



# Virginia APCD MedInsight Health Waste Calculator Results version 2.0

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## Background and Report Summary

### **About the Virginia APCD:**

The Virginia All Payer Claims Database (APCD) was established to facilitate data-driven, evidence-based improvements in the access, quality and cost of health care and to promote and improve public health through the understanding of health care expenditure patterns and the operation and performance of the health care system. Virginia's APCD is a voluntary program with specific requirements of participating data submitters and certain restrictions on how the de-identified data may be used. Virginia's APCD was created under the authority of the Virginia Department of Health. The program is operated by VHI as a collaborative effort with health care stakeholders who provide input through the Virginia APCD Advisory Committee.

The Virginia APCD currently includes paid claims data for approximately 4.1 million Virginia Residents. VHI estimates that approximately 65% of the Commonwealth's commercially-insured residents are represented in the Virginia APCD. Medicare Fee-for-Service Claims Data was included in this set of APCD Health Waste Calculator reports for a total of approximately 5.5 million Virginians.

The Virginia APCD consists of medical and pharmacy claims submitted by commercial and public insurance carriers. Health insurance carriers submit paid claims data for services provided to privately-insured individuals and individuals covered under self-funded group health plans in the Commonwealth.

These records include paid claims from institutional encounters (hospital, surgery centers, etc.), medical professional services (such as doctor visits and imaging), pharmacy and other services. Data submitted to the Virginia APCD by medical insurance carriers includes claims from administrators of "carved-out" services such as pharmacy and mental health/chemical dependency. The database also contains records about individual plan members (e.g., demographics and enrollment), providers and insurance products (e.g., product type and coverage type).

The Virginia APCD includes data on coverage and services for the majority of commercially-insured Virginia residents as well as those with public or private Medicaid insurance. It also includes data from both health insurance carriers and third-party administrators. The following kinds of coverage are excluded at this time:

- Workers' Compensation
- TRICARE and the Veterans Health Administration and
- Federal Employees Health Benefit Plan

## **MedInsight Health Waste Calculator:**

### **Overview:**

The MedInsight Health Waste Calculator is an analytical tool that provides actionable data to support healthcare quality, efficiency and effectiveness reporting. The calculator brings together clinical expertise and powerful data analytics, allowing health care managers to target and reduce wasteful spending.

Comprehensive measures are developed and constantly refined to provide the most innovative and up-to-date healthcare analytics by Milliman healthcare experts and partners at VBID Health, Mike Chernew and Mark Fendrick, MD.

The sources leveraged for measures include:

- Choosing Wisely (from the ABIM Foundation)
- US Preventive Services Task Force Grade D Recommendations (recommendations against the service), for which there is moderate to high certainty that the service has no net benefit or that the harms outweigh the benefits
- The American Medical Association's Physician Consortium for Performance Improvement
- The United Kingdom's National Institute for Health and Care Excellence (NICE) Recommendations on High Quality Care
- Numerous research endeavors, such as these recent publications:
  - *Mayo Clinic Proceedings* publication on "A Decade of Reversal: An Analysis of 146 Contradicted Medical Practices"
  - Johns Hopkins Medicine research report on imaging for severe dizziness in the ER
  - *Pediatrics*, "CT Scan Utilization Patterns in Pediatric Patients with Recurrent Headache"

### **Health Waste Calculator Value:**

Eliminating inefficient and unnecessary medical services improves overall healthcare efficiency while reducing costs. The Health Waste Calculator is effective at identifying potentially unnecessary care and potential cost savings. The Congressional Budget Office has estimated that 30% of medical care in the U.S. is unnecessary care. In 2009, the Institute of Medicine (IOM) identified \$750 billion of wasted spending, with unnecessary services accounting for \$210 billion ([iom.edu/bestcare](http://iom.edu/bestcare)).

### The MedInsight Health Waste Calculator:

- Adds value to existing publicly available cost and quality reporting efforts;
- Denotes whether services were appropriate or potentially wasteful;
- Indicates which services should be reviewed and flags potentially wasteful spending;
- Improves reporting for efficiency and effectiveness measurement.

In addition, Milliman and VBID health have established a research pipeline to continually investigate new wasteful services and look to rapidly expand the range of wasteful services included in this product offering.

### Rationale for Developing the Measures:

Milliman and VBID Health continue to research and add to the growing list of over 450 measures in their research pipeline. Each are striving to identify at least 2 measures per medical society. In general the prioritization of measures are based on the criteria listed below:

- High prevalence rate or incidence of the wasteful events as reported in different publications;
- High cost impact due to the wasteful events;
- Representation of different specialties or clinical conditions;
- Representation of different types of services (e.g., preventive screening tests and diagnostic tests and prescription of drugs); and
- Representation of relevant measures for different age groups (children, adults, elderly, or all population), as well as gender-specific measures.

### Health Waste Calculator Research Team Background:

The Waste Calculator Research team has incorporated health care data into related measure development for over five years. The scope of their work in measure development includes:

- Validation of the industry based literature on measure criteria;
- Identification of topics for new measures;
- Production of measures for not only the WC product but also for HEDIS like measures of compliance and noncompliance to healthcare industry best practices; And
- Production of normative measures and benchmarks.

The research team created the Waste Calculator methodology to include the algorithms for handling multiple ICD-9 Diagnosis and Procedure codes, HCPCS and Revenue codes.

## **Waste Categories and Rule Descriptions:**

### *Definitions:*

**Waste Measure Rule-** Brief description of the waste measure.

**Population Age-** Indicates the age criteria of the eligible population. For example Adults <65, Pediatric, Medicare, all ages etc.

**Root Cause** - Indicates if the measure can be categorized as an Overtreatment/ Medically unnecessary disease screening/Failure of care delivery/Failure of care coordination/Triggers to Profile Providers/Miscellaneous (for measures that cannot be categorized into any Root Cause type).

- Failure of Care Coordination includes -i. Case Management and Disease Management related/managed services that wasteful ii. Duplicate services/testing
- “Overtreatment” includes - Medically unnecessary treatment/testing for patients with specific conditions
- “Failure of Care Delivery” – Typically implies lack of or inadequate treatment/testing
- “Triggers to Profile Providers” - Potentially fraud and abuse triggers
- “Miscellaneous” – Doesn’t fall into one of these buckets

**CW Topic Themes-** "Includes the Choosing Wisely Themes under 6 main categories -

1. Screening Tests
2. Diagnostic Testing
3. Preoperative evaluation
4. Common Treatments
5. Routine FU/Monitoring
6. Disease Approach



Waste Measure Rule	Population Age	Root Cause	CW Topic Themes
Don't perform population based screening for 25-OH-Vitamin D deficiency	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	Adults <65 & Pediatric	Overtreatment	Common Treatments
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	All ages	Overtreatment	Common Treatments
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	Adults <65	Overtreatment	Disease Approach
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	Adults <65	Overtreatment	Disease Approach
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	Medicare	Medically unnecessary disease screening	Screening Tests
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	Medicare	Medically unnecessary disease screening	Screening Tests
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	Adults <65	Overtreatment	Diagnostic Testing
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	Pediatric	Overtreatment	Common Treatments
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	All ages	Overtreatment	Diagnostic Testing

Waste Short Description	Population Age	Root Cause	CW Topic Themes
Don't perform computed tomography scans on children being treated for headache.	Pediatric	Overtreatment	Diagnostic Testing
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't routinely do diagnostic testing in patients with chronic urticaria.	All ages	Overtreatment	Diagnostic Testing
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	Adults <65	Overtreatment	Routine FU/Monitoring
Don't perform routine head CT scans for emergency room visits for severe dizziness.	Adults <65	Overtreatment	Diagnostic Testing
Don't perform electroencephalography (EEG) for headaches.	All ages	Overtreatment	Diagnostic Testing
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't do imaging for uncomplicated headache.	Adults <65	Overtreatment	Diagnostic Testing
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	Adults <65	Overtreatment	Diagnostic Testing
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	All ages	Overtreatment	Diagnostic Testing

Waste Short Description	Population Age	Root Cause	CW Topic Themes
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	Adults <65	Failure of care coordination	Disease Approach
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	Adults <65	Overtreatment	Diagnostic Testing
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	Adults <65	Medically unnecessary disease screening	Routine FU/Monitoring
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	Pediatric	Overtreatment	Diagnostic Testing
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDS) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	Adults <65	Overtreatment	Disease Approach
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	All ages	Overtreatment	Common Treatments
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	Adults <65	Overtreatment	Common Treatments
Don't perform Pap smears on women with previous hysterectomy	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't perform Pap smears on women younger than 21	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't perform a postcoital test (PCT) for the evaluation of infertility.	Adults <67	Medically unnecessary disease screening	Diagnostic Testing

Waste Short Description	Population Age	Root Cause	CW Topic Themes
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	Adults <65	Medically unnecessary disease screening	Preoperative evaluation
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	Adults <65	Medically unnecessary disease screening	Preoperative evaluation
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	Adults <65	Medically unnecessary disease screening	Preoperative evaluation
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	All ages	Medically unnecessary disease screening	Screening Tests
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	Adults <65 & Pediatric	Overtreatment	Diagnostic Testing
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	Adults <65	Overtreatment	Routine FU/Monitoring
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	Adults <65	Overtreatment	Diagnostic Testing
Don't perform routine annual stress testing after coronary artery revascularization.	Adults <65	Medically unnecessary disease screening	Routine FU/Monitoring
Don't perform routine general health checks for asymptomatic adults	Adults <65	Medically unnecessary disease screening	Screening Tests

Waste Short Description	Population Age	Root Cause	CW Topic Themes
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	Adults <65	Medically unnecessary disease screening	Screening Tests
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	Adults <66	Medically unnecessary disease screening	Diagnostic Testing
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	Adults <65	Medically unnecessary disease screening	Diagnostic Testing
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	Adults <65	Overtreatment	Diagnostic Testing

## **Report Caveats:**

- Standardized Proxy Reimbursement Amount: Virginia Code prohibits disclosing or reporting provider-specific, facility-specific or carrier-specific reimbursement information. Information capable of being reverse-engineered, combined or otherwise used to calculate or derive such reimbursement information from the APCD is also prohibited. To comply with the legal prohibition of disclosing reimbursement information, a standardized proxy reimbursement amount was utilized for these reports generated from the Virginia APCD. All dollar amounts referenced in these reports are proxy dollars based on Milliman's Global RVU methodology.
- The output of the Health Waste Calculator is subject to the quality of the necessary inputs within Virginia APCD claims data. Lack of accurate Procedure and Diagnosis codes on the individual claims analyzed may cause some services that were potentially or definitively wasteful to be classified as necessary and vice versa.
- All ACO Rating Areas are grouped according to CMS guidelines. Each Rating Area corresponds to the equivalent Metropolitan Statistical Areas (MSAs) name, number and composition for Virginia with the exception of ACO Rating Area 12. Rating Area 12 consists of the following remaining lower population cities and counties: Accomack, Alleghany, Augusta, Bath, Bland, Brunswick, Buchanan, Buckingham, Carroll, Charlotte, Culpeper, Dickenson, Essex, Floyd, Grayson, Greensville, Halifax, Henry, Highland, King George, Lancaster, Lee, Lunenburg, Madison, Mecklenburg, Middlesex, Northampton, Northumberland, Nottoway, Orange, Page, Patrick, Prince Edward, Rappahannock, Richmond County, Rockbridge, Russell, Shenandoah, Smyth, Southampton, Tazewell, Westmoreland, Wise, Wythe, Buena Vista City, Covington City, Emporia City, Franklin City, Galax City, Lexington City, Martinsville City, Norton City, Staunton City and Waynesboro City.
- For privacy reasons, no calculations that resulted in less than 11 observations are displayed within each report. In each of these cases the number of observations for Likely Wasteful and Wasteful results were suppressed as well as the average proxy cost for each category. In the event that an individual Waste Likelihood category contained only 1 suppressed value, the total was adjusted to reflect a range of  $\pm 1$  to prevent the potential reverse engineering of the suppressed value.
- Medicare data could not be broken out individually by geographic region or individual waste measure at the time of this report.

## **Report Definitions:**

**Waste Measure Rule-** The type of service evaluated by the Health Waste Calculator with results defined as either Necessary or Wasteful. Waste Measure Rules also briefly outline the criteria for a potentially unnecessary service.

**Total Services Measured-** The total number of services that were evaluated for a specific Waste Measure.

**Percent of all Services-** The total number of services measured for each Waste Measures divided by the overall total number of services measured within each report

**Services Measured per 1,000** - The total number of services measured for each Waste Measure divided by the number of members encompassed within each report divided by 1,000

**Wasteful Services-** The total number of services that meet the necessary criteria outlined in the Waste Calculator methodology to be classified as Wasteful.

**Wasteful Services per 1000-** The number of wasteful services measured for each Waste Measure divided by the number of members encompassed within each report divided by 1,000

**Wasteful Total Proxy Allowed Costs-** The total number of proxy allowed dollars associated with claims classified as Wasteful.

**Wasteful Average Proxy Allowed Costs-** The total number of proxy allowed dollars associated with claims classified as Wasteful divided by the total number of services classified as Wasteful.

**Percent of Waste Proxy Allowed Costs** – The total number of wasteful proxy allowed dollars for each Waste Measure divided by the overall total wasteful proxy dollars measured within each report

**Quality Index-** The number of services classified as Necessary divided by the total number of services measured.

**Waste Index-** The number of services classified as either Wasteful divided by the total number of services measured.

**Waste Calculator Results Summaries:**

Overall Results Summary			
	2013	2014	% Change
Total Services Measured	5,130,182	4,742,659	-7.55%
Total Wasteful Services	1,729,275	1,686,225	-2.49%
Total Dollars Measured	\$26,863,228,292	\$27,297,155,499	1.62%
Total Wasteful Dollars	\$640,738,381	\$654,693,295	2.18%
Total Members Examined	5,514,720	5,603,979	1.62%
Total Per Member Per Month	\$492.65	\$497.75	1.03%
Waste Per Member Per Month	\$11.75	\$11.94	1.59%
Percent of Total Members having at least one Wasteful Service	20.40%	19.70%	-3.43%

Commercial Results Summary			
	2013	2014	% Change
Total Services Measured	2,067,137	2,117,873	2%
Total Wasteful Services	991,146	1,022,512	3%
Total Dollars Measured	\$9,410,067,055	\$10,315,271,020	10%
Total Wasteful Dollars	\$322,927,129	\$339,021,955	5%
Total Members Examined	2,874,258	2,952,048	3%
Total Per Member Per Month	\$356.37	\$389.12	9%
Waste Per Member Per Month	\$12.23	\$12.79	5%
Percent of Total Members having at least one Wasteful Service	23.06%	23.10%	0%



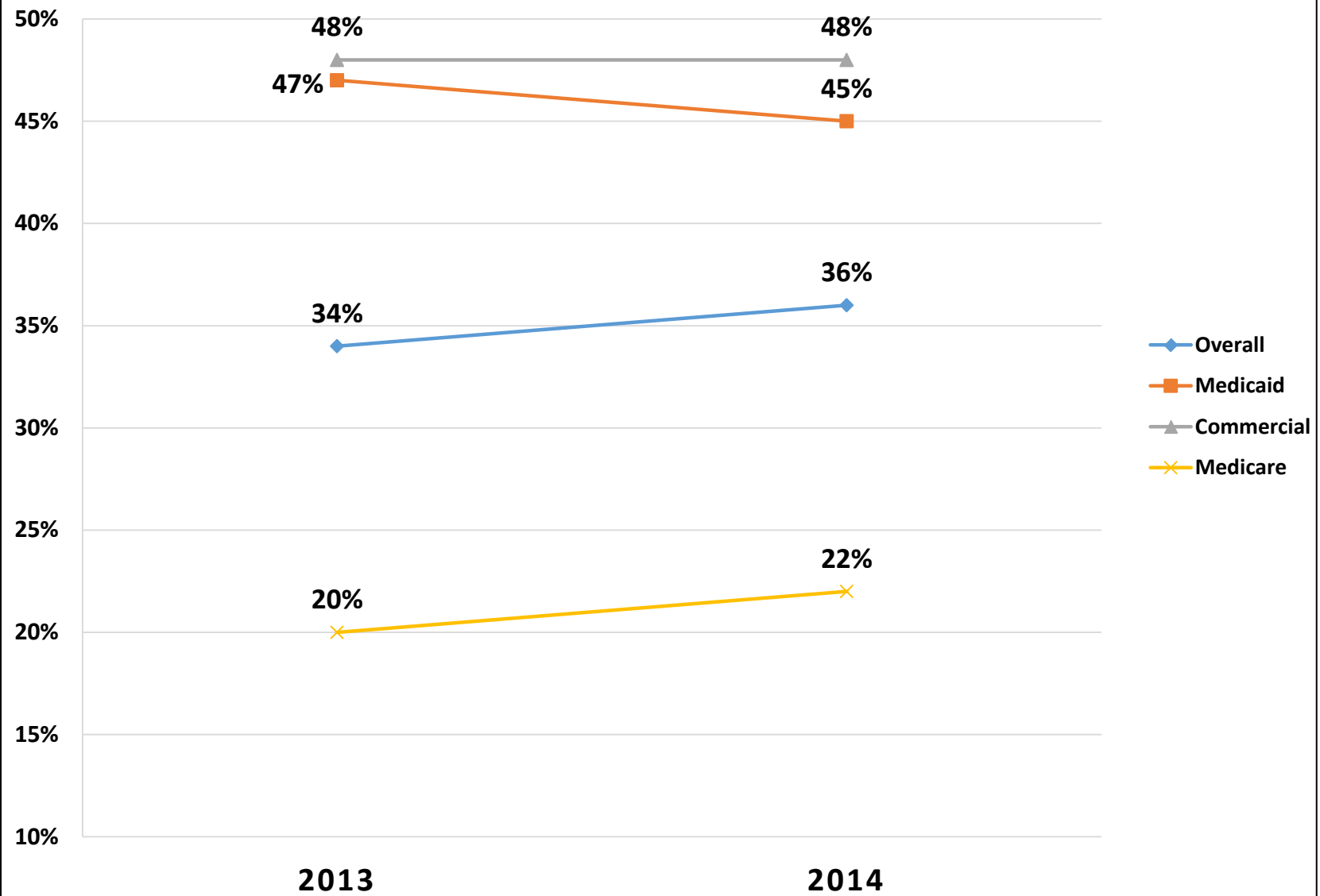
## Medicaid Results Summary

	2013	2014	% Change
<b>Total Services Measured</b>	468,889	412,295	-12%
<b>Total Wasteful Services</b>	220,127	184,996	-16%
<b>Total Dollars Measured</b>	\$5,345,190,979	\$4,830,854,442	-10%
<b>Total Wasteful Dollars</b>	\$59,321,738	\$65,481,555	10%
<b>Total Members Examined</b>	1,302,416	1,273,061	-2%
<b>Total Per Member Per Month</b>	\$415.00	\$383.72	-8%
<b>Waste Per Member Per Month</b>	\$4.61	\$5.20	13%
<b>Percent of Total Members having at least one Wasteful Service</b>	11.45%	9.86%	-14%

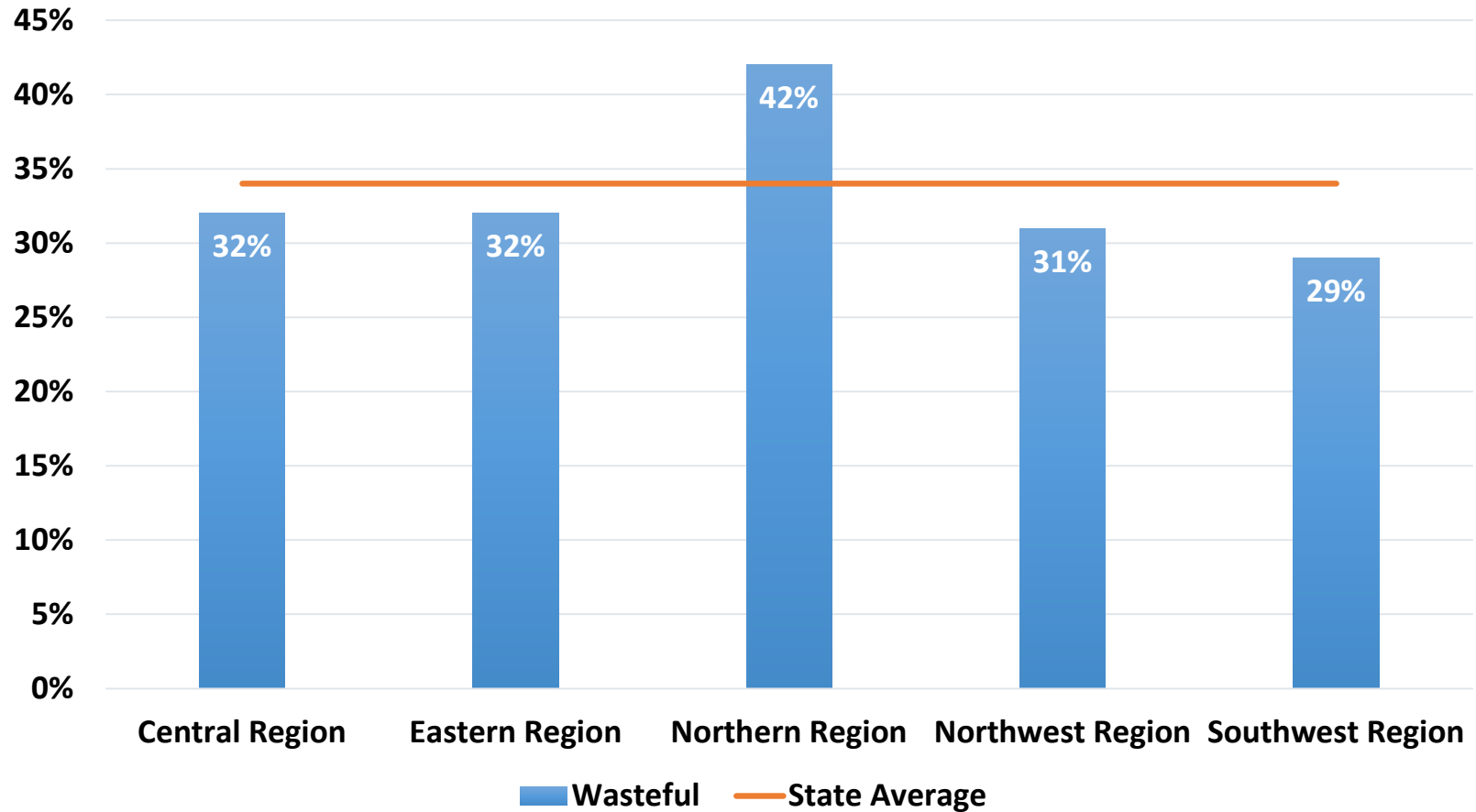
## Medicare Results Summary

	2013	2014	% Change
<b>Total Services Measured</b>	2,594,156	2,212,491	-15%
<b>Total Wasteful Services</b>	518,002	478,717	-8%
<b>Total Dollars Measured</b>	\$12,107,970,25	\$12,151,030,037	0%
<b>Total Wasteful Dollars</b>	\$258,489,514	\$250,189,785	-3%
<b>Total Members Examined</b>	1,338,046	1,378,870	3%
<b>Total Per Member Per Month</b>	\$794.36	\$771.87	-3%
<b>Waste Per Member Per Month</b>	\$16.96	\$15.89	-6%
<b>Percent of Total Members having at least one Wasteful Service</b>	22.00%	20.00%	-9%

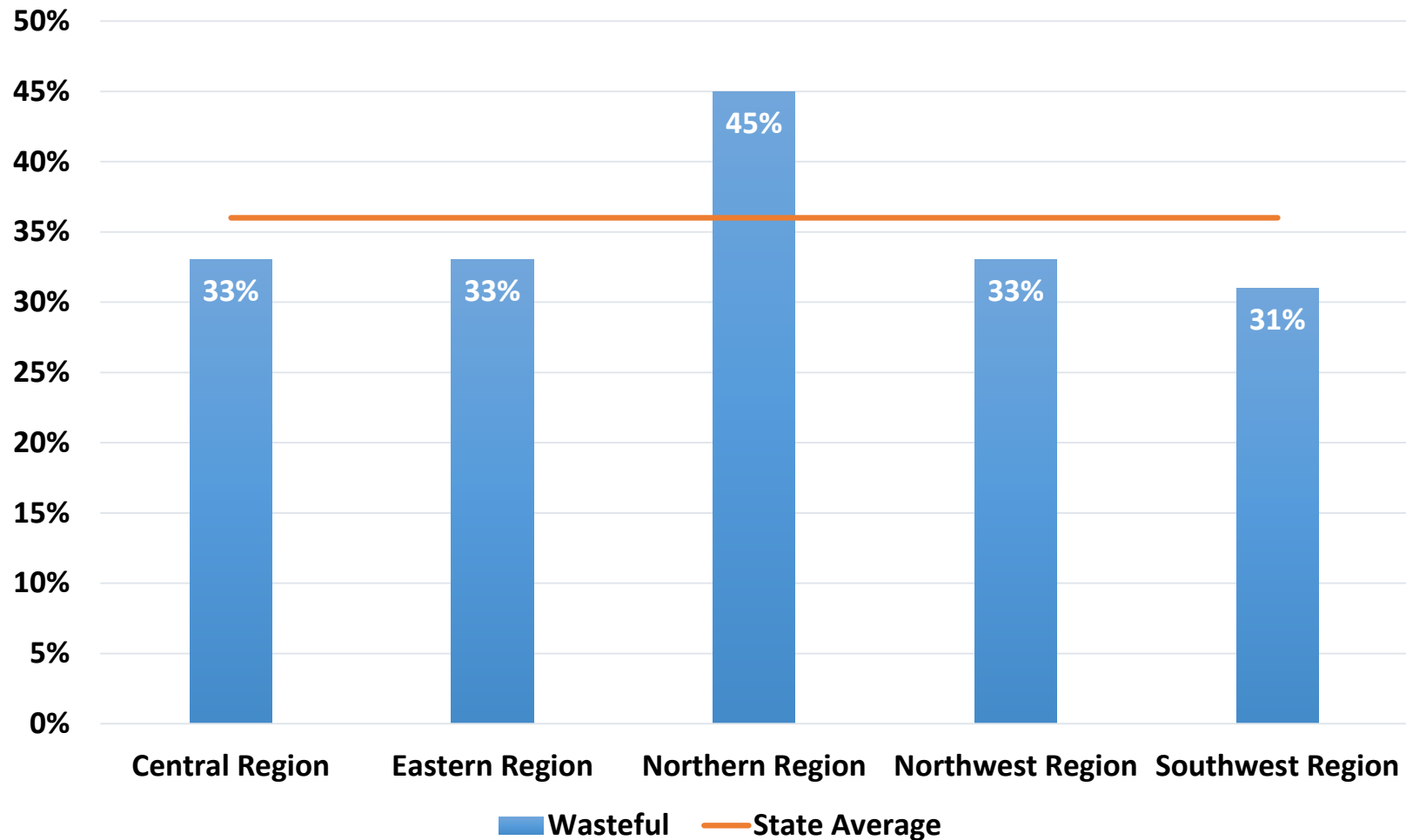
## WASTE INDEX BY INSURANCE TYPE



## 2013 WASTE INDEX BY REGION



## 2014 Waste Index by Region





## Top 5 Wasteful Services by Proxy Cost for 2014

2014 Statewide Total Wasteful Services				
Waste Rule	Total Proxy Cost	% of Wasteful Dollars	Frequency	% of Wasteful Services
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	\$184,781,018	28%	453,447	27%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	\$94,669,595	14%	27,817	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	\$60,499,386	9%	147,423	9%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	\$37,558,707	6%	161,539	10%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	\$31,501,675	5%	132,793	8%

2014 Statewide Commerical Wasteful Services				
Waste Rule	Total Proxy Cost	% of Wasteful Dollars	Frequency	% of Wasteful Services
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	\$64,469,416	19%	154,854	15%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	\$44,272,863	13%	129,729	13%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	\$34,125,067	10%	141,984	14%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	\$27,373,460	8%	9,169	1%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	\$21,552,272	6%	31,299	3%



## Top 5 Wasteful Services by Proxy Cost for 2014 Continued

2014 Statewide Medicaid Wasteful Services				
Waste Rule	Total Proxy Cost	% of Wasteful Dollars	Frequency	% of Wasteful Services
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	\$22,314,690	34%	36,856	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	\$9,878,635	15%	18,712	6%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	\$7,463,091	11%	13,658	13%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	\$4,541,539	7%	5,704	8%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	\$3,395,512	5%	3,376	10%

## Top 5 Wasteful Services by Proxy Cost for 2013

2013 Statewide Total Wasteful Services				
Waste Rule	Total Proxy Cost	% of Wasteful Dollars	Frequency	% of Wasteful Services
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	\$181,066,684	28%	485,367	28%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	\$91,328,343	14%	26,885	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	\$53,115,641	8%	129,275	7%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	\$35,810,934	6%	172,645	10%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	\$31,636,024	5%	139,222	8%

2013 Statewide Commerical Wasteful Services				
Waste Rule	Total Proxy Cost	% of Wasteful Dollars	Frequency	% of Wasteful Services
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	\$61,664,129	19%	160,314	16%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	\$36,804,163	11%	110,027	11%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	\$33,597,766	10%	148,250	15%
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	\$28,250,289	9%	150,987	15%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	\$25,052,963	8%	8,487	1%



## Top 5 Wasteful Services by Proxy Cost for 2013 Continued

2013 Statewide Medicaid Wasteful Services				
Waste Rule	Total Proxy Cost	% of Wasteful Dollars	Frequency	% of Wasteful Services
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	\$20,101,112	34%	3,073	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	\$9,184,816	15%	12,275	6%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	\$6,139,033	10%	29,292	13%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDS) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	\$4,374,147	7%	15,904	7%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	\$2,529,765	4%	2,593	1%





## 2014 Statewide Wasteful Services- Total

Waste Measure Rule				Total Wasteful Results						
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs	Quality Index	Waste Index
<b>Common Treatments</b>	<b>238,049</b>	<b>5.0%</b>	<b>44.36</b>	<b>229,809</b>	<b>42.83</b>	<b>\$23,475,373.00</b>	<b>\$102.15</b>	<b>3.6%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	189,171	4.0%	35.25	181,559	33.84	\$22,438,374.75	\$123.59	3.4%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	277	0.0%	0.05	252	0.05	\$30,016.95	\$119.11	0.0%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	5,409	0.1%	1.01	4,806	0.90	\$616,301.29	\$128.24	0.1%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	87	0.0%	0.02	87	0.02	\$15,075.03	\$173.28	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	43,105	0.9%	8.03	43,105	8.03	\$375,605.47	\$8.71	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>395,299</b>	<b>8.3%</b>	<b>73.67</b>	<b>131,103</b>	<b>24.43</b>	<b>\$197,882,153.00</b>	<b>\$1,509.36</b>	<b>30.2%</b>	<b>67%</b>	<b>33%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	49,341	1.0%	9.20	43,063	8.03	\$17,169,583.24	\$398.71	2.6%	13%	87%
Don't do imaging for uncomplicated headache.	33,801	0.7%	6.30	11,388	2.12	\$12,399,682.97	\$1,088.84	1.9%	66%	34%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	2,790	0.1%	0.52	2,723	0.51	\$3,860,287.00	\$1,417.66	0.6%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	5,027	0.1%	0.94	1,970	0.37	\$8,503,587.69	\$4,316.54	1.3%	61%	39%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	51	0.0%	0.01	51	0.01	\$4,858.62	\$95.27	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	119	0.0%	0.02	119	0.02	\$22,979.75	\$193.11	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	3,831	0.1%	0.71	2,073	0.39	\$2,072,796.95	\$999.90	0.3%	46%	54%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	8,795	0.2%	1.64	3,371	0.63	\$5,000,483.10	\$1,483.38	0.8%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	219,878	4.6%	40.98	27,817	5.18	\$94,669,595.48	\$3,403.30	14.5%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	22,237	0.5%	4.14	11,289	2.10	\$7,401,632.05	\$655.65	1.1%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	703	0.0%	0.13	703	0.13	\$712,692.60	\$1,013.79	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	13,728	0.3%	2.56	7,342	1.37	\$16,956,661.83	\$2,309.54	2.6%	47%	53%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	38	0.0%	0.01	38	0.01	\$42,380.14	\$1,115.27	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	1,834	0.0%	0.34	1,834	0.34	\$2,882,526.15	\$1,571.72	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	3,789	0.1%	0.71	1571	0.29	\$1,454,242.89	\$925.68	0.2%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	41	0.0%	0.01	41	0.01	\$41,290.35	\$1,007.08	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	29,296	0.6%	5.46	15,710	2.93	\$24,686,872.20	\$1,571.41	3.8%	46%	54%
<b>Disease Approach</b>	<b>69,962</b>	<b>1.5%</b>	<b>13.04</b>	<b>53,840</b>	<b>10.03</b>	<b>\$29,646,476.00</b>	<b>\$550.64</b>	<b>4.5%</b>	<b>23%</b>	<b>77%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	495	0.0%	0.09	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	557	0.0%	0.10	557	0.10	\$1,516,294.79	\$2,722.25	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	3,958	0.1%	0.74	3,958	0.74	\$1,007,855.28	\$254.64	0.2%	0%	100%

Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	64,952	1.4%	12.10	49,325	9.19	\$27,122,325.45	\$549.87	4.1%	24%	76%
<b>Preoperative evaluation</b>	<b>605,212</b>	<b>12.8%</b>	<b>112.79</b>	<b>486,746</b>	<b>90.71</b>	<b>\$199,246,357.00</b>	<b>\$409.34</b>	<b>30.4%</b>	<b>20%</b>	<b>80%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	526	0.0%	0.10	523	0.10	\$293,800.45	\$561.76	0.0%	1%	99%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	571,600	12.1%	106.52	453,447	84.50	\$184,781,018.18	\$407.50	28.2%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	33,086	0.7%	6.17	32,776	6.11	\$14,171,538.37	\$432.38	2.2%	1%	99%
<b>Routine FU/Monitoring</b>	<b>67,272</b>	<b>1.4%</b>	<b>12.54</b>	<b>9,300</b>	<b>1.73</b>	<b>\$14,639,283.00</b>	<b>\$1,574.12</b>	<b>2.2%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	31,603	0.7%	5.89	1,001	0.19	\$1,345,021.49	\$1,343.68	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	893	0.0%	0.17	893	0.17	\$694,663.23	\$777.90	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	6,731	0.1%	1.25	1,187	0.22	\$1,600,967.49	\$1,348.75	0.2%	82%	18%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	28,045	0.6%	5.23	6,219	1.16	\$10,998,631.12	\$1,768.55	1.7%	78%	22%
<b>Screening Tests</b>	<b>3,366,865</b>	<b>71.0%</b>	<b>627.45</b>	<b>775,427</b>	<b>144.51</b>	<b>\$189,803,653.00</b>	<b>\$244.77</b>	<b>29.0%</b>	<b>77%</b>	<b>23%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	77,253	1.6%	14.40	622	0.12	\$449,845.87	\$723.22	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	2,268,194	47.8%	422.70	147,423	27.47	\$60,499,385.50	\$410.38	9.2%	94%	6%
Don't perform Pap smears on women with previous hysterectomy	3,610	0.1%	0.67	1,432	0.27	\$364,850.63	\$254.78	0.1%	60%	40%
Don't perform Pap smears on women younger than 21	3,702	0.1%	0.69	3,226	0.60	\$719,024.21	\$222.88	0.1%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	173,381	3.7%	32.31	173,381	32.31	\$23,821,569.35	\$137.39	3.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	199,865	4.2%	37.25	161,539	30.10	\$37,558,706.76	\$232.51	5.7%	19%	81%
Don't perform routine general health checks for asymptomatic adults	83,624	1.8%	15.58	83,624	15.58	\$16,609,693.81	\$198.62	2.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	25,416	0.5%	4.74	25,416	4.74	\$2,657,302.40	\$104.55	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	77,073	1.6%	14.36	13,438	2.50	\$3,095,111.53	\$230.33	0.5%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	141,736	3.0%	26.41	32,533	6.06	\$12,526,488.36	\$385.04	1.9%	77%	23%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	313,011	6.6%	58.33	132,793	24.75	\$31,501,675.06	\$237.22	4.8%	58%	42%
<b>Grand Total</b>	<b>4,742,659</b>	<b>100.0%</b>	<b>883.84</b>	<b>1,686,225</b>	<b>314.24</b>	<b>\$654,693,295.83</b>	<b>\$388.26</b>	<b>100.0%</b>	<b>64%</b>	<b>36%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2014 Statewide Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results						
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs	Quality Index	Waste Index
<b>Common Treatments</b>	<b>154,967</b>	<b>7.3%</b>	<b>57.13</b>	<b>150,199</b>	<b>55.37</b>	<b>\$19,351,787.00</b>	<b>\$128.84</b>	<b>5.7%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	146,993	6.9%	54.19	142,626	52.58	\$18,755,230.81	\$131.50	5.5%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	153	0.0%	0.06	139	0.05	\$21,701.55	\$156.13	0.0%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	3,873	0.2%	1.43	3,486	1.29	\$480,024.21	\$137.70	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	37	0.0%	0.01	37	0.01	\$4,223.13	\$114.14	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	3,911	0.2%	1.44	3,911	1.44	\$90,606.94	\$23.17	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>141,463</b>	<b>6.7%</b>	<b>52.15</b>	<b>60,404</b>	<b>22.27</b>	<b>\$78,929,724.00</b>	<b>\$1,306.70</b>	<b>23.3%</b>	<b>57%</b>	<b>43%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	26,715	1.3%	9.85	24,754	9.13	\$10,172,875.14	\$410.96	3.0%	7%	93%
Don't do imaging for uncomplicated headache.	15,393	0.7%	5.67	6,840	2.52	\$9,282,411.15	\$1,357.08	2.7%	56%	44%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	1,021	0.0%	0.38	1,004	0.37	\$2,162,898.38	\$2,154.28	0.6%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	891	0.0%	0.33	484	0.18	\$2,048,674.89	\$4,232.80	0.6%	46%	54%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	51	0.0%	0.02	51	0.02	\$4,858.62	\$95.27	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	119	0.0%	0.04	119	0.04	\$22,979.75	\$193.11	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,655	0.1%	0.61	1,007	0.37	\$1,139,444.24	\$1,131.52	0.3%	39%	61%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,083	0.1%	0.77	812	0.30	\$1,547,619.17	\$1,905.93	0.5%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	64,171	3.0%	23.66	9,169	3.38	\$27,373,460.36	\$2,985.44	8.1%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	12,840	0.6%	4.73	6,412	2.36	\$3,976,716.11	\$620.20	1.2%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	463	0.0%	0.17	463	0.17	\$438,897.25	\$947.94	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	6,037	0.3%	2.23	3,046	1.12	\$6,435,645.39	\$2,112.82	1.9%	50%	50%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	11	0.0%	0.00	11	0.00	\$9,437.66	\$857.97	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	727	0.0%	0.27	727	0.27	\$1,679,898.29	\$2,310.73	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	1,406	0.1%	0.52	541	0.20	\$731,098.16	\$1,351.38	0.2%	62%	38%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	11	0.0%	0.00	11	0.00	\$20,308.51	\$1,846.23	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	7,869	0.4%	2.90	4,953	1.83	\$11,882,501.14	\$2,399.05	3.5%	37%	63%
<b>Disease Approach</b>	<b>39,272</b>	<b>1.9%</b>	<b>14.48</b>	<b>33,588</b>	<b>12.38</b>	<b>\$23,286,980.00</b>	<b>\$693.31</b>	<b>6.9%</b>	<b>14%</b>	<b>86%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	292	0.0%	0.11	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	373	0.0%	0.14	373	0.14	\$1,196,146.28	\$3,206.83	0.4%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	1,916	0.1%	0.71	1,916	0.71	\$538,562.17	\$281.09	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	36,691	1.7%	13.53	31,299	11.54	\$21,552,271.84	\$688.59	6.4%	15%	85%
<b>Preoperative evaluation</b>	<b>209,398</b>	<b>9.9%</b>	<b>77.20</b>	<b>172,613</b>	<b>63.64</b>	<b>\$71,352,402.00</b>	<b>\$413.37</b>	<b>21.0%</b>	<b>18%</b>	<b>82%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	296	0.0%	0.11	296	0.11	\$195,778.94	\$661.42	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	191,639	9.0%	70.65	154,854	57.09	\$64,469,416.08	\$416.32	19.0%	19%	81%

Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	17,463	0.8%	6.44	17,463	6.44	\$6,687,207.20	\$382.94	2.0%	0%	100%
<b>Routine FU/Monitoring</b>	<b>15,875</b>	<b>0.7%</b>	<b>5.85</b>	<b>2,887</b>	<b>1.06</b>	<b>\$3,851,413.00</b>	<b>\$1,334.05</b>	<b>1.1%</b>	<b>82%</b>	<b>18%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,409	0.3%	2.36	311	0.11	\$397,150.77	\$1,277.01	0.1%	95%	5%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	319	0.0%	0.12	319	0.12	\$292,511.78	\$916.96	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,882	0.1%	0.69	420	0.15	\$301,959.45	\$718.95	0.1%	78%	22%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	7,265	0.3%	2.68	1,837	0.68	\$2,859,790.55	\$1,556.77	0.8%	75%	25%
<b>Screening Tests</b>	<b>1,556,898</b>	<b>73.5%</b>	<b>573.97</b>	<b>602,821</b>	<b>222.24</b>	<b>\$142,249,650.00</b>	<b>\$235.97</b>	<b>42.0%</b>	<b>61%</b>	<b>39%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	29,123	1.4%	10.74	450	0.17	\$251,856.12	\$559.68	0.1%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	888,420	41.9%	327.53	129,729	47.83	\$44,272,863.37	\$341.27	13.1%	85%	15%
Don't perform Pap smears on women with previous hysterectomy	2,045	0.1%	0.75	1,127	0.42	\$308,462.82	\$273.70	0.1%	45%	55%
Don't perform Pap smears on women younger than 21	2,500	0.1%	0.92	2,186	0.81	\$545,097.19	\$249.36	0.2%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	142,288	6.7%	52.46	142,288	52.46	\$20,262,229.05	\$142.40	6.0%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	174,118	8.2%	64.19	141,984	52.34	\$34,125,066.85	\$240.34	10.1%	18%	82%
Don't perform routine general health checks for asymptomatic adults	80,390	3.8%	29.64	80,390	29.64	\$16,228,221.79	\$201.87	4.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	3,146	0.1%	1.16	3,146	1.16	\$421,642.92	\$134.03	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	27,859	1.3%	10.27	7,545	2.78	\$1,923,143.73	\$254.89	0.6%	73%	27%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	75,579	3.6%	27.86	8,983	3.31	\$2,703,758.76	\$300.99	0.8%	88%	12%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	131,430	6.2%	48.45	84,993	31.33	\$21,207,306.90	\$249.52	6.3%	35%	65%
<b>Grand Total</b>	<b>2,117,873</b>	<b>100.0%</b>	<b>780.78</b>	<b>1,022,512</b>	<b>376.96</b>	<b>\$339,021,955.41</b>	<b>\$331.56</b>	<b>100.0%</b>	<b>52%</b>	<b>48%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2014 Statewide Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>79,698</b>	<b>19.3%</b>	<b>62.53</b>	<b>76,345</b>	<b>59.90</b>	<b>\$3,736,586.00</b>	<b>\$48.94</b>	<b>5.7%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	38,882	9.4%	30.51	35,730	28.03	\$3,304,452.84	\$92.48	5.0%	8%	92%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	124	0.0%	0.10	113	0.09	\$8,315.40	\$73.59	0.0%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,448	0.4%	1.14	1,258	0.99	\$127,966.99	\$101.72	0.2%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	50	0.0%	0.04	50	0.04	\$10,851.90	\$217.04	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	39,194	9.5%	30.75	39,194	30.75	\$284,998.53	\$7.27	0.4%	0%	100%
<b>Diagnostic Testing</b>	<b>47,294</b>	<b>11.5%</b>	<b>37.11</b>	<b>16,974</b>	<b>13.32</b>	<b>\$32,828,518.00</b>	<b>\$1,934.05</b>	<b>50.1%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	3,665	0.9%	2.88	3,328	2.61	\$1,527,963.50	\$459.12	2.3%	9%	91%
Don't do imaging for uncomplicated headache.	7,314	1.8%	5.74	3,182	2.50	\$1,770,659.77	\$556.46	2.7%	56%	44%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	409	0.1%	0.32	405	0.32	\$289,547.73	\$714.93	0.4%	1%	99%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	388	0.1%	0.30	204	0.16	\$697,303.70	\$3,418.16	1.1%	47%	53%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	1,024	0.2%	0.80	420	0.33	\$164,760.67	\$392.29	0.3%	59%	41%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	544	0.1%	0.43	193	0.15	\$200,343.92	\$1,038.05	0.3%	65%	35%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	21,680	5.3%	17.01	3,330	2.61	\$22,314,690.43	\$6,701.11	34.1%	85%	15%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,442	0.8%	2.70	577	0.45	\$268,709.93	\$465.70	0.4%	83%	17%
Don't routinely do diagnostic testing in patients with chronic urticaria.	82	0.0%	0.06	82	0.06	\$60,599.47	\$739.02	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,898	0.5%	1.49	1,081	0.85	\$1,814,396.80	\$1,678.44	2.8%	43%	57%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	695	0.2%	0.55	695	0.55	\$614,308.11	\$883.90	0.9%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	2,382	0.6%	1.87	1030	0.81	\$723,144.73	\$702.08	1.1%	57%	43%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	30	0.0%	0.02	30	0.02	\$20,981.84	\$699.39	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	3,741	0.9%	2.94	2,417	1.90	\$2,361,107.00	\$976.88	3.6%	35%	65%
<b>Disease Approach</b>	<b>26,831</b>	<b>6.5%</b>	<b>21.05</b>	<b>16,687</b>	<b>13.09</b>	<b>\$5,012,772.00</b>	<b>\$300.40</b>	<b>7.7%</b>	<b>38%</b>	<b>62%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	201	0.0%	0.16	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	44	0.0%	0.03	44	0.03	\$42,500.11	\$965.91	0.1%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	1,918	0.5%	1.50	1,918	1.50	\$428,732.15	\$223.53	0.7%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	24,668	6.0%	19.35	14,725	11.55	\$4,541,539.32	\$308.42	6.9%	40%	60%
<b>Preoperative evaluation</b>	<b>33,235</b>	<b>8.1%</b>	<b>26.07</b>	<b>28,170</b>	<b>22.10</b>	<b>\$8,146,905.00</b>	<b>\$289.21</b>	<b>12.4%</b>	<b>15%</b>	<b>85%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	149	0.0%	0.12	149	0.12	\$53,812.25	\$361.16	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	29,618	7.2%	23.24	24,553	19.26	\$7,463,090.56	\$303.96	11.4%	17%	83%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	3,468	0.8%	2.72	3,468	2.72	\$630,002.20	\$181.66	1.0%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,177</b>	<b>0.8%</b>	<b>2.49</b>	<b>311</b>	<b>0.24</b>	<b>\$323,584.00</b>	<b>\$1,040.46</b>	<b>0.5%</b>	<b>90%</b>	<b>10%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,425	0.3%	1.12	37	0.03	\$19,264.43	\$520.66	0.0%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	43	0.0%	0.03	43	0.03	\$22,709.09	\$528.12	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	452	0.1%	0.35	44	0.03	\$82,574.03	\$1,876.68	0.1%	90%	10%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,257	0.3%	0.99	187	0.15	\$199,036.36	\$1,064.37	0.3%	85%	15%
<b>Screening Tests</b>	<b>222,060</b>	<b>53.9%</b>	<b>174.22</b>	<b>46,509</b>	<b>36.49</b>	<b>\$15,433,191.00</b>	<b>\$331.83</b>	<b>23.6%</b>	<b>79%</b>	<b>21%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	6,247	1.5%	4.90	96	0.08	\$131,705.09	\$1,371.93	0.2%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	168,114	40.8%	131.90	10,757	8.44	\$9,878,635.47	\$918.34	15.1%	94%	6%
Don't perform Pap smears on women with previous hysterectomy	217	0.1%	0.17	117	0.09	\$21,423.26	\$183.10	0.0%	46%	54%
Don't perform Pap smears on women younger than 21	1,187	0.3%	0.93	1,026	0.80	\$172,431.40	\$168.06	0.3%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	9,514	2.3%	7.46	9,514	7.46	\$928,589.17	\$97.60	1.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	25,532	6.2%	20.03	19,369	15.20	\$3,395,512.22	\$175.31	5.2%	24%	76%
Don't perform routine general health checks for asymptomatic adults	2,771	0.7%	2.17	2,771	2.17	\$340,671.94	\$122.94	0.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	79	0.0%	0.06	79	0.06	\$3,406.06	\$43.11	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	1,556	0.4%	1.22	252	0.20	\$46,329.91	\$183.85	0.1%	84%	16%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	3,578	0.9%	2.81	493	0.39	\$139,256.56	\$282.47	0.2%	86%	14%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,265	0.8%	2.56	2,035	1.60	\$375,229.67	\$184.39	0.6%	38%	62%
<b>Grand Total</b>	<b>412,295</b>	<b>100.0%</b>	<b>323.47</b>	<b>184,996</b>	<b>145.14</b>	<b>\$65,481,554.51</b>	<b>\$353.96</b>	<b>100.0%</b>	<b>55%</b>	<b>45%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 Central Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>47,880</b>	<b>5.3%</b>	<b>48.81</b>	<b>46,663</b>	<b>47.57</b>	<b>\$5,218,229.00</b>	<b>\$111.83</b>	<b>4.4%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	37,363	4.2%	38.09	36,267	36.97	\$5,024,904.70	\$138.55	4.3%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	34	0.0%	0.03	33	0.03	\$3,983.73	\$120.72	0.0%	3%	97%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	949	0.1%	0.97	829	0.85	\$102,984.61	\$124.23	0.1%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	18	0.0%	0.02	18	0.02	\$1,645.77	\$91.43	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	9,516	1.1%	9.70	9,516	9.70	\$84,710.39	\$8.90	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>72,781</b>	<b>8.1%</b>	<b>74.19</b>	<b>25,609</b>	<b>26.11</b>	<b>\$35,083,700.00</b>	<b>\$1,369.98</b>	<b>29.8%</b>	<b>65%</b>	<b>35%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	10,746	1.2%	10.95	9,720	9.91	\$3,378,279.18	\$347.56	2.9%	10%	90%
Don't do imaging for uncomplicated headache.	6,545	0.7%	6.67	2,247	2.29	\$2,564,495.73	\$1,141.30	2.2%	66%	34%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	525	0.1%	0.54	517	0.53	\$829,289.28	\$1,604.04	0.7%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	755	0.1%	0.77	279	0.28	\$1,383,676.14	\$4,959.41	1.2%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	22	0.0%	0.02	22	0.02	\$2,692.26	\$122.38	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	108	0.0%	0.11	108	0.11	\$22,573.43	\$209.01	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	607	0.1%	0.62	276	0.28	\$305,654.67	\$1,107.44	0.3%	55%	45%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,300	0.1%	1.33	485	0.49	\$608,555.64	\$1,254.75	0.5%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	38,298	4.3%	39.04	4,109	4.19	\$13,887,760.60	\$3,379.84	11.8%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,300	0.4%	3.36	1,669	1.70	\$1,210,036.65	\$725.01	1.0%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	122	0.0%	0.12	122	0.12	\$115,349.52	\$945.49	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,797	0.3%	2.85	1,626	1.66	\$3,594,818.48	\$2,210.84	3.1%	42%	58%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,052.47	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	356	0.0%	0.36	356	0.36	\$556,022.19	\$1,561.86	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	880	0.1%	0.90	355	0.36	\$459,288.89	\$1,293.77	0.4%	60%	40%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,073.61	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	6,420	0.7%	6.54	3,718	3.79	\$6,157,081.74	\$1,656.02	5.2%	42%	58%
<b>Disease Approach</b>	<b>13,643</b>	<b>1.5%</b>	<b>13.91</b>	<b>10,555</b>	<b>10.76</b>	<b>\$5,622,368.00</b>	<b>\$532.67</b>	<b>4.8%</b>	<b>23%</b>	<b>77%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	116	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	119	0.0%	0.12	119	0.12	\$299,696.97	\$2,518.46	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	725	0.1%	0.74	725	0.74	\$163,547.34	\$225.58	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	12,683	1.4%	12.93	9,711	9.90	\$5,159,123.27	\$531.27	4.4%	23%	77%
<b>Preoperative evaluation</b>	<b>113,798</b>	<b>12.7%</b>	<b>116.00</b>	<b>87,467</b>	<b>89.16</b>	<b>\$38,390,216.00</b>	<b>\$438.91</b>	<b>32.6%</b>	<b>23%</b>	<b>77%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	77	0.0%	0.08	76	0.08	\$30,667.45	\$403.52	0.0%	1%	99%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	107,972	12.1%	110.06	81,692	83.27	\$35,734,193.05	\$437.43	30.4%	24%	76%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	5,749	0.6%	5.86	5,699	5.81	\$2,625,355.61	\$460.67	2.2%	1%	99%
<b>Routine FU/Monitoring</b>	<b>13,490</b>	<b>1.5%</b>	<b>13.75</b>	<b>1,649</b>	<b>1.68</b>	<b>\$3,475,347.00</b>	<b>\$2,107.55</b>	<b>3.0%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	5,949	0.7%	6.06	194	0.20	\$265,850.85	\$1,370.37	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	132	0.0%	0.13	132	0.13	\$121,980.12	\$924.09	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,441	0.2%	1.47	213	0.22	\$582,228.68	\$2,733.47	0.5%	85%	15%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,968	0.7%	6.08	1,110	1.13	\$2,505,287.19	\$2,257.02	2.1%	81%	19%
<b>Screening Tests</b>	<b>633,956</b>	<b>70.8%</b>	<b>646.24</b>	<b>121,695</b>	<b>124.05</b>	<b>\$29,796,978.00</b>	<b>\$244.85</b>	<b>25.3%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	14,090	1.6%	14.36	77	0.08	\$91,393.68	\$1,186.93	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	433,740	48.4%	442.14	20,400	20.80	\$9,543,548.65	\$467.82	8.1%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	732	0.1%	0.75	333	0.34	\$68,939.82	\$207.03	0.1%	55%	45%
Don't perform Pap smears on women younger than 21	764	0.1%	0.78	662	0.67	\$146,757.94	\$221.69	0.1%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	20,096	2.2%	20.49	20,096	20.49	\$2,546,547.64	\$126.72	2.2%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	35,324	3.9%	36.01	28,159	28.70	\$6,108,171.24	\$216.92	5.2%	20%	80%
Don't perform routine general health checks for asymptomatic adults	11,656	1.3%	11.88	11,656	11.88	\$2,161,121.16	\$185.41	1.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,267	0.6%	5.37	5,267	5.37	\$534,701.97	\$101.52	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	17,219	1.9%	17.55	2,376	2.42	\$456,230.10	\$192.02	0.4%	86%	14%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	29,529	3.3%	30.10	5,618	5.73	\$2,291,056.13	\$407.81	1.9%	81%	19%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	65,539	7.3%	66.81	27,051	27.58	\$5,848,509.40	\$216.20	5.0%	59%	41%
<b>Grand Total</b>	<b>895,557</b>	<b>100.0%</b>	<b>912.91</b>	<b>293,647</b>	<b>299.34</b>	<b>\$117,586,837.94</b>	<b>\$400.44</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful





## 2014 Central Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>32,186</b>	<b>8.0%</b>	<b>67.10</b>	<b>31,569</b>	<b>65.81</b>	<b>\$4,528,721.00</b>	<b>\$143.45</b>	<b>7.4%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	30,666	7.6%	63.93	30,125	62.80	\$4,418,741.95	\$146.68	7.3%	2%	98%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	25	0.0%	0.05	24	0.05	\$3,036.17	\$126.51	0.0%	4%	96%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	717	0.2%	1.49	642	1.34	\$82,933.32	\$129.18	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$971.81	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	778	0.2%	1.62	778	1.62	\$23,037.32	\$29.61	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>28,083</b>	<b>7.0%</b>	<b>58.54</b>	<b>12,565</b>	<b>26.19</b>	<b>\$16,092,190.00</b>	<b>\$1,280.72</b>	<b>26.5%</b>	<b>55%</b>	<b>45%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	6,361	1.6%	13.26	5,997	12.50	\$2,086,158.94	\$347.87	3.4%	6%	94%
Don't do imaging for uncomplicated headache.	2,877	0.7%	6.00	1,210	2.52	\$1,860,185.91	\$1,537.34	3.1%	58%	42%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	211	0.1%	0.44	208	0.43	\$520,216.98	\$2,501.04	0.9%	1%	99%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	151	0.0%	0.31	68	0.14	\$496,266.74	\$7,298.04	0.8%	55%	45%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	22	0.0%	0.05	22	0.05	\$2,692.26	\$122.38	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	108	0.0%	0.23	108	0.23	\$22,573.43	\$209.01	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	259	0.1%	0.54	133	0.28	\$201,698.11	\$1,516.53	0.3%	49%	51%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	348	0.1%	0.73	118	0.25	\$233,463.79	\$1,978.51	0.4%	66%	34%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	12,047	3.0%	25.11	1,411	2.94	\$4,490,711.31	\$3,182.64	7.4%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,860	0.5%	3.88	948	1.98	\$579,348.60	\$611.13	1.0%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	82	0.0%	0.17	82	0.17	\$57,023.87	\$695.41	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,311	0.3%	2.73	733	1.53	\$1,616,919.71	\$2,205.89	2.7%	44%	56%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$4,799.09	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	148	0.0%	0.31	148	0.31	\$346,069.16	\$2,338.31	0.6%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	310	0.1%	0.65	100	0.21	\$151,684.52	\$1,516.85	0.2%	68%	32%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,988	0.5%	4.14	1,279	2.67	\$3,422,377.41	\$2,675.82	5.6%	36%	64%
<b>Disease Approach</b>	<b>7,651</b>	<b>1.9%</b>	<b>15.95</b>	<b>6,596</b>	<b>13.75</b>	<b>\$4,471,548.00</b>	<b>\$677.92</b>	<b>7.4%</b>	<b>14%</b>	<b>86%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	55	0.0%	0.11	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	77	0.0%	0.16	77	0.16	\$229,657.57	\$2,982.57	0.4%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	291	0.1%	0.61	291	0.61	\$80,933.89	\$278.12	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	7,228	1.8%	15.07	6,228	12.98	\$4,160,956.87	\$668.10	6.8%	14%	86%
<b>Preoperative evaluation</b>	<b>42,083</b>	<b>10.5%</b>	<b>87.73</b>	<b>32,435</b>	<b>67.61</b>	<b>\$14,735,997.00</b>	<b>\$454.32</b>	<b>24.2%</b>	<b>23%</b>	<b>77%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	28	0.0%	0.06	28	0.06	\$13,339.65	\$476.42	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	38,882	9.7%	81.05	29,234	60.94	\$13,401,508.68	\$458.42	22.0%	25%	75%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	3,173	0.8%	6.61	3,173	6.61	\$1,321,148.38	\$416.37	2.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,733</b>	<b>0.9%</b>	<b>7.78</b>	<b>571</b>	<b>1.19</b>	<b>\$1,015,620.00</b>	<b>\$1,778.67</b>	<b>1.7%</b>	<b>85%</b>	<b>15%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,439	0.4%	3.00	69	0.14	\$59,871.26	\$867.70	0.1%	95%	5%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	62	0.0%	0.13	62	0.13	\$57,330.62	\$924.69	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	416	0.1%	0.87	70	0.15	\$37,863.75	\$540.91	0.1%	83%	17%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,816	0.5%	3.79	370	0.77	\$860,554.33	\$2,325.82	1.4%	80%	20%
<b>Screening Tests</b>	<b>288,407</b>	<b>71.7%</b>	<b>601.22</b>	<b>88,047</b>	<b>183.54</b>	<b>\$19,964,456.00</b>	<b>\$226.75</b>	<b>32.8%</b>	<b>69%</b>	<b>31%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	5,374	1.3%	11.20	27	0.06	\$28,255.05	\$1,046.48	0.0%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	172,108	42.8%	358.78	15,818	32.97	\$5,617,374.48	\$355.13	9.2%	91%	9%
Don't perform Pap smears on women with previous hysterectomy	466	0.1%	0.97	278	0.58	\$60,387.58	\$217.22	0.1%	40%	60%
Don't perform Pap smears on women younger than 21	535	0.1%	1.12	460	0.96	\$112,786.08	\$245.19	0.2%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	15,531	3.9%	32.38	15,531	32.38	\$1,906,419.74	\$122.75	3.1%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	30,057	7.5%	62.66	23,927	49.88	\$5,435,090.77	\$227.15	8.9%	20%	80%
Don't perform routine general health checks for asymptomatic adults	11,113	2.8%	23.17	11,113	23.17	\$2,093,485.11	\$188.38	3.4%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	685	0.2%	1.43	685	1.43	\$88,897.44	\$129.78	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	5,556	1.4%	11.58	1,162	2.42	\$256,228.55	\$220.51	0.4%	79%	21%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	16,711	4.2%	34.84	1,425	2.97	\$449,795.77	\$315.65	0.7%	91%	9%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	30,271	7.5%	63.10	17,621	36.73	\$3,915,735.40	\$222.22	6.4%	42%	58%
<b>Grand Total</b>	<b>402,153</b>	<b>100.0%</b>	<b>838.33</b>	<b>171,793</b>	<b>358.12</b>	<b>\$60,808,531.37</b>	<b>\$353.96</b>	<b>100.0%</b>	<b>57%</b>	<b>43%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 Central Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>15,182</b>	<b>18.2%</b>	<b>61.01</b>	<b>14,594</b>	<b>58.64</b>	<b>\$619,490.00</b>	<b>\$42.45</b>	<b>4.6%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	6,219	7.5%	24.99	5,675	22.80	\$536,854.89	\$94.60	4.0%	9%	91%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$947.56	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	225	0.3%	0.90	181	0.73	\$19,340.36	\$106.85	0.1%	20%	80%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$673.96	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	8,738	10.5%	35.11	8,738	35.11	\$61,673.07	\$7.06	0.5%	0%	100%
<b>Diagnostic Testing</b>	<b>9,244</b>	<b>11.1%</b>	<b>37.15</b>	<b>3,496</b>	<b>14.05</b>	<b>\$5,931,468.00</b>	<b>\$1,696.64</b>	<b>44.1%</b>	<b>62%</b>	<b>38%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	674	0.8%	2.71	624	2.51	\$270,761.55	\$433.91	2.0%	7%	93%
Don't do imaging for uncomplicated headache.	1,583	1.9%	6.36	754	3.03	\$387,491.62	\$513.91	2.9%	52%	48%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	86	0.1%	0.35	86	0.35	\$56,533.49	\$657.37	0.4%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	69	0.1%	0.28	41	0.16	\$131,535.68	\$3,208.19	1.0%	41%	59%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	187	0.2%	0.75	66	0.27	\$24,357.11	\$369.05	0.2%	65%	35%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	78	0.1%	0.31	24	0.10	\$26,521.18	\$1,105.05	0.2%	69%	31%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,063	4.9%	16.33	611	2.46	\$3,774,643.83	\$6,177.81	28.1%	85%	15%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	547	0.7%	2.20	90	0.36	\$46,199.89	\$513.33	0.3%	84%	16%
Don't routinely do diagnostic testing in patients with chronic urticaria.	14	0.0%	0.06	14	0.06	\$10,008.32	\$714.88	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	365	0.4%	1.47	225	0.90	\$276,457.89	\$1,228.70	2.1%	38%	62%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	122	0.1%	0.49	122	0.49	\$108,297.05	\$887.68	0.8%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	570	0.7%	2.29	255	1.02	\$307,604.37	\$1,206.29	2.3%	55%	45%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,073.61	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	886	1.1%	3.56	584	2.35	\$507,982.44	\$869.83	3.8%	34%	66%
<b>Disease Approach</b>	<b>5,461</b>	<b>6.5%</b>	<b>21.94</b>	<b>3,489</b>	<b>14.02</b>	<b>\$932,254.00</b>	<b>\$267.20</b>	<b>6.9%</b>	<b>36%</b>	<b>64%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	61	0.1%	0.25	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	14	0.0%	0.06	14	0.06	\$11,253.70	\$803.84	0.1%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	418	0.5%	1.68	418	1.68	\$75,097.62	\$179.66	0.6%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	4,968	6.0%	19.96	3,057	12.28	\$845,902.89	\$276.71	6.3%	38%	62%
<b>Preoperative evaluation</b>	<b>6,597</b>	<b>7.9%</b>	<b>26.51</b>	<b>5,553</b>	<b>22.31</b>	<b>\$1,921,705.00</b>	<b>\$346.07</b>	<b>14.3%</b>	<b>16%</b>	<b>84%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	37	0.0%	0.15	37	0.15	\$10,206.63	\$275.85	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	5,689	6.8%	22.86	4,645	18.67	\$1,764,982.33	\$379.97	13.1%	18%	82%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	871	1.0%	3.50	871	3.50	\$146,515.65	\$168.22	1.1%	0%	100%
<b>Routine FU/Monitoring</b>	<b>675</b>	<b>0.8%</b>	<b>2.71</b>	<b>51</b>	<b>0.20</b>	<b>\$69,179.00</b>	<b>\$1,356.46</b>	<b>0.5%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	305	0.4%	1.23	*	*	\$2,103.34	*	0.0%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$3,764.92	*	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	102	0.1%	0.41	11	0.04	\$18,269.46	\$1,660.86	0.1%	89%	11%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	268	0.3%	1.08	40	0.16	\$45,041.54	\$1,126.04	0.3%	85%	15%
<b>Screening Tests</b>	<b>46,271</b>	<b>55.4%</b>	<b>185.93</b>	<b>11,071</b>	<b>44.49</b>	<b>\$3,979,867.00</b>	<b>\$359.49</b>	<b>29.6%</b>	<b>76%</b>	<b>24%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,212	1.5%	4.87	37	0.15	\$53,675.86	\$1,450.70	0.4%	97%	3%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	35,291	42.3%	141.81	3,493	14.04	\$2,794,566.04	\$800.05	20.8%	90%	10%
Don't perform Pap smears on women with previous hysterectomy	34	0.0%	0.14	17	0.07	\$2,506.65	\$147.45	0.0%	50%	50%
Don't perform Pap smears on women younger than 21	229	0.3%	0.92	202	0.81	\$33,971.86	\$168.18	0.3%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,015	2.4%	8.10	2,015	8.10	\$248,174.25	\$123.16	1.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	5,247	6.3%	21.08	4,214	16.93	\$669,967.81	\$158.99	5.0%	20%	80%
Don't perform routine general health checks for asymptomatic adults	469	0.6%	1.88	469	1.88	\$60,617.66	\$129.25	0.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	14	0.0%	0.06	14	0.06	\$842.34	\$60.17	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	258	0.3%	1.04	46	0.18	\$7,710.57	\$167.62	0.1%	82%	18%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	810	1.0%	3.25	105	0.42	\$29,140.09	\$277.52	0.2%	87%	13%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	692	0.8%	2.78	459	1.84	\$78,693.58	\$171.45	0.6%	34%	66%
<b>Grand Total</b>	<b>83,461</b>	<b>100.0%</b>	<b>335.38</b>	<b>38,292</b>	<b>153.87</b>	<b>\$13,453,962.66</b>	<b>\$351.35</b>	<b>100.0%</b>	<b>54%</b>	<b>46%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 Eastern Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>43,570</b>	<b>4.6%</b>	<b>40.22</b>	<b>41,980</b>	<b>38.75</b>	<b>\$4,238,247.00</b>	<b>\$100.96</b>	<b>3.4%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	32,678	3.4%	30.16	31,226	28.82	\$4,009,353.04	\$128.40	3.2%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	66	0.0%	0.06	62	0.06	\$10,686.83	\$172.37	0.0%	6%	94%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	961	0.1%	0.89	827	0.76	\$110,488.98	\$133.60	0.1%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	19	0.0%	0.02	19	0.02	\$2,907.17	\$153.01	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	9,846	1.0%	9.09	9,846	9.09	\$104,811.43	\$10.65	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>84,163</b>	<b>8.8%</b>	<b>77.69</b>	<b>27,698</b>	<b>25.57</b>	<b>\$37,384,922.00</b>	<b>\$1,349.73</b>	<b>30.2%</b>	<b>67%</b>	<b>33%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	10,303	1.1%	9.51	8,988	8.30	\$3,486,925.77	\$387.95	2.8%	13%	87%
Don't do imaging for uncomplicated headache.	7,439	0.8%	6.87	2,128	1.96	\$2,394,737.93	\$1,125.35	1.9%	71%	29%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	595	0.1%	0.55	583	0.54	\$830,259.92	\$1,424.12	0.7%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,248	0.1%	1.15	502	0.46	\$2,000,943.16	\$3,985.94	1.6%	60%	40%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$948.49	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$265.94	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	786	0.1%	0.73	391	0.36	\$410,959.53	\$1,051.05	0.3%	50%	50%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,153	0.2%	1.99	912	0.84	\$1,396,715.34	\$1,531.49	1.1%	58%	42%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	46,241	4.9%	42.68	5,691	5.25	\$15,479,076.84	\$2,719.92	12.5%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	4,089	0.4%	3.77	2,135	1.97	\$1,555,271.09	\$728.46	1.3%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	84	0.0%	0.08	84	0.08	\$110,085.27	\$1,310.54	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,228	0.3%	2.98	1,952	1.80	\$3,621,168.13	\$1,855.11	2.9%	40%	60%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$218.51	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	392	0.0%	0.36	392	0.36	\$626,817.08	\$1,599.02	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	814	0.1%	0.75	321	0.30	\$244,631.87	\$762.09	0.2%	61%	39%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	11	0.0%	0.01	11	0.01	\$13,600.49	\$1,236.41	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	6,780	0.7%	6.26	3,608	3.33	\$5,212,296.85	\$1,444.65	4.2%	47%	53%
<b>Disease Approach</b>	<b>19,122</b>	<b>2.0%</b>	<b>17.65</b>	<b>14,420</b>	<b>13.31</b>	<b>\$7,896,554.00</b>	<b>\$547.61</b>	<b>6.4%</b>	<b>25%</b>	<b>75%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	121	0.0%	0.11	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	106	0.0%	0.10	106	0.10	\$309,006.53	\$2,915.16	0.2%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	648	0.1%	0.60	648	0.60	\$238,117.32	\$367.47	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	18,247	1.9%	16.84	13,666	12.61	\$7,349,430.24	\$537.79	5.9%	25%	75%
<b>Preoperative evaluation</b>	<b>139,283</b>	<b>14.6%</b>	<b>128.57</b>	<b>112,425</b>	<b>103.78</b>	<b>\$42,052,816.00</b>	<b>\$374.05</b>	<b>34.0%</b>	<b>19%</b>	<b>81%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	83	0.0%	0.08	83	0.08	\$51,002.33	\$614.49	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	133,002	14.0%	122.77	106,221	98.05	\$39,443,488.82	\$371.33	31.9%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	6,198	0.7%	5.72	6,121	5.65	\$2,558,325.30	\$417.96	2.1%	1%	99%
<b>Routine FU/Monitoring</b>	<b>14,827</b>	<b>1.6%</b>	<b>13.69</b>	<b>2,006</b>	<b>1.85</b>	<b>\$3,481,881.00</b>	<b>\$1,735.73</b>	<b>2.8%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,529	0.7%	6.03	230	0.21	\$258,514.25	\$1,123.98	0.2%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	286	0.0%	0.26	286	0.26	\$230,836.45	\$807.12	0.2%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,489	0.2%	1.37	215	0.20	\$338,390.51	\$1,573.91	0.3%	86%	14%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	6,523	0.7%	6.02	1,275	1.18	\$2,654,139.51	\$2,081.68	2.1%	80%	20%
<b>Screening Tests</b>	<b>651,605</b>	<b>68.4%</b>	<b>601.49</b>	<b>114,306</b>	<b>105.51</b>	<b>\$28,592,546.00</b>	<b>\$250.14</b>	<b>23.1%</b>	<b>82%</b>	<b>18%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	18,101	1.9%	16.71	72	0.07	\$71,144.35	\$988.12	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	449,325	47.2%	414.76	15,136	13.97	\$7,364,818.29	\$486.58	6.0%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	993	0.1%	0.92	352	0.32	\$78,468.30	\$222.92	0.1%	65%	35%
Don't perform Pap smears on women younger than 21	768	0.1%	0.71	674	0.62	\$153,692.66	\$228.03	0.1%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	19,167	2.0%	17.69	19,167	17.69	\$2,417,358.19	\$126.12	2.0%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	37,850	4.0%	34.94	29,902	27.60	\$6,875,772.41	\$229.94	5.6%	21%	79%
Don't perform routine general health checks for asymptomatic adults	9,697	1.0%	8.95	9,697	8.95	\$1,707,759.95	\$176.11	1.4%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	4,907	0.5%	4.53	4,907	4.53	\$487,847.89	\$99.42	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	16,402	1.7%	15.14	2,084	1.92	\$498,673.09	\$239.29	0.4%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	30,270	3.2%	27.94	6,720	6.20	\$3,000,060.59	\$446.44	2.4%	78%	22%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	64,125	6.7%	59.19	25,595	23.63	\$5,936,950.17	\$231.96	4.8%	60%	40%
<b>Grand Total</b>	<b>952,578</b>	<b>100.0%</b>	<b>879.31</b>	<b>312,843</b>	<b>288.78</b>	<b>\$123,646,966.81</b>	<b>\$395.24</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2014 Eastern Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>28,132</b>	<b>7.5%</b>	<b>60.58</b>	<b>27,169</b>	<b>58.50</b>	<b>\$3,572,327.00</b>	<b>\$131.49</b>	<b>6.3%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	26,321	7.0%	56.68	25,456	54.81	\$3,443,287.35	\$135.26	6.0%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	24	0.0%	0.05	24	0.05	\$8,167.81	\$340.33	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	699	0.2%	1.51	601	1.29	\$85,170.56	\$141.71	0.1%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$1,784.53	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	1,088	0.3%	2.34	1,088	2.34	\$33,916.63	\$31.17	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>28,211</b>	<b>7.5%</b>	<b>60.75</b>	<b>11,454</b>	<b>24.66</b>	<b>\$14,151,161.00</b>	<b>\$1,235.48</b>	<b>24.8%</b>	<b>59%</b>	<b>41%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	5,301	1.4%	11.41	4,887	10.52	\$1,957,759.13	\$400.61	3.4%	8%	92%
Don't do imaging for uncomplicated headache.	2,942	0.8%	6.34	1,078	2.32	\$1,676,374.73	\$1,555.08	2.9%	63%	37%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	188	0.1%	0.40	187	0.40	\$451,641.12	\$2,415.19	0.8%	1%	99%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	185	0.0%	0.40	101	0.22	\$404,892.77	\$4,008.84	0.7%	45%	55%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$948.49	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$265.94	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	315	0.1%	0.68	176	0.38	\$233,818.66	\$1,328.52	0.4%	44%	56%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	485	0.1%	1.04	191	0.41	\$438,952.87	\$2,298.18	0.8%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	13,453	3.6%	28.97	1,708	3.68	\$4,173,106.16	\$2,443.27	7.3%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,701	0.5%	3.66	865	1.86	\$611,278.11	\$706.68	1.1%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	48	0.0%	0.10	48	0.10	\$44,936.95	\$936.19	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,429	0.4%	3.08	889	1.91	\$1,300,385.37	\$1,462.75	2.3%	38%	62%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	171	0.0%	0.37	171	0.37	\$381,807.98	\$2,232.80	0.7%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	236	0.1%	0.51	85	0.18	\$116,605.89	\$1,371.83	0.2%	64%	36%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$10,530.41	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,757	0.5%	3.78	1,068	2.30	\$2,347,856.88	\$2,198.37	4.1%	39%	61%
<b>Disease Approach</b>	<b>11,963</b>	<b>3.2%</b>	<b>25.76</b>	<b>9,932</b>	<b>21.39</b>	<b>\$6,414,579.00</b>	<b>\$645.85</b>	<b>11.3%</b>	<b>17%</b>	<b>83%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	84	0.0%	0.18	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	79	0.0%	0.17	79	0.17	\$266,598.52	\$3,374.66	0.5%	0%	100%



Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	367	0.1%	0.79	367	0.79	\$121,208.08	\$330.27	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	11,433	3.0%	24.62	9,486	20.43	\$6,026,771.96	\$635.33	10.6%	17%	83%
<b>Preoperative evaluation</b>	<b>40,976</b>	<b>10.9%</b>	<b>88.23</b>	<b>33,671</b>	<b>72.50</b>	<b>\$12,976,692.00</b>	<b>\$385.40</b>	<b>22.8%</b>	<b>18%</b>	<b>82%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	32	0.0%	0.07	32	0.07	\$27,873.79	\$871.06	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	37,948	10.1%	81.71	30,643	65.98	\$11,864,285.98	\$387.18	20.8%	19%	81%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	2,996	0.8%	6.45	2,996	6.45	\$1,084,532.46	\$361.99	1.9%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,519</b>	<b>0.9%</b>	<b>7.58</b>	<b>567</b>	<b>1.22</b>	<b>\$868,631.00</b>	<b>\$1,531.98</b>	<b>1.5%</b>	<b>84%</b>	<b>16%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,403	0.4%	3.02	55	0.12	\$106,943.35	\$1,944.42	0.2%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	93	0.0%	0.20	93	0.20	\$81,182.04	\$872.93	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	386	0.1%	0.83	68	0.15	\$83,818.21	\$1,232.62	0.1%	82%	18%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,637	0.4%	3.52	351	0.76	\$596,687.48	\$1,699.96	1.0%	79%	21%
<b>Screening Tests</b>	<b>262,854</b>	<b>70.0%</b>	<b>566.01</b>	<b>78,165</b>	<b>168.31</b>	<b>\$18,966,105.00</b>	<b>\$242.64</b>	<b>33.3%</b>	<b>70%</b>	<b>30%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	6,209	1.7%	13.37	50	0.11	\$40,582.94	\$811.66	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	158,092	42.1%	340.42	12,310	26.51	\$4,591,715.74	\$373.01	8.1%	92%	8%
Don't perform Pap smears on women with previous hysterectomy	487	0.1%	1.05	260	0.56	\$63,787.72	\$245.34	0.1%	47%	53%
Don't perform Pap smears on women younger than 21	453	0.1%	0.98	389	0.84	\$110,267.97	\$283.47	0.2%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	14,682	3.9%	31.61	14,682	31.61	\$2,009,220.83	\$136.85	3.5%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	29,845	7.9%	64.27	23,698	51.03	\$6,017,060.23	\$253.91	10.6%	21%	79%
Don't perform routine general health checks for asymptomatic adults	8,887	2.4%	19.14	8,887	19.14	\$1,615,334.32	\$181.76	2.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	525	0.1%	1.13	525	1.13	\$63,269.79	\$120.51	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	5,072	1.4%	10.92	986	2.12	\$261,066.80	\$264.77	0.5%	81%	19%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	15,113	4.0%	32.54	1,364	2.94	\$515,465.73	\$377.91	0.9%	91%	9%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	23,489	6.3%	50.58	15,014	32.33	\$3,678,332.61	\$244.99	6.5%	36%	64%
<b>Grand Total</b>	<b>375,677</b>	<b>100.0%</b>	<b>808.95</b>	<b>160,980</b>	<b>346.64</b>	<b>\$56,949,494.89</b>	<b>\$353.77</b>	<b>100.0%</b>	<b>57%</b>	<b>43%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2014 Eastern Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>15,327</b>	<b>16.0%</b>	<b>48.75</b>	<b>14,705</b>	<b>46.77</b>	<b>\$658,554.00</b>	<b>\$44.78</b>	<b>4.8%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	6,266	6.5%	19.93	5,683	18.08	\$558,699.59	\$98.31	4.1%	9%	91%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	42	0.0%	0.13	38	0.12	\$2,519.02	\$66.29	0.0%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	261	0.3%	0.83	226	0.72	\$25,318.42	\$112.03	0.2%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$1,122.64	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	8,758	9.1%	27.86	8,758	27.86	\$70,894.80	\$8.09	0.5%	0%	100%
<b>Diagnostic Testing</b>	<b>11,072</b>	<b>11.6%</b>	<b>35.22</b>	<b>3,968</b>	<b>12.62</b>	<b>\$6,438,336.00</b>	<b>\$1,622.56</b>	<b>47.2%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	944	1.0%	3.00	861	2.74	\$352,987.44	\$409.97	2.6%	9%	91%
Don't do imaging for uncomplicated headache.	1,989	2.1%	6.33	804	2.56	\$526,959.16	\$655.42	3.9%	60%	40%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	104	0.1%	0.33	103	0.33	\$84,743.71	\$822.75	0.6%	1%	99%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	99	0.1%	0.31	60	0.19	\$157,349.72	\$2,622.50	1.2%	39%	61%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	245	0.3%	0.78	93	0.30	\$39,694.54	\$426.82	0.3%	62%	38%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	107	0.1%	0.34	42	0.13	\$44,646.27	\$1,063.01	0.3%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,690	4.9%	14.92	618	1.97	\$3,904,877.17	\$6,318.57	28.6%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	801	0.8%	2.55	150	0.48	\$86,221.50	\$574.81	0.6%	81%	19%
Don't routinely do diagnostic testing in patients with chronic urticaria.	14	0.0%	0.04	14	0.04	\$9,986.76	\$713.34	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	408	0.4%	1.30	222	0.71	\$400,775.55	\$1,805.30	2.9%	46%	54%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	150	0.2%	0.48	150	0.48	\$145,051.91	\$967.01	1.1%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	578	0.6%	1.84	236	0.75	\$128,025.98	\$542.48	0.9%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,070.08	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	943	1.0%	3.00	615	1.96	\$553,945.85	\$900.72	4.1%	35%	65%
<b>Disease Approach</b>	<b>6,963</b>	<b>7.3%</b>	<b>22.15</b>	<b>4,316</b>	<b>13.73</b>	<b>\$1,407,187.00</b>	<b>\$326.04</b>	<b>10.3%</b>	<b>38%</b>	<b>62%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	37	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$8,434.08	*	0.1%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	276	0.3%	0.88	276	0.88	\$116,308.45	\$421.41	0.9%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	6,650	6.9%	21.15	4,040	12.85	\$1,282,444.75	\$317.44	9.4%	39%	61%
<b>Preoperative evaluation</b>	<b>8,629</b>	<b>9.0%</b>	<b>27.45</b>	<b>7,319</b>	<b>23.28</b>	<b>\$2,087,814.00</b>	<b>\$285.26</b>	<b>15.3%</b>	<b>15%</b>	<b>85%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	40	0.0%	0.13	40	0.13	\$14,765.98	\$369.15	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,963	8.3%	25.33	6,653	21.16	\$1,976,949.25	\$297.15	14.5%	16%	84%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	626	0.7%	1.99	626	1.99	\$96,098.97	\$153.51	0.7%	0%	100%
<b>Routine FU/Monitoring</b>	<b>784</b>	<b>0.8%</b>	<b>2.49</b>	<b>54</b>	<b>0.17</b>	<b>\$73,055.00</b>	<b>\$1,352.88</b>	<b>0.5%</b>	<b>93%</b>	<b>7%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	365	0.4%	1.16	*	*	\$2,765.35	*	0.0%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	15	0.0%	0.05	15	0.05	\$8,933.72	\$595.58	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	102	0.1%	0.32	*	*	\$13,676.52	*	0.1%	91%	9%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	302	0.3%	0.96	39	0.12	\$47,679.74	\$1,222.56	0.3%	87%	13%
<b>Screening Tests</b>	<b>52,977</b>	<b>55.3%</b>	<b>168.51</b>	<b>11,651</b>	<b>37.06</b>	<b>\$2,965,886.00</b>	<b>\$254.56</b>	<b>21.8%</b>	<b>78%</b>	<b>22%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,759	1.8%	5.59	*	*	\$13,073.99	*	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	37,956	39.6%	120.73	1,642	5.22	\$1,712,312.51	\$1,042.82	12.6%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	87	0.1%	0.28	52	0.17	\$7,480.07	\$143.85	0.1%	40%	60%
Don't perform Pap smears on women younger than 21	313	0.3%	1.00	283	0.90	\$43,206.48	\$152.67	0.3%	10%	90%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,192	2.3%	6.97	2,192	6.97	\$127,211.81	\$58.03	0.9%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	7,996	8.3%	25.43	6,195	19.70	\$857,247.90	\$138.38	6.3%	23%	77%
Don't perform routine general health checks for asymptomatic adults	723	0.8%	2.30	723	2.30	\$85,287.07	\$117.96	0.6%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	23	0.0%	0.07	23	0.07	\$729.99	\$31.74	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	410	0.4%	1.30	48	0.15	\$10,190.51	\$212.30	0.1%	88%	12%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	875	0.9%	2.78	104	0.33	\$43,309.95	\$416.44	0.3%	88%	12%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	643	0.7%	2.05	389	1.24	\$65,836.20	\$169.24	0.5%	40%	60%
<b>Grand Total</b>	<b>95,772</b>	<b>100.0%</b>	<b>304.63</b>	<b>42,059</b>	<b>133.78</b>	<b>\$13,630,833.40</b>	<b>\$324.09</b>	<b>100.0%</b>	<b>56%</b>	<b>44%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.

## 2014 Northern Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>58,893</b>	<b>4.6%</b>	<b>38.28</b>	<b>56,672</b>	<b>36.83</b>	<b>\$6,481,296.00</b>	<b>\$114.37</b>	<b>3.5%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	51,512	4.0%	33.48	49,433	32.13	\$6,215,415.90	\$125.73	3.3%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	85	0.0%	0.06	75	0.05	\$7,581.18	\$101.08	0.0%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,586	0.1%	1.03	1,454	0.95	\$204,810.27	\$140.86	0.1%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	11	0.0%	0.01	11	0.01	\$1,088.08	\$98.92	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	5,699	0.4%	3.70	5,699	3.70	\$52,400.44	\$9.19	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>88,470</b>	<b>6.9%</b>	<b>57.50</b>	<b>32,876</b>	<b>21.37</b>	<b>\$50,636,982.00</b>	<b>\$1,540.24</b>	<b>27.0%</b>	<b>63%</b>	<b>37%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	12,144	1.0%	7.89	10,507	6.83	\$4,686,513.94	\$446.04	2.5%	13%	87%
Don't do imaging for uncomplicated headache.	8,776	0.7%	5.70	3,420	2.22	\$3,626,797.55	\$1,060.47	1.9%	61%	39%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	649	0.1%	0.42	630	0.41	\$902,186.23	\$1,432.04	0.5%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,033	0.1%	0.67	459	0.30	\$1,724,387.71	\$3,756.84	0.9%	56%	44%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$606.89	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$13.51	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,196	0.1%	0.78	727	0.47	\$732,527.72	\$1,007.60	0.4%	39%	61%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,890	0.1%	1.23	709	0.46	\$1,060,474.94	\$1,495.73	0.6%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	43,572	3.4%	28.32	6,785	4.41	\$25,307,070.79	\$3,729.86	13.5%	84%	16%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	8,167	0.6%	5.31	3,998	2.60	\$2,461,701.71	\$615.73	1.3%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	264	0.0%	0.17	264	0.17	\$223,894.38	\$848.08	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,040	0.2%	1.98	1,243	0.81	\$2,895,043.88	\$2,329.08	1.5%	59%	41%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	18	0.0%	0.01	18	0.01	\$20,278.94	\$1,126.61	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	278	0.0%	0.18	278	0.18	\$593,789.07	\$2,135.93	0.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	818	0.1%	0.53	363	0.24	\$367,170.84	\$1,011.49	0.2%	56%	44%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	11	0.0%	0.01	11	0.01	\$12,511.62	\$1,137.42	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	6,614	0.5%	4.30	3,464	2.25	\$6,022,012.69	\$1,738.46	3.2%	48%	52%
<b>Disease Approach</b>	<b>11,566</b>	<b>0.9%</b>	<b>7.52</b>	<b>9,377</b>	<b>6.09</b>	<b>\$6,832,167.00</b>	<b>\$728.61</b>	<b>3.6%</b>	<b>19%</b>	<b>81%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	184	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	160	0.0%	0.10	160	0.10	\$411,205.23	\$2,570.03	0.2%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	644	0.1%	0.42	644	0.42	\$166,297.10	\$258.23	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	10,578	0.8%	6.88	8,573	5.57	\$6,254,664.45	\$729.58	3.3%	19%	81%
<b>Preoperative evaluation</b>	<b>133,517</b>	<b>10.5%</b>	<b>86.78</b>	<b>111,431</b>	<b>72.42</b>	<b>\$35,584,521.00</b>	<b>\$319.34</b>	<b>19.0%</b>	<b>17%</b>	<b>83%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	229	0.0%	0.15	229	0.15	\$131,289.52	\$573.32	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	123,202	9.7%	80.07	101,189	65.77	\$32,155,539.45	\$317.78	17.2%	18%	82%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	10,086	0.8%	6.56	10,013	6.51	\$3,297,691.55	\$329.34	1.8%	1%	99%
<b>Routine FU/Monitoring</b>	<b>12,148</b>	<b>1.0%</b>	<b>7.90</b>	<b>2,319</b>	<b>1.51</b>	<b>\$2,775,163.00</b>	<b>\$1,196.71</b>	<b>1.5%</b>	<b>81%</b>	<b>19%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	5,843	0.5%	3.80	193	0.13	\$294,930.64	\$1,528.14	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	192	0.0%	0.12	192	0.12	\$165,104.90	\$859.92	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,235	0.1%	0.80	366	0.24	\$280,605.29	\$766.68	0.1%	70%	30%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	4,878	0.4%	3.17	1,568	1.02	\$2,034,522.08	\$1,297.53	1.1%	68%	32%
<b>Screening Tests</b>	<b>969,293</b>	<b>76.1%</b>	<b>629.98</b>	<b>356,353</b>	<b>231.61</b>	<b>\$84,943,935.00</b>	<b>\$238.37</b>	<b>45.4%</b>	<b>63%</b>	<b>37%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	18,450	1.4%	11.99	343	0.22	\$164,496.22	\$479.58	0.1%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	579,645	45.5%	376.73	83,427	54.22	\$29,352,938.89	\$351.84	15.7%	86%	14%
Don't perform Pap smears on women with previous hysterectomy	910	0.1%	0.59	364	0.24	\$131,654.07	\$361.69	0.1%	60%	40%
Don't perform Pap smears on women younger than 21	1,015	0.1%	0.66	918	0.60	\$216,621.84	\$235.97	0.1%	10%	90%
Don't perform population based screening for 25-OH-Vitamin D deficiency	96,735	7.6%	62.87	96,735	62.87	\$13,281,758.94	\$137.30	7.1%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	80,238	6.3%	52.15	67,846	44.10	\$16,513,636.62	\$243.40	8.8%	15%	85%
Don't perform routine general health checks for asymptomatic adults	45,195	3.5%	29.37	45,195	29.37	\$9,899,557.75	\$219.04	5.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,588	0.4%	3.63	5,588	3.63	\$580,264.06	\$103.84	0.3%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	19,479	1.5%	12.66	5,379	3.50	\$1,342,859.50	\$249.65	0.7%	72%	28%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	39,117	3.1%	25.42	9,472	6.16	\$2,672,429.72	\$282.14	1.4%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	82,921	6.5%	53.89	41,086	26.70	\$10,787,717.16	\$262.56	5.8%	50%	50%
<b>Grand Total</b>	<b>1,273,897</b>	<b>100.0%</b>	<b>827.95</b>	<b>569,038</b>	<b>369.84</b>	<b>\$187,254,063.26</b>	<b>\$329.07</b>	<b>100.0%</b>	<b>55%</b>	<b>45%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

## 2014 Northern Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>49,986</b>	<b>6.2%</b>	<b>47.28</b>	<b>48,192</b>	<b>45.59</b>	<b>\$6,079,744.00</b>	<b>\$126.16</b>	<b>4.5%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	47,352	5.9%	44.79	45,677	43.21	\$5,860,701.40	\$128.31	4.3%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	53	0.0%	0.05	45	0.04	\$5,231.88	\$116.26	0.0%	15%	85%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,465	0.2%	1.39	1,354	1.28	\$192,812.98	\$142.40	0.1%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$801.28	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	1,116	0.1%	1.06	1,116	1.06	\$20,195.96	\$18.10	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>44,373</b>	<b>5.5%</b>	<b>41.98</b>	<b>20,836</b>	<b>19.71</b>	<b>\$26,585,132.00</b>	<b>\$1,275.92</b>	<b>19.6%</b>	<b>53%</b>	<b>47%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	8,283	1.0%	7.84	7,715	7.30	\$3,618,437.15	\$469.01	2.7%	7%	93%
Don't do imaging for uncomplicated headache.	5,772	0.7%	5.46	2,952	2.79	\$3,330,541.76	\$1,128.23	2.5%	49%	51%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	344	0.0%	0.33	338	0.32	\$623,563.71	\$1,844.86	0.5%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	254	0.0%	0.24	167	0.16	\$400,172.50	\$2,396.24	0.3%	34%	66%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$606.89	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$13.51	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	734	0.1%	0.69	495	0.47	\$506,590.98	\$1,023.42	0.4%	33%	67%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	563	0.1%	0.53	253	0.24	\$432,138.61	\$1,708.06	0.3%	55%	45%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	17,151	2.1%	16.22	3,115	2.95	\$9,880,813.52	\$3,172.01	7.3%	82%	18%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	6,441	0.8%	6.09	3,077	2.91	\$1,843,719.21	\$599.19	1.4%	52%	48%
Don't routinely do diagnostic testing in patients with chronic urticaria.	214	0.0%	0.20	214	0.20	\$187,335.31	\$875.40	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,857	0.2%	1.76	720	0.68	\$1,444,419.15	\$2,006.14	1.1%	61%	39%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$2,309.64	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	199	0.0%	0.19	199	0.19	\$475,487.40	\$2,389.38	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	478	0.1%	0.45	193	0.18	\$257,805.22	\$1,335.78	0.2%	60%	40%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$6,214.28	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	2,083	0.3%	1.97	1,398	1.32	\$3,574,962.68	\$2,557.20	2.6%	33%	67%
<b>Disease Approach</b>	<b>9,636</b>	<b>1.2%</b>	<b>9.12</b>	<b>8,116</b>	<b>7.68</b>	<b>\$6,438,576.00</b>	<b>\$793.32</b>	<b>4.7%</b>	<b>16%</b>	<b>84%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	123	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	117	0.0%	0.11	117	0.11	\$347,484.82	\$2,969.96	0.3%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	578	0.1%	0.55	578	0.55	\$152,487.20	\$263.82	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	8,818	1.1%	8.34	7,421	7.02	\$5,938,603.87	\$800.24	4.4%	16%	84%
<b>Preoperative evaluation</b>	<b>68,069</b>	<b>8.4%</b>	<b>64.39</b>	<b>59,343</b>	<b>56.14</b>	<b>\$19,828,422.00</b>	<b>\$334.13</b>	<b>14.6%</b>	<b>13%</b>	<b>87%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	185	0.0%	0.18	185	0.18	\$113,239.44	\$612.11	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	60,997	7.5%	57.70	52,271	49.45	\$17,464,466.35	\$334.11	12.9%	14%	86%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	6,887	0.9%	6.51	6,887	6.51	\$2,250,715.78	\$326.81	1.7%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,110</b>	<b>0.4%</b>	<b>2.94</b>	<b>847</b>	<b>0.80</b>	<b>\$993,737.00</b>	<b>\$1,173.24</b>	<b>0.7%</b>	<b>73%</b>	<b>27%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,192	0.1%	1.13	83	0.08	\$159,795.76	\$1,925.25	0.1%	93%	7%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	84	0.0%	0.08	84	0.08	\$99,467.69	\$1,184.14	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	477	0.1%	0.45	154	0.15	\$91,488.69	\$594.08	0.1%	68%	32%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,357	0.2%	1.28	526	0.50	\$642,984.73	\$1,222.40	0.5%	61%	39%
<b>Screening Tests</b>	<b>633,317</b>	<b>78.3%</b>	<b>599.09</b>	<b>320,552</b>	<b>303.23</b>	<b>\$75,747,146.00</b>	<b>\$236.30</b>	<b>55.8%</b>	<b>49%</b>	<b>51%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	9,516	1.2%	9.00	314	0.30	\$149,988.25	\$477.67	0.1%	97%	3%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	329,562	40.8%	311.75	79,997	75.67	\$26,125,949.67	\$326.59	19.3%	76%	24%
Don't perform Pap smears on women with previous hysterectomy	616	0.1%	0.58	338	0.32	\$127,886.02	\$378.36	0.1%	45%	55%
Don't perform Pap smears on women younger than 21	860	0.1%	0.81	780	0.74	\$189,949.08	\$243.52	0.1%	9%	91%
Don't perform population based screening for 25-OH-Vitamin D deficiency	87,438	10.8%	82.71	87,438	82.71	\$12,359,962.03	\$141.36	9.1%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	77,910	9.6%	73.70	65,834	62.28	\$16,021,046.75	\$243.36	11.8%	15%	85%
Don't perform routine general health checks for asymptomatic adults	44,317	5.5%	41.92	44,317	41.92	\$9,795,652.95	\$221.04	7.2%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	879	0.1%	0.83	879	0.83	\$105,691.77	\$120.24	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	10,413	1.3%	9.85	3,843	3.64	\$1,012,384.32	\$263.44	0.7%	63%	37%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	26,282	3.3%	24.86	4,203	3.98	\$994,593.03	\$236.64	0.7%	84%	16%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	45,524	5.6%	43.06	32,609	30.85	\$8,864,041.67	\$271.83	6.5%	28%	72%
<b>Grand Total</b>	<b>808,521</b>	<b>100.0%</b>	<b>764.83</b>	<b>457,916</b>	<b>433.17</b>	<b>\$135,672,754.89</b>	<b>\$296.28</b>	<b>100.0%</b>	<b>43%</b>	<b>57%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2014 Northern Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>7,861</b>	<b>17.6%</b>	<b>35.76</b>	<b>7,475</b>	<b>34.00</b>	<b>\$290,644.00</b>	<b>\$38.88</b>	<b>3.1%</b>	<b>5%</b>	<b>95%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	3,150	7.0%	14.33	2,779	12.64	\$245,480.95	\$88.33	2.6%	12%	88%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	32	0.1%	0.15	30	0.14	\$2,349.30	\$78.31	0.0%	6%	94%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	96	0.2%	0.44	83	0.38	\$10,322.22	\$124.36	0.1%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$286.80	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	4,583	10.2%	20.85	4,583	20.85	\$32,204.48	\$7.03	0.3%	0%	100%
<b>Diagnostic Testing</b>	<b>5,984</b>	<b>13.4%</b>	<b>27.22</b>	<b>2,062</b>	<b>9.38</b>	<b>\$6,253,881.00</b>	<b>\$3,032.92</b>	<b>65.8%</b>	<b>66%</b>	<b>34%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	367	0.8%	1.67	311	1.41	\$146,770.02	\$471.93	1.5%	15%	85%
Don't do imaging for uncomplicated headache.	876	2.0%	3.98	321	1.46	\$157,804.55	\$491.60	1.7%	63%	37%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	55	0.1%	0.25	53	0.24	\$38,884.92	\$733.68	0.4%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	61	0.1%	0.28	27	0.12	\$106,268.21	\$3,935.86	1.1%	56%	44%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	150	0.3%	0.68	52	0.24	\$22,415.69	\$431.07	0.2%	65%	35%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	107	0.2%	0.49	33	0.15	\$54,895.18	\$1,663.49	0.6%	69%	31%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	2,641	5.9%	12.01	443	2.02	\$4,840,995.55	\$10,927.76	50.9%	83%	17%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	493	1.1%	2.24	80	0.36	\$24,864.93	\$310.81	0.3%	84%	16%
Don't routinely do diagnostic testing in patients with chronic urticaria.	13	0.0%	0.06	13	0.06	\$7,729.95	\$594.61	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	189	0.4%	0.86	102	0.46	\$273,588.65	\$2,682.24	2.9%	46%	54%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	48	0.1%	0.22	48	0.22	\$40,679.56	\$847.49	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	340	0.8%	1.55	170	0.77	\$109,365.62	\$643.33	1.2%	50%	50%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$6,297.34	*	0.1%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	644	1.4%	2.93	409	1.86	\$423,321.24	\$1,035.02	4.5%	36%	64%
<b>Disease Approach</b>	<b>1,233</b>	<b>2.8%</b>	<b>5.61</b>	<b>607</b>	<b>2.76</b>	<b>\$155,866.00</b>	<b>\$256.78</b>	<b>1.6%</b>	<b>51%</b>	<b>49%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	60	0.1%	0.27	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$859.19	*	0.0%	0%	100%



Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	52	0.1%	0.24	52	0.24	\$10,986.43	\$211.28	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,121	2.5%	5.10	555	2.52	\$144,019.93	\$259.50	1.5%	50%	50%
<b>Preoperative evaluation</b>	<b>2,589</b>	<b>5.8%</b>	<b>11.78</b>	<b>2,242</b>	<b>10.20</b>	<b>\$579,637.00</b>	<b>\$258.54</b>	<b>6.1%</b>	<b>13%</b>	<b>87%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	16	0.0%	0.07	16	0.07	\$4,673.54	\$292.10	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	2,285	5.1%	10.39	1,938	8.82	\$527,476.64	\$272.18	5.5%	15%	85%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	288	0.6%	1.31	288	1.31	\$47,487.17	\$164.89	0.5%	0%	100%
<b>Routine FU/Monitoring</b>	<b>336</b>	<b>0.8%</b>	<b>1.53</b>	<b>29</b>	<b>0.13</b>	<b>\$65,074.00</b>	<b>\$2,243.94</b>	<b>0.7%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	143	0.3%	0.65	*	*	\$3,866.77	*	0.0%	99%	1%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$1,129.69	*	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	42	0.1%	0.19	*	#VALUE!	\$27,448.31	*	0.3%	79%	21%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	151	0.3%	0.69	29	0.13	\$32,629.63	\$1,125.16	0.3%	81%	19%
<b>Screening Tests</b>	<b>26,721</b>	<b>59.7%</b>	<b>121.56</b>	<b>6,963</b>	<b>31.68</b>	<b>\$2,159,617.00</b>	<b>\$310.16</b>	<b>22.7%</b>	<b>74%</b>	<b>26%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	769	1.7%	3.50	*	*	\$1,168.32	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	19,333	43.2%	87.95	1,232	5.60	\$1,221,078.55	\$991.14	12.8%	94%	6%
Don't perform Pap smears on women with previous hysterectomy	*	*	*	*	*	\$351.82	*	0.0%	71%	29%
Don't perform Pap smears on women younger than 21	154	0.3%	0.70	137	0.62	\$26,321.08	\$192.12	0.3%	11%	89%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,492	5.6%	11.34	2,492	11.34	\$267,147.52	\$107.20	2.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	2,262	5.1%	10.29	1,957	8.90	\$478,647.22	\$244.58	5.0%	13%	87%
Don't perform routine general health checks for asymptomatic adults	820	1.8%	3.73	820	3.73	\$99,738.32	\$121.63	1.0%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	21	0.0%	0.10	21	0.10	\$1,079.28	\$51.39	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	229	0.5%	1.04	59	0.27	\$10,448.56	\$177.09	0.1%	74%	26%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	263	0.6%	1.20	32	0.15	\$10,324.23	\$322.63	0.1%	88%	12%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	378	0.8%	1.72	213	0.97	\$43,311.95	\$203.34	0.5%	44%	56%
<b>Grand Total</b>	<b>44,745</b>	<b>100.0%</b>	<b>203.55</b>	<b>19,407</b>	<b>88.28</b>	<b>\$9,504,719.31</b>	<b>\$489.76</b>	<b>100.0%</b>	<b>57%</b>	<b>43%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2014 Northwest Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results						
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs	Quality Index	Waste Index
<b>Common Treatments</b>	<b>33,637</b>	<b>4.8%</b>	<b>41.83</b>	<b>32,441</b>	<b>40.34</b>	<b>\$3,487,301.00</b>	<b>\$107.50</b>	<b>3.3%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	28,683	4.1%	35.67	27,576	34.29	\$3,345,120.68	\$121.31	3.2%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	59	0.0%	0.07	50	0.06	\$4,787.93	\$95.76	0.0%	15%	85%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	838	0.1%	1.04	758	0.94	\$97,471.02	\$128.59	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$7,107.93	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	4,057	0.6%	5.05	4,057	5.05	\$32,813.19	\$8.09	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>64,532</b>	<b>9.2%</b>	<b>80.25</b>	<b>19,053</b>	<b>23.69</b>	<b>\$32,444,851.00</b>	<b>\$1,702.87</b>	<b>31.1%</b>	<b>70%</b>	<b>30%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	6,774	1.0%	8.42	5,807	7.22	\$2,350,150.34	\$404.71	2.3%	14%	86%
Don't do imaging for uncomplicated headache.	5,048	0.7%	6.28	1,696	2.11	\$2,075,383.43	\$1,223.69	2.0%	66%	34%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	369	0.1%	0.46	359	0.45	\$578,658.38	\$1,611.86	0.6%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	849	0.1%	1.06	318	0.40	\$1,386,721.29	\$4,360.76	1.3%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$372.44	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$126.87	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	562	0.1%	0.70	304	0.38	\$311,512.65	\$1,024.71	0.3%	46%	54%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,487	0.2%	1.85	550	0.68	\$1,065,643.19	\$1,937.53	1.0%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	39,334	5.6%	48.92	4,665	5.80	\$16,400,064.98	\$3,515.56	15.7%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	2,953	0.4%	3.67	1,545	1.92	\$1,196,532.76	\$774.45	1.1%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	123	0.0%	0.15	123	0.15	\$170,362.34	\$1,385.06	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,767	0.3%	2.20	941	1.17	\$2,628,924.81	\$2,793.76	2.5%	47%	53%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$3,791.07	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	280	0.0%	0.35	280	0.35	\$452,552.77	\$1,616.26	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	628	0.1%	0.78	269	0.33	\$229,993.74	\$855.00	0.2%	57%	43%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,899.45	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	4,358	0.6%	5.42	2,196	2.73	\$3,590,160.80	\$1,634.86	3.4%	50%	50%
<b>Disease Approach</b>	<b>7,507</b>	<b>1.1%</b>	<b>9.34</b>	<b>5,950</b>	<b>7.40</b>	<b>\$4,096,222.00</b>	<b>\$688.44</b>	<b>3.9%</b>	<b>21%</b>	<b>79%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	49	0.0%	0.06	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	60	0.0%	0.07	60	0.07	\$167,306.41	\$2,788.44	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	585	0.1%	0.73	585	0.73	\$171,896.66	\$293.84	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	6,813	1.0%	8.47	5,305	6.60	\$3,757,018.48	\$708.20	3.6%	22%	78%
<b>Preoperative evaluation</b>	<b>95,822</b>	<b>13.6%</b>	<b>119.16</b>	<b>77,326</b>	<b>96.16</b>	<b>\$37,904,092.00</b>	<b>\$490.19</b>	<b>36.3%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	80	0.0%	0.10	78	0.10	\$54,224.71	\$695.19	0.1%	3%	98%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	90,767	12.9%	112.88	72,319	89.94	\$35,576,494.42	\$491.94	34.1%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	4,975	0.7%	6.19	4,929	6.13	\$2,273,373.23	\$461.22	2.2%	1%	99%
<b>Routine FU/Monitoring</b>	<b>12,319</b>	<b>1.7%</b>	<b>15.32</b>	<b>1,875</b>	<b>2.33</b>	<b>\$2,672,768.00</b>	<b>\$1,425.48</b>	<b>2.6%</b>	<b>85%</b>	<b>15%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	5,985	0.9%	7.44	180	0.22	\$241,849.64	\$1,343.61	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	136	0.0%	0.17	136	0.17	\$85,903.40	\$631.64	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,171	0.2%	1.46	220	0.27	\$244,857.93	\$1,112.99	0.2%	81%	19%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,027	0.7%	6.25	1,339	1.67	\$2,100,157.35	\$1,568.45	2.0%	73%	27%
<b>Screening Tests</b>	<b>490,166</b>	<b>69.6%</b>	<b>609.57</b>	<b>94,395</b>	<b>117.39</b>	<b>\$23,789,177.00</b>	<b>\$252.02</b>	<b>22.8%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	12,164	1.7%	15.13	66	0.08	\$48,599.80	\$736.36	0.0%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	343,736	48.8%	427.47	15,305	19.03	\$7,052,681.48	\$460.81	6.8%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	395	0.1%	0.49	155	0.19	\$35,273.79	\$227.57	0.0%	61%	39%
Don't perform Pap smears on women younger than 21	432	0.1%	0.54	387	0.48	\$92,134.24	\$238.07	0.1%	10%	90%
Don't perform population based screening for 25-OH-Vitamin D deficiency	22,173	3.1%	27.57	22,173	27.57	\$3,448,229.21	\$155.51	3.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	23,837	3.4%	29.64	19,079	23.73	\$4,488,514.32	\$235.26	4.3%	20%	80%
Don't perform routine general health checks for asymptomatic adults	9,045	1.3%	11.25	9,045	11.25	\$1,548,451.48	\$171.19	1.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	4,252	0.6%	5.29	4,252	5.29	\$470,957.33	\$110.76	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	9,873	1.4%	12.28	1,639	2.04	\$401,534.72	\$244.99	0.4%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	17,420	2.5%	21.66	4,106	5.11	\$1,822,255.40	\$443.80	1.7%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	46,839	6.7%	58.25	18,188	22.62	\$4,380,544.84	\$240.85	4.2%	61%	39%
<b>Grand Total</b>	<b>704,017</b>	<b>100.0%</b>	<b>875.52</b>	<b>231,074</b>	<b>287.37</b>	<b>\$104,394,410.90</b>	<b>\$451.78</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2014 Northwest Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>22,918</b>	<b>8.3%</b>	<b>58.13</b>	<b>22,251</b>	<b>56.43</b>	<b>\$2,783,669.00</b>	<b>\$125.10</b>	<b>5.7%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	22,024	7.9%	55.86	21,407	54.29	\$2,704,228.34	\$126.32	5.6%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	35	0.0%	0.09	31	0.08	\$3,561.00	\$114.87	0.0%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	536	0.2%	1.36	490	1.24	\$71,670.79	\$146.27	0.1%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$139.83	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	323	0.1%	0.82	323	0.82	\$4,069.02	\$12.60	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>20,594</b>	<b>7.4%</b>	<b>52.23</b>	<b>7,934</b>	<b>20.12</b>	<b>\$12,369,592.00</b>	<b>\$1,559.06</b>	<b>25.5%</b>	<b>61%</b>	<b>39%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	3,316	1.2%	8.41	3,041	7.71	\$1,344,339.73	\$442.07	2.8%	8%	92%
Don't do imaging for uncomplicated headache.	2,158	0.8%	5.47	950	2.41	\$1,464,694.15	\$1,541.78	3.0%	56%	44%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	144	0.1%	0.37	141	0.36	\$321,161.42	\$2,277.74	0.7%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	139	0.1%	0.35	72	0.18	\$328,532.07	\$4,562.95	0.7%	48%	52%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$372.44	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$126.87	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	187	0.1%	0.47	109	0.28	\$127,928.18	\$1,173.65	0.3%	42%	58%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	349	0.1%	0.89	133	0.34	\$261,546.66	\$1,966.52	0.5%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	10,509	3.8%	26.65	1,409	3.57	\$4,922,032.93	\$3,493.28	10.2%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,502	0.5%	3.81	786	1.99	\$583,061.68	\$741.81	1.2%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	68	0.0%	0.17	68	0.17	\$107,785.44	\$1,585.08	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	732	0.3%	1.86	345	0.87	\$1,002,777.35	\$2,906.60	2.1%	53%	47%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$761.66	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	104	0.0%	0.26	104	0.26	\$262,133.18	\$2,520.51	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	240	0.1%	0.61	108	0.27	\$138,092.23	\$1,278.63	0.3%	55%	45%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,146	0.4%	2.91	668	1.69	\$1,504,245.67	\$2,251.86	3.1%	42%	58%
<b>Disease Approach</b>	<b>4,560</b>	<b>1.6%</b>	<b>11.57</b>	<b>4,009</b>	<b>10.17</b>	<b>\$3,440,978.00</b>	<b>\$858.31</b>	<b>7.1%</b>	<b>12%</b>	<b>88%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	25	0.0%	0.06	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	42	0.0%	0.11	42	0.11	\$137,275.85	\$3,268.47	0.3%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	311	0.1%	0.79	311	0.79	\$100,577.75	\$323.40	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	4,182	1.5%	10.61	3,656	9.27	\$3,203,123.91	\$876.13	6.6%	13%	87%
<b>Preoperative evaluation</b>	<b>29,737</b>	<b>10.7%</b>	<b>75.42</b>	<b>24,345</b>	<b>61.74</b>	<b>\$12,507,775.00</b>	<b>\$513.77</b>	<b>25.8%</b>	<b>18%</b>	<b>82%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	37	0.0%	0.09	37	0.09	\$35,028.62	\$946.72	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	27,274	9.8%	69.17	21,882	55.50	\$11,544,105.13	\$527.56	23.8%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	2,426	0.9%	6.15	2,426	6.15	\$928,641.46	\$382.79	1.9%	0%	100%
<b>Routine FU/Monitoring</b>	<b>2,691</b>	<b>1.0%</b>	<b>6.82</b>	<b>511</b>	<b>1.30</b>	<b>\$543,890.00</b>	<b>\$1,064.36</b>	<b>1.1%</b>	<b>81%</b>	<b>19%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,127	0.4%	2.86	49	0.12	\$27,302.30	\$557.19	0.1%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	40	0.0%	0.10	40	0.10	\$27,802.93	\$695.07	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	288	0.1%	0.73	68	0.17	\$51,533.47	\$757.85	0.1%	76%	24%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,236	0.4%	3.13	354	0.90	\$437,250.82	\$1,235.17	0.9%	71%	29%
<b>Screening Tests</b>	<b>197,023</b>	<b>71.0%</b>	<b>499.69</b>	<b>67,907</b>	<b>172.23</b>	<b>\$16,827,659.00</b>	<b>\$247.80</b>	<b>34.7%</b>	<b>66%</b>	<b>34%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	4,181	1.5%	10.60	44	0.11	\$23,723.17	\$539.16	0.0%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	116,933	42.1%	296.57	13,191	33.46	\$5,086,292.57	\$385.59	10.5%	89%	11%
Don't perform Pap smears on women with previous hysterectomy	220	0.1%	0.56	110	0.28	\$25,797.58	\$234.52	0.1%	50%	50%
Don't perform Pap smears on women younger than 21	370	0.1%	0.94	333	0.84	\$82,800.70	\$248.65	0.2%	10%	90%
Don't perform population based screening for 25-OH-Vitamin D deficiency	15,934	5.7%	40.41	15,934	40.41	\$2,652,868.17	\$166.49	5.5%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	20,421	7.4%	51.79	16,513	41.88	\$4,104,276.24	\$248.55	8.5%	19%	81%
Don't perform routine general health checks for asymptomatic adults	8,612	3.1%	21.84	8,612	21.84	\$1,497,756.53	\$173.92	3.1%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	500	0.2%	1.27	500	1.27	\$77,706.93	\$155.41	0.2%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	3,393	1.2%	8.61	789	2.00	\$212,352.27	\$269.14	0.4%	77%	23%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	8,683	3.1%	22.02	1,035	2.62	\$325,716.00	\$314.70	0.7%	88%	12%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	17,776	6.4%	45.08	10,846	27.51	\$2,738,369.16	\$252.48	5.6%	39%	61%
<b>Grand Total</b>	<b>277,539</b>	<b>100.0%</b>	<b>703.90</b>	<b>126,973</b>	<b>322.03</b>	<b>\$48,473,562.20</b>	<b>\$381.76</b>	<b>100.0%</b>	<b>54%</b>	<b>46%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 Northwest Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>10,486</b>	<b>18.8%</b>	<b>56.12</b>	<b>9,962</b>	<b>53.31</b>	<b>\$681,219.00</b>	<b>\$68.38</b>	<b>7.6%</b>	<b>5%</b>	<b>95%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	6,431	11.5%	34.42	5,944	31.81	\$618,876.95	\$104.12	6.9%	8%	92%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	24	0.0%	0.13	19	0.10	\$1,226.93	\$64.58	0.0%	21%	79%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	297	0.5%	1.59	265	1.42	\$25,403.17	\$95.86	0.3%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$6,968.10	*	0.1%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	3,734	6.7%	19.98	3,734	19.98	\$28,744.17	\$7.70	0.3%	0%	100%
<b>Diagnostic Testing</b>	<b>6,896</b>	<b>12.3%</b>	<b>36.91</b>	<b>2,357</b>	<b>12.61</b>	<b>\$4,623,069.00</b>	<b>\$1,961.42</b>	<b>51.3%</b>	<b>66%</b>	<b>34%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	458	0.8%	2.45	404	2.16	\$148,255.50	\$366.97	1.6%	12%	88%
Don't do imaging for uncomplicated headache.	1,134	2.0%	6.07	511	2.73	\$324,605.81	\$635.24	3.6%	55%	45%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	43	0.1%	0.23	42	0.22	\$34,216.44	\$814.68	0.4%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	52	0.1%	0.28	28	0.15	\$56,907.18	\$2,032.40	0.6%	46%	54%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	185	0.3%	0.99	82	0.44	\$36,127.74	\$440.58	0.4%	56%	44%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	85	0.2%	0.45	34	0.18	\$37,046.30	\$1,089.60	0.4%	60%	40%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,262	5.8%	17.46	471	2.52	\$3,241,846.53	\$6,882.90	36.0%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	489	0.9%	2.62	76	0.41	\$45,109.05	\$593.54	0.5%	84%	16%
Don't routinely do diagnostic testing in patients with chronic urticaria.	18	0.0%	0.10	18	0.10	\$11,994.56	\$666.36	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	246	0.4%	1.32	152	0.81	\$195,588.98	\$1,286.77	2.2%	38%	62%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	110	0.2%	0.59	110	0.59	\$101,290.46	\$920.82	1.1%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	388	0.7%	2.08	161	0.86	\$91,901.51	\$570.82	1.0%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,899.45	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	426	0.8%	2.28	268	1.43	\$294,279.03	\$1,098.06	3.3%	37%	63%
<b>Disease Approach</b>	<b>2,702</b>	<b>4.8%</b>	<b>14.46</b>	<b>1,717</b>	<b>9.19</b>	<b>\$570,593.00</b>	<b>\$332.32</b>	<b>6.3%</b>	<b>36%</b>	<b>64%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	24	0.0%	0.13	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$4,394.39	*	0.0%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	251	0.4%	1.34	251	1.34	\$67,794.34	\$270.10	0.8%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	2,427	4.3%	12.99	1,466	7.85	\$498,404.16	\$339.98	5.5%	40%	60%
<b>Preoperative evaluation</b>	<b>5,225</b>	<b>9.3%</b>	<b>27.96</b>	<b>4,336</b>	<b>23.21</b>	<b>\$1,399,931.00</b>	<b>\$322.86</b>	<b>15.5%</b>	<b>17%</b>	<b>83%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	20	0.0%	0.11	20	0.11	\$9,184.04	\$459.20	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	4,742	8.5%	25.38	3,853	20.62	\$1,286,214.65	\$333.82	14.3%	19%	81%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	463	0.8%	2.48	463	2.48	\$104,532.57	\$225.77	1.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>462</b>	<b>0.8%</b>	<b>2.47</b>	<b>41</b>	<b>0.22</b>	<b>\$55,052.00</b>	<b>\$1,342.73</b>	<b>0.6%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	193	0.3%	1.03	11	0.06	\$6,305.59	\$573.24	0.1%	94%	6%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$1,407.47	*	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	81	0.1%	0.43	*	*	\$17,172.28	*	0.2%	93%	7%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	188	0.3%	1.01	30	0.16	\$30,166.76	\$1,005.56	0.3%	84%	16%
<b>Screening Tests</b>	<b>30,102</b>	<b>53.8%</b>	<b>161.10</b>	<b>5,457</b>	<b>29.20</b>	<b>\$1,674,630.00</b>	<b>\$306.88</b>	<b>18.6%</b>	<b>82%</b>	<b>18%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	862	1.5%	4.61	*	*	\$4,633.49	*	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	23,320	41.7%	124.80	1,007	5.39	\$1,017,204.70	\$1,010.13	11.3%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	18	0.0%	0.10	12	0.06	\$2,038.97	\$169.91	0.0%	33%	67%
Don't perform Pap smears on women younger than 21	58	0.1%	0.31	50	0.27	\$9,064.03	\$181.28	0.1%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,193	2.1%	6.38	1,193	6.38	\$158,646.64	\$132.98	1.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	3,380	6.0%	18.09	2,538	13.58	\$378,315.64	\$149.06	4.2%	25%	75%
Don't perform routine general health checks for asymptomatic adults	364	0.7%	1.95	364	1.95	\$45,347.68	\$124.58	0.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	*	*	*	*	*	\$271.43	*	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	190	0.3%	1.02	25	0.13	\$6,270.59	\$250.82	0.1%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	399	0.7%	2.14	61	0.33	\$12,625.69	\$206.98	0.1%	85%	15%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	318	0.6%	1.70	207	1.11	\$40,211.00	\$194.26	0.4%	35%	65%
<b>Grand Total</b>	<b>55,902</b>	<b>100.0%</b>	<b>299.18</b>	<b>23,910</b>	<b>127.96</b>	<b>\$9,004,493.97</b>	<b>\$376.60</b>	<b>100.0%</b>	<b>57%</b>	<b>43%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 Southwest Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>54,059</b>	<b>6.0%</b>	<b>58.24</b>	<b>52,043</b>	<b>56.07</b>	<b>\$4,050,300.00</b>	<b>\$77.83</b>	<b>3.4%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	38,935	4.3%	41.94	37,057	39.92	\$3,843,580.43	\$103.72	3.2%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	33	0.0%	0.04	32	0.03	\$2,977.28	\$93.04	0.0%	3%	97%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,075	0.1%	1.16	938	1.01	\$100,546.41	\$107.19	0.1%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	29	0.0%	0.03	29	0.03	\$2,326.08	\$80.21	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	13,987	1.6%	15.07	13,987	15.07	\$100,870.02	\$7.21	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>83,690</b>	<b>9.3%</b>	<b>90.16</b>	<b>25,351</b>	<b>27.31</b>	<b>\$41,733,106.00</b>	<b>\$1,646.21</b>	<b>34.8%</b>	<b>70%</b>	<b>30%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	9,243	1.0%	9.96	7,951	8.57	\$3,234,848.03	\$406.85	2.7%	14%	86%
Don't do imaging for uncomplicated headache.	5,889	0.7%	6.34	1,877	2.02	\$1,714,940.51	\$913.66	1.4%	68%	32%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	643	0.1%	0.69	625	0.67	\$714,810.63	\$1,143.70	0.6%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,112	0.1%	1.20	403	0.43	\$1,984,358.14	\$4,923.97	1.7%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$238.54	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	673	0.1%	0.73	371	0.40	\$307,344.41	\$828.42	0.3%	45%	55%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,920	0.2%	2.07	702	0.76	\$837,016.81	\$1,192.33	0.7%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	51,395	5.7%	55.37	6,410	6.91	\$23,310,981.83	\$3,636.66	19.4%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,683	0.4%	3.97	1,906	2.05	\$950,696.39	\$498.79	0.8%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	109	0.0%	0.12	109	0.12	\$91,681.36	\$841.11	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,848	0.3%	3.07	1,552	1.67	\$4,132,165.09	\$2,662.48	3.4%	46%	54%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$10,707.88	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	527	0.1%	0.57	527	0.57	\$650,127.79	\$1,233.64	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	649	0.1%	0.70	263	0.28	\$153,157.55	\$582.35	0.1%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$8,205.18	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	4,999	0.6%	5.39	2,655	2.86	\$3,631,826.22	\$1,367.92	3.0%	47%	53%
<b>Disease Approach</b>	<b>18,123</b>	<b>2.0%</b>	<b>19.52</b>	<b>13,537</b>	<b>14.58</b>	<b>\$5,198,355.00</b>	<b>\$384.01</b>	<b>4.3%</b>	<b>25%</b>	<b>75%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	25	0.0%	0.03	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	111	0.0%	0.12	111	0.12	\$328,268.97	\$2,957.38	0.3%	0%	100%



Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	1,356	0.2%	1.46	1,356	1.46	\$267,996.86	\$197.64	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	16,631	1.8%	17.92	12,070	13.00	\$4,602,089.01	\$381.28	3.8%	27%	73%
<b>Preoperative evaluation</b>	<b>119,835</b>	<b>13.3%</b>	<b>129.10</b>	<b>95,789</b>	<b>103.19</b>	<b>\$44,428,605.00</b>	<b>\$463.82</b>	<b>37.0%</b>	<b>20%</b>	<b>80%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	56	0.0%	0.06	56	0.06	\$25,861.57	\$461.81	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	113,785	12.6%	122.58	89,800	96.74	\$41,021,301.08	\$456.81	34.2%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	5,994	0.7%	6.46	5,933	6.39	\$3,381,442.64	\$569.94	2.8%	1%	99%
<b>Routine FU/Monitoring</b>	<b>14,112</b>	<b>1.6%</b>	<b>15.20</b>	<b>1,400</b>	<b>1.51</b>	<b>\$2,163,628.00</b>	<b>\$1,545.45</b>	<b>1.8%</b>	<b>90%</b>	<b>10%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	7,137	0.8%	7.69	195	0.21	\$278,630.10	\$1,428.87	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	143	0.0%	0.15	143	0.15	\$88,865.96	\$621.44	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,365	0.2%	1.47	168	0.18	\$150,479.54	\$895.71	0.1%	88%	12%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,467	0.6%	5.89	894	0.96	\$1,645,652.03	\$1,840.77	1.4%	84%	16%
<b>Screening Tests</b>	<b>609,901</b>	<b>67.8%</b>	<b>657.05</b>	<b>87,697</b>	<b>94.48</b>	<b>\$22,453,972.00</b>	<b>\$256.04</b>	<b>18.7%</b>	<b>86%</b>	<b>14%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	14,098	1.6%	15.19	64	0.07	\$74,211.82	\$1,159.56	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	452,802	50.3%	487.80	13,123	14.14	\$7,171,442.18	\$546.48	6.0%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	570	0.1%	0.61	219	0.24	\$46,982.10	\$214.53	0.0%	62%	38%
Don't perform Pap smears on women younger than 21	723	0.1%	0.78	585	0.63	\$109,817.53	\$187.72	0.1%	19%	81%
Don't perform population based screening for 25-OH-Vitamin D deficiency	15,084	1.7%	16.25	15,084	16.25	\$2,106,274.82	\$139.64	1.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	22,616	2.5%	24.36	16,553	17.83	\$3,572,612.17	\$215.83	3.0%	27%	73%
Don't perform routine general health checks for asymptomatic adults	8,029	0.9%	8.65	8,029	8.65	\$1,292,514.05	\$160.98	1.1%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,151	0.6%	5.55	5,151	5.55	\$557,223.81	\$108.18	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	13,617	1.5%	14.67	1,907	2.05	\$386,867.64	\$202.87	0.3%	86%	14%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	24,793	2.8%	26.71	6,414	6.91	\$2,649,410.83	\$413.07	2.2%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	52,418	5.8%	56.47	20,568	22.16	\$4,486,615.09	\$218.14	3.7%	61%	39%
<b>Grand Total</b>	<b>899,747</b>	<b>100.0%</b>	<b>969.30</b>	<b>275,844</b>	<b>297.17</b>	<b>\$120,027,966.38</b>	<b>\$435.13</b>	<b>100.0%</b>	<b>69%</b>	<b>31%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2014 Southwest Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>21,708</b>	<b>8.5%</b>	<b>70.04</b>	<b>20,981</b>	<b>67.69</b>	<b>\$2,387,327.00</b>	<b>\$113.79</b>	<b>6.4%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	20,630	8.1%	66.56	19,961	64.40	\$2,328,271.77	\$116.64	6.3%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	16	0.0%	0.05	15	0.05	\$1,704.69	\$113.65	0.0%	6%	94%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	456	0.2%	1.47	399	1.29	\$47,436.56	\$118.89	0.1%	13%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$525.68	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	606	0.2%	1.96	606	1.96	\$9,388.01	\$15.49	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>20,140</b>	<b>7.9%</b>	<b>64.98</b>	<b>7,553</b>	<b>24.37</b>	<b>\$9,731,650.00</b>	<b>\$1,288.45</b>	<b>26.2%</b>	<b>62%</b>	<b>38%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	3,454	1.4%	11.14	3,114	10.05	\$1,166,180.19	\$374.50	3.1%	10%	90%
Don't do imaging for uncomplicated headache.	1,644	0.6%	5.30	650	2.10	\$950,614.60	\$1,462.48	2.6%	60%	40%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	134	0.1%	0.43	130	0.42	\$246,315.15	\$1,894.73	0.7%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	162	0.1%	0.52	76	0.25	\$418,810.81	\$5,510.67	1.1%	53%	47%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$238.54	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	160	0.1%	0.52	94	0.30	\$69,408.31	\$738.39	0.2%	41%	59%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	338	0.1%	1.09	117	0.38	\$181,517.24	\$1,551.43	0.5%	65%	35%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	11,011	4.3%	35.53	1,526	4.92	\$3,906,796.44	\$2,560.15	10.5%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,336	0.5%	4.31	736	2.37	\$359,308.51	\$488.19	1.0%	45%	55%
Don't routinely do diagnostic testing in patients with chronic urticaria.	51	0.0%	0.16	51	0.16	\$41,815.68	\$819.92	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	708	0.3%	2.28	359	1.16	\$1,071,143.81	\$2,983.69	2.9%	49%	51%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	#VALUE!	\$1,567.27	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	105	0.0%	0.34	105	0.34	\$214,400.57	\$2,041.91	0.6%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	142	0.1%	0.46	55	0.18	\$66,910.30	\$1,216.55	0.2%	61%	39%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,563.82	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	895	0.4%	2.89	540	1.74	\$1,033,058.50	\$1,913.07	2.8%	40%	60%
<b>Disease Approach</b>	<b>5,457</b>	<b>2.1%</b>	<b>17.61</b>	<b>4,935</b>	<b>15.92</b>	<b>\$2,521,300.00</b>	<b>\$510.90</b>	<b>6.8%</b>	<b>10%</b>	<b>90%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	58	0.0%	0.19	58	0.19	\$215,129.52	\$3,709.13	0.6%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	369	0.1%	1.19	369	1.19	\$83,355.25	\$225.89	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	5,030	2.0%	16.23	4,508	14.54	\$2,222,815.23	\$493.08	6.0%	10%	90%
<b>Preoperative evaluation</b>	<b>28,533</b>	<b>11.2%</b>	<b>92.06</b>	<b>22,819</b>	<b>73.62</b>	<b>\$11,303,517.00</b>	<b>\$495.36</b>	<b>30.5%</b>	<b>20%</b>	<b>80%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	14	0.0%	0.05	14	0.05	\$6,297.44	\$449.82	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	26,538	10.4%	85.62	20,824	67.19	\$10,195,049.94	\$489.58	27.5%	22%	78%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,981	0.8%	6.39	1,981	6.39	\$1,102,169.12	\$556.37	3.0%	0%	100%
<b>Routine FU/Monitoring</b>	<b>2,822</b>	<b>1.1%</b>	<b>9.11</b>	<b>391</b>	<b>1.26</b>	<b>\$429,535.00</b>	<b>\$1,098.56</b>	<b>1.2%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,248	0.5%	4.03	55	0.18	\$43,238.10	\$786.15	0.1%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	40	0.0%	0.13	40	0.13	\$26,728.50	\$668.21	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	315	0.1%	1.02	60	0.19	\$37,255.33	\$620.92	0.1%	81%	19%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,219	0.5%	3.93	236	0.76	\$322,313.19	\$1,365.73	0.9%	81%	19%
<b>Screening Tests</b>	<b>175,297</b>	<b>69.0%</b>	<b>565.59</b>	<b>48,150</b>	<b>155.35</b>	<b>\$10,744,284.00</b>	<b>\$223.14</b>	<b>28.9%</b>	<b>73%</b>	<b>27%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	3,843	1.5%	12.40	15	0.05	\$9,306.71	\$620.45	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	111,725	44.0%	360.48	8,413	27.14	\$2,851,530.91	\$338.94	7.7%	92%	8%
Don't perform Pap smears on women with previous hysterectomy	256	0.1%	0.83	141	0.45	\$30,603.92	\$217.05	0.1%	45%	55%
Don't perform Pap smears on women younger than 21	282	0.1%	0.91	224	0.72	\$49,293.36	\$220.06	0.1%	21%	79%
Don't perform population based screening for 25-OH-Vitamin D deficiency	8,703	3.4%	28.08	8,703	28.08	\$1,333,758.28	\$153.25	3.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	15,885	6.3%	51.25	12,012	38.76	\$2,547,592.86	\$212.09	6.9%	24%	76%
Don't perform routine general health checks for asymptomatic adults	7,461	2.9%	24.07	7,461	24.07	\$1,225,992.88	\$164.32	3.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	557	0.2%	1.80	557	1.80	\$86,076.99	\$154.54	0.2%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	3,425	1.3%	11.05	765	2.47	\$181,111.79	\$236.75	0.5%	78%	22%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	8,790	3.5%	28.36	956	3.08	\$418,188.23	\$437.44	1.1%	89%	11%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	14,370	5.7%	46.36	8,903	28.73	\$2,010,828.06	\$225.86	5.4%	38%	62%
<b>Grand Total</b>	<b>253,983</b>	<b>100.0%</b>	<b>819.46</b>	<b>104,850</b>	<b>338.29</b>	<b>\$37,117,612.06</b>	<b>\$354.01</b>	<b>100.0%</b>	<b>59%</b>	<b>41%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 Southwest Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>30,805</b>	<b>23.3%</b>	<b>105.81</b>	<b>29,572</b>	<b>101.57</b>	<b>\$1,486,678.00</b>	<b>\$50.27</b>	<b>7.5%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	16,816	12.7%	57.76	15,649	53.75	\$1,344,540.46	\$85.92	6.8%	7%	93%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	17	0.0%	0.06	17	0.06	\$1,272.59	\$74.86	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	569	0.4%	1.95	503	1.73	\$47,582.82	\$94.60	0.2%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	22	0.0%	0.08	22	0.08	\$1,800.40	\$81.84	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	13,381	10.1%	45.96	13,381	45.96	\$91,482.01	\$6.84	0.5%	0%	100%
<b>Diagnostic Testing</b>	<b>14,068</b>	<b>10.6%</b>	<b>48.32</b>	<b>5,061</b>	<b>17.38</b>	<b>\$9,581,764.00</b>	<b>\$1,893.26</b>	<b>48.2%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,222	0.9%	4.20	1,128	3.87	\$609,188.99	\$540.06	3.1%	8%	92%
Don't do imaging for uncomplicated headache.	1,732	1.3%	5.95	792	2.72	\$373,798.63	\$471.97	1.9%	54%	46%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	121	0.1%	0.42	121	0.42	\$75,169.17	\$621.23	0.4%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	107	0.1%	0.37	48	0.16	\$245,242.91	\$5,109.23	1.2%	55%	45%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	257	0.2%	0.88	127	0.44	\$42,165.59	\$332.01	0.2%	51%	49%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	167	0.1%	0.57	60	0.21	\$37,234.99	\$620.58	0.2%	64%	36%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	7,024	5.3%	24.13	1,187	4.08	\$6,552,327.35	\$5,520.07	32.9%	83%	17%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,112	0.8%	3.82	181	0.62	\$66,314.56	\$366.38	0.3%	84%	16%
Don't routinely do diagnostic testing in patients with chronic urticaria.	23	0.0%	0.08	23	0.08	\$20,879.88	\$907.82	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	690	0.5%	2.37	380	1.31	\$667,985.73	\$1,757.86	3.4%	45%	55%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	265	0.2%	0.91	265	0.91	\$218,989.13	\$826.37	1.1%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	506	0.4%	1.74	208	0.71	\$86,247.25	\$414.65	0.4%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$4,641.36	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	842	0.6%	2.89	541	1.86	\$581,578.44	\$1,075.01	2.9%	36%	64%
<b>Disease Approach</b>	<b>10,460</b>	<b>7.9%</b>	<b>35.93</b>	<b>6,546</b>	<b>22.48</b>	<b>\$1,946,872.00</b>	<b>\$297.41</b>	<b>9.8%</b>	<b>37%</b>	<b>63%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	19	0.0%	0.07	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	18	0.0%	0.06	18	0.06	\$17,558.75	\$975.49	0.1%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	921	0.7%	3.16	921	3.16	\$158,545.31	\$172.14	0.8%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	9,502	7.2%	32.64	5,607	19.26	\$1,770,767.59	\$315.81	8.9%	41%	59%
<b>Preoperative evaluation</b>	<b>10,195</b>	<b>7.7%</b>	<b>35.02</b>	<b>8,720</b>	<b>29.95</b>	<b>\$2,157,818.00</b>	<b>\$247.46</b>	<b>10.9%</b>	<b>14%</b>	<b>86%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	36	0.0%	0.12	36	0.12	\$14,982.06	\$416.17	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	8,939	6.8%	30.70	7,464	25.64	\$1,907,467.69	\$255.56	9.6%	17%	83%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,220	0.9%	4.19	1,220	4.19	\$235,367.84	\$192.92	1.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>905</b>	<b>0.7%</b>	<b>3.11</b>	<b>62</b>	<b>0.21</b>	<b>\$61,223.00</b>	<b>\$987.46</b>	<b>0.3%</b>	<b>93%</b>	<b>7%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	419	0.3%	1.44	*	#VALUE!	\$4,223.38	*	0.0%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	13	0.0%	0.04	13	0.04	\$7,473.29	\$574.87	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	125	0.1%	0.43	*	#VALUE!	\$6,007.46	*	0.0%	93%	7%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	348	0.3%	1.20	49	0.17	\$43,518.69	\$888.14	0.2%	86%	14%
<b>Screening Tests</b>	<b>65,976</b>	<b>49.8%</b>	<b>226.61</b>	<b>11,343</b>	<b>38.96</b>	<b>\$4,653,191.00</b>	<b>\$410.23</b>	<b>23.4%</b>	<b>83%</b>	<b>17%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,645	1.2%	5.65	43	0.15	\$59,153.43	\$1,375.66	0.3%	97%	3%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	52,214	39.4%	179.34	3,383	11.62	\$3,133,473.67	\$926.24	15.8%	94%	6%
Don't perform Pap smears on women with previous hysterectomy	71	0.1%	0.24	34	0.12	\$9,045.75	\$266.05	0.0%	52%	48%
Don't perform Pap smears on women younger than 21	433	0.3%	1.49	354	1.22	\$59,867.95	\$169.12	0.3%	18%	82%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,622	1.2%	5.57	1,622	5.57	\$127,408.95	\$78.55	0.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	6,647	5.0%	22.83	4,465	15.34	\$1,011,333.65	\$226.50	5.1%	33%	67%
Don't perform routine general health checks for asymptomatic adults	395	0.3%	1.36	395	1.36	\$49,681.21	\$125.78	0.2%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	15	0.0%	0.05	15	0.05	\$483.02	\$32.20	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	469	0.4%	1.61	74	0.25	\$11,709.68	\$158.24	0.1%	84%	16%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	1,231	0.9%	4.23	191	0.66	\$43,856.60	\$229.62	0.2%	84%	16%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	1,234	0.9%	4.24	767	2.63	\$147,176.94	\$191.89	0.7%	38%	62%
<b>Grand Total</b>	<b>132,415</b>	<b>100.0%</b>	<b>454.82</b>	<b>61,328</b>	<b>210.65</b>	<b>\$19,887,545.17</b>	<b>\$324.28</b>	<b>100.0%</b>	<b>54%</b>	<b>46%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 ACO Rating 1 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>4,786</b>	<b>5.2%</b>	<b>44.89</b>	<b>4,605</b>	<b>43.19</b>	<b>\$368,555.00</b>	<b>\$80.03</b>	<b>2.8%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	3,763	4.1%	35.29	3,590	33.67	\$352,716.50	\$98.25	2.6%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$374.43	*	0.0%	20%	80%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	99	0.1%	0.93	91	0.85	\$8,757.03	\$96.23	0.1%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	924	1.0%	8.67	924	8.67	\$6,706.79	\$7.26	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>8,085</b>	<b>8.7%</b>	<b>75.83</b>	<b>2,481</b>	<b>23.27</b>	<b>\$3,577,292.00</b>	<b>\$1,441.88</b>	<b>26.7%</b>	<b>69%</b>	<b>31%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,001	1.1%	9.39	878	8.23	\$669,613.27	\$762.66	5.0%	12%	88%
Don't do imaging for uncomplicated headache.	573	0.6%	5.37	191	1.79	\$236,127.37	\$1,236.27	1.8%	67%	33%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	67	0.1%	0.63	65	0.61	\$90,210.98	\$1,387.86	0.7%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	113	0.1%	1.06	44	0.41	\$190,950.29	\$4,339.78	1.4%	61%	39%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	88	0.1%	0.83	38	0.36	\$23,917.26	\$629.40	0.2%	57%	43%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	184	0.2%	1.73	68	0.64	\$105,440.26	\$1,550.59	0.8%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,966	5.4%	46.57	586	5.50	\$1,449,787.29	\$2,474.04	10.8%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	309	0.3%	2.90	157	1.47	\$91,492.72	\$582.76	0.7%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	11	0.0%	0.10	11	0.10	\$9,838.72	\$894.43	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	223	0.2%	2.09	114	1.07	\$305,711.26	\$2,681.68	2.3%	49%	51%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	54	0.1%	0.51	54	0.51	\$62,996.74	\$1,166.61	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	69	0.1%	0.65	32	0.30	\$24,915.71	\$778.62	0.2%	54%	46%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	427	0.5%	4.00	243	2.28	\$316,290.49	\$1,301.61	2.4%	43%	57%
<b>Disease Approach</b>	<b>1,383</b>	<b>1.5%</b>	<b>12.97</b>	<b>1,138</b>	<b>10.67</b>	<b>\$624,479.00</b>	<b>\$548.75</b>	<b>4.7%</b>	<b>18%</b>	<b>82%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	34	0.0%	0.32	34	0.32	\$114,734.83	\$3,374.55	0.9%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	187	0.2%	1.75	187	1.75	\$35,930.37	\$192.14	0.3%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,162	1.3%	10.90	917	8.60	\$473,813.33	\$516.70	3.5%	21%	79%
<b>Preoperative evaluation</b>	<b>14,266</b>	<b>15.4%</b>	<b>133.79</b>	<b>11,846</b>	<b>111.10</b>	<b>\$6,227,904.00</b>	<b>\$525.74</b>	<b>46.6%</b>	<b>17%</b>	<b>83%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$3,654.67	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	13,406	14.5%	125.73	10,997	103.14	\$5,525,328.44	\$502.44	41.3%	18%	82%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	860	0.9%	8.07	849	7.96	\$698,920.86	\$823.23	5.2%	1%	99%
<b>Routine FU/Monitoring</b>	<b>1,644</b>	<b>1.8%</b>	<b>15.42</b>	<b>143</b>	<b>1.34</b>	<b>\$141,751.00</b>	<b>\$991.26</b>	<b>1.1%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	840	0.9%	7.88	41	0.38	\$17,780.66	\$433.67	0.1%	95%	5%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$7,914.79	*	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	184	0.2%	1.73	22	0.21	\$17,193.36	\$781.52	0.1%	88%	12%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	620	0.7%	5.81	80	0.75	\$98,861.91	\$1,235.77	0.7%	87%	13%
<b>Screening Tests</b>	<b>62,527</b>	<b>67.4%</b>	<b>586.41</b>	<b>10,386</b>	<b>97.41</b>	<b>\$2,435,683.00</b>	<b>\$234.52</b>	<b>18.2%</b>	<b>83%</b>	<b>17%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,710	1.8%	16.04	*	*	\$14,657.84	*	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	45,787	49.4%	429.42	1,807	16.95	\$690,362.56	\$382.05	5.2%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	74	0.1%	0.69	29	0.27	\$9,114.82	\$314.30	0.1%	61%	39%
Don't perform Pap smears on women younger than 21	80	0.1%	0.75	65	0.61	\$14,554.25	\$223.91	0.1%	19%	81%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,444	1.6%	13.54	1,444	13.54	\$148,114.09	\$102.57	1.1%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	3,040	3.3%	28.51	2,279	21.37	\$459,600.30	\$201.67	3.4%	25%	75%
Don't perform routine general health checks for asymptomatic adults	1,326	1.4%	12.44	1,326	12.44	\$223,496.84	\$168.55	1.7%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	419	0.5%	3.93	419	3.93	\$33,554.70	\$80.08	0.3%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	832	0.9%	7.80	174	1.63	\$59,049.29	\$339.36	0.4%	79%	21%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,125	2.3%	19.93	533	5.00	\$302,588.53	\$567.71	2.3%	75%	25%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	5,690	6.1%	53.36	2,310	21.66	\$480,589.55	\$208.05	3.6%	59%	41%
<b>Grand Total</b>	<b>92,712</b>	<b>100.0%</b>	<b>869.51</b>	<b>30,624</b>	<b>287.21</b>	<b>\$13,375,663.10</b>	<b>\$436.77</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 ACO Rating 2 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,070</b>	<b>2.6%</b>	<b>21.37</b>	<b>2,998</b>	<b>20.87</b>	<b>\$333,077.00</b>	<b>\$111.10</b>	<b>2.2%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,623	2.2%	18.26	2,557	17.80	\$318,865.11	\$124.70	2.1%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$1,161.26	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	92	0.1%	0.64	86	0.60	\$9,990.75	\$116.17	0.1%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$11.27	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	355	0.3%	2.47	355	2.47	\$3,048.47	\$8.59	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>7,660</b>	<b>6.4%</b>	<b>53.32</b>	<b>2,308</b>	<b>16.07</b>	<b>\$3,232,961.00</b>	<b>\$1,400.76</b>	<b>21.1%</b>	<b>70%</b>	<b>30%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	766	0.6%	5.33	655	4.56	\$270,889.33	\$413.57	1.8%	14%	86%
Don't do imaging for uncomplicated headache.	683	0.6%	4.75	180	1.25	\$210,640.96	\$1,170.23	1.4%	74%	26%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	41	0.0%	0.29	41	0.29	\$54,605.32	\$1,331.84	0.4%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	142	0.1%	0.99	51	0.35	\$243,419.67	\$4,772.93	1.6%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$33.39	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$113.36	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	91	0.1%	0.63	64	0.45	\$61,554.46	\$961.79	0.4%	30%	70%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	137	0.1%	0.95	45	0.31	\$71,603.54	\$1,591.19	0.5%	67%	33%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,146	3.5%	28.86	440	3.06	\$1,231,686.01	\$2,799.29	8.0%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	690	0.6%	4.80	356	2.48	\$195,069.66	\$547.95	1.3%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	35	0.0%	0.24	35	0.24	\$30,372.86	\$867.80	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	220	0.2%	1.53	116	0.81	\$326,886.52	\$2,817.99	2.1%	47%	53%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$111.55	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	22	0.0%	0.15	22	0.15	\$52,709.46	\$2,395.88	0.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	58	0.0%	0.40	18	0.13	\$18,263.78	\$1,014.65	0.1%	69%	31%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	629	0.5%	4.38	285	1.98	\$465,001.29	\$1,631.58	3.0%	55%	45%
<b>Disease Approach</b>	<b>1,042</b>	<b>0.9%</b>	<b>7.25</b>	<b>692</b>	<b>4.82</b>	<b>\$471,262.00</b>	<b>\$681.01</b>	<b>3.1%</b>	<b>34%</b>	<b>66%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$16,173.04	*	0.1%	0%	100%



Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	84	0.1%	0.58	84	0.58	\$48,392.09	\$576.10	0.3%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	958	0.8%	6.67	608	4.23	\$406,696.48	\$668.91	2.7%	37%	63%
<b>Preoperative evaluation</b>	<b>17,236</b>	<b>14.5%</b>	<b>119.97</b>	<b>13,942</b>	<b>97.04</b>	<b>\$6,042,208.00</b>	<b>\$433.38</b>	<b>39.4%</b>	<b>19%</b>	<b>81%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	14	0.0%	0.10	14	0.10	\$7,573.66	\$540.98	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	16,264	13.7%	113.21	12,981	90.36	\$5,688,738.18	\$438.24	37.1%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	958	0.8%	6.67	947	6.59	\$345,896.26	\$365.25	2.3%	1%	99%
<b>Routine FU/Monitoring</b>	<b>1,691</b>	<b>1.4%</b>	<b>11.77</b>	<b>203</b>	<b>1.41</b>	<b>\$302,665.00</b>	<b>\$1,490.96</b>	<b>2.0%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	953	0.8%	6.63	56	0.39	\$42,410.02	\$757.32	0.3%	94%	6%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	20	0.0%	0.14	20	0.14	\$10,266.29	\$513.31	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	128	0.1%	0.89	13	0.09	\$9,911.22	\$762.40	0.1%	90%	10%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	590	0.5%	4.11	114	0.79	\$240,077.85	\$2,105.95	1.6%	81%	19%
<b>Screening Tests</b>	<b>88,162</b>	<b>74.1%</b>	<b>613.66</b>	<b>16,479</b>	<b>114.70</b>	<b>\$4,952,382.00</b>	<b>\$300.53</b>	<b>32.3%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,570	1.3%	10.93	11	0.08	\$6,825.04	\$620.46	0.0%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	62,265	52.4%	433.40	3,196	22.25	\$1,610,625.29	\$503.95	10.5%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	58	0.0%	0.40	24	0.17	\$7,533.37	\$313.89	0.0%	59%	41%
Don't perform Pap smears on women younger than 21	59	0.0%	0.41	52	0.36	\$15,581.43	\$299.64	0.1%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	3,075	2.6%	21.40	3,075	21.40	\$583,652.62	\$189.81	3.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	4,748	4.0%	33.05	3,740	26.03	\$1,111,864.08	\$297.29	7.3%	21%	79%
Don't perform routine general health checks for asymptomatic adults	1,709	1.4%	11.90	1,709	11.90	\$310,966.42	\$181.96	2.0%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	526	0.4%	3.66	526	3.66	\$67,726.87	\$128.76	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	1,910	1.6%	13.29	263	1.83	\$69,401.23	\$263.88	0.5%	86%	14%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,695	2.3%	18.76	703	4.89	\$291,719.40	\$414.96	1.9%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	9,547	8.0%	66.45	3,180	22.13	\$876,486.66	\$275.62	5.7%	67%	33%
<b>Grand Total</b>	<b>118,898</b>	<b>100.0%</b>	<b>827.60</b>	<b>36,651</b>	<b>255.11</b>	<b>\$15,334,555.52</b>	<b>\$418.39</b>	<b>100.0%</b>	<b>69%</b>	<b>31%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2014 ACO Rating 3 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>4,692</b>	<b>5.5%</b>	<b>65.12</b>	<b>4,530</b>	<b>63</b>	<b>\$264,562.00</b>	<b>\$58.40</b>	<b>2.7%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,343	2.7%	32.52	2,187	30	\$231,788.83	\$105.98	2.4%	7%	93%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$125.79	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	83	0.1%	1.15	77	1	\$7,378.63	\$95.83	0.1%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$437.55	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	2,266	2.6%	31.45	2,266	31	\$24,831.39	\$10.96	0.3%	0%	100%
<b>Diagnostic Testing</b>	<b>7,404</b>	<b>8.6%</b>	<b>102.75</b>	<b>2,423</b>	<b>34</b>	<b>\$4,133,854.00</b>	<b>\$1,706.09</b>	<b>42.4%</b>	<b>67%</b>	<b>33%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,066	1.2%	14.79	961	13	\$254,470.82	\$264.80	2.6%	10%	90%
Don't do imaging for uncomplicated headache.	479	0.6%	6.65	164	2	\$128,708.43	\$784.81	1.3%	66%	34%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	75	0.1%	1.04	72	1	\$75,584.01	\$1,049.78	0.8%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	55	0.1%	0.76	13	0	\$74,228.22	\$5,709.86	0.8%	76%	24%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	-	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	107	0.1%	1.48	68	1	\$35,179.09	\$517.34	0.4%	36%	64%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	223	0.3%	3.09	103	1	\$87,919.42	\$853.59	0.9%	54%	46%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,177	4.9%	57.97	373	5	\$2,495,780.63	\$6,691.10	25.6%	91%	9%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	352	0.4%	4.89	176	2	\$64,001.89	\$363.65	0.7%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	14	0.0%	0.19	14	0	\$5,376.01	\$384.00	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	280	0.3%	3.89	153	2	\$537,713.68	\$3,514.47	5.5%	45%	55%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	-	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	31	0.0%	0.43	31	0	\$35,704.02	\$1,151.74	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	43	0.1%	0.60	18	0	\$6,458.68	\$358.82	0.1%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$1,575.93	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	502	0.6%	6.97	277	4	\$331,153.66	\$1,195.50	3.4%	45%	55%
<b>Disease Approach</b>	<b>1,567</b>	<b>1.8%</b>	<b>21.75</b>	<b>1,098</b>	<b>15</b>	<b>\$386,222.00</b>	<b>\$351.75</b>	<b>4.0%</b>	<b>30%</b>	<b>70%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$4,042.40	*	0.0%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	57	0.1%	0.79	57	1	\$13,938.32	\$244.53	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,510	1.8%	20.96	1,041	14	\$368,241.66	\$353.74	3.8%	31%	69%
<b>Preoperative evaluation</b>	<b>10,520</b>	<b>12.2%</b>	<b>146.00</b>	<b>8,191</b>	<b>114</b>	<b>\$3,383,938.00</b>	<b>\$413.13</b>	<b>34.7%</b>	<b>22%</b>	<b>78%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$856.47	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	10,203	11.9%	141.60	7,881	109	\$3,249,720.28	\$412.35	33.3%	23%	77%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	317	0.4%	4.40	310	4	\$133,361.39	\$430.20	1.4%	2%	98%
<b>Routine FU/Monitoring</b>	<b>1,286</b>	<b>1.5%</b>	<b>17.85</b>	<b>98</b>	<b>1</b>	<b>\$141,033.00</b>	<b>\$1,439.11</b>	<b>1.4%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	704	0.8%	9.77	11	0	\$9,482.79	\$862.07	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	26	0.0%	0.36	26	0	\$13,761.16	\$529.28	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	89	0.1%	1.24	11	0	\$8,552.24	\$777.48	0.1%	88%	12%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	467	0.5%	6.48	50	1	\$109,236.82	\$2,184.74	1.1%	89%	11%
<b>Screening Tests</b>	<b>60,435</b>	<b>70.3%</b>	<b>838.72</b>	<b>6,272</b>	<b>87</b>	<b>\$1,447,948.00</b>	<b>\$230.86</b>	<b>14.8%</b>	<b>90%</b>	<b>10%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	968	1.1%	13.43	-	-	\$0.00	\$0.00	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	48,122	56.0%	667.84	684	9	\$374,732.55	\$547.85	3.8%	99%	1%
Don't perform Pap smears on women with previous hysterectomy	25	0.0%	0.35	*	*	\$2,037.71	*	0.0%	64%	36%
Don't perform Pap smears on women younger than 21	58	0.1%	0.80	31	0	\$5,460.77	\$176.15	0.1%	47%	53%
Don't perform population based screening for 25-OH-Vitamin D deficiency	934	1.1%	12.96	934	13	\$122,229.93	\$130.87	1.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	1,761	2.0%	24.44	1,194	17	\$244,253.99	\$204.57	2.5%	32%	68%
Don't perform routine general health checks for asymptomatic adults	346	0.4%	4.80	346	5	\$59,515.05	\$172.01	0.6%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	508	0.6%	7.05	508	7	\$74,064.56	\$145.80	0.8%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	799	0.9%	11.09	92	1	\$13,867.87	\$150.74	0.1%	88%	12%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	3,006	3.5%	41.72	850	12	\$210,677.63	\$247.86	2.2%	72%	28%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,908	4.5%	54.24	1,633	23	\$341,108.05	\$208.88	3.5%	58%	42%
<b>Grand Total</b>	<b>85,922</b>	<b>100.0%</b>	<b>1192.43</b>	<b>22,636</b>	<b>1,192</b>	<b>\$9,757,558.32</b>	<b>\$431.06</b>	<b>100.0%</b>	<b>74%</b>	<b>26%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 ACO Rating 4 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,531</b>	<b>6.2%</b>	<b>51.05</b>	<b>3,435</b>	<b>49.66</b>	<b>\$331,279.00</b>	<b>\$96.44</b>	<b>3.2%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,957	5.2%	42.75	2,866	41.44	\$319,811.23	\$111.59	3.1%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$673.00	*	0.0%	13%	88%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	71	0.1%	1.03	66	0.95	\$7,810.97	\$118.35	0.1%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	503	0.9%	7.27	503	7.27	\$2,983.66	\$5.93	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>6,553</b>	<b>11.6%</b>	<b>94.74</b>	<b>1,692</b>	<b>24.46</b>	<b>\$3,255,813.00</b>	<b>\$1,924.24</b>	<b>31.3%</b>	<b>74%</b>	<b>26%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	540	1.0%	7.81	434	6.27	\$210,097.22	\$484.09	2.0%	20%	80%
Don't do imaging for uncomplicated headache.	498	0.9%	7.20	137	1.98	\$172,243.10	\$1,257.25	1.7%	72%	28%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	25	0.0%	0.36	25	0.36	\$20,979.21	\$839.17	0.2%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	79	0.1%	1.14	21	0.30	\$77,754.60	\$3,702.60	0.7%	73%	27%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$143.12	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	48	0.1%	0.69	20	0.29	\$23,783.22	\$1,189.16	0.2%	58%	42%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	167	0.3%	2.41	47	0.68	\$109,106.11	\$2,321.41	1.1%	72%	28%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,104	7.2%	59.33	498	7.20	\$1,647,702.93	\$3,308.64	15.9%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	294	0.5%	4.25	148	2.14	\$96,180.73	\$649.87	0.9%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	16	0.0%	0.23	16	0.23	\$27,771.87	\$1,735.74	0.3%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	175	0.3%	2.53	93	1.34	\$458,735.39	\$4,932.64	4.4%	47%	53%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	30	0.1%	0.43	30	0.43	\$55,816.43	\$1,860.55	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	57	0.1%	0.82	24	0.35	\$14,572.61	\$607.19	0.1%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	520	0.9%	7.52	199	2.88	\$340,926.11	\$1,713.20	3.3%	62%	38%
<b>Disease Approach</b>	<b>691</b>	<b>1.2%</b>	<b>9.99</b>	<b>505</b>	<b>7.30</b>	<b>\$291,872.00</b>	<b>\$577.96</b>	<b>2.8%</b>	<b>27%</b>	<b>73%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$13,926.17	*	0.1%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	39	0.1%	0.56	39	0.56	\$11,547.38	\$296.09	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	652	1.1%	9.43	466	6.74	\$266,398.18	\$571.67	2.6%	29%	71%
<b>Preoperative evaluation</b>	<b>7,541</b>	<b>13.3%</b>	<b>109.02</b>	<b>6,414</b>	<b>92.73</b>	<b>\$4,399,280.00</b>	<b>\$685.89</b>	<b>42.3%</b>	<b>15%</b>	<b>85%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	13	0.0%	0.19	13	0.19	\$8,066.56	\$620.50	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,072	12.5%	102.24	5,947	85.98	\$4,048,367.40	\$680.74	39.0%	16%	84%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	456	0.8%	6.59	454	6.56	\$342,845.97	\$755.17	3.3%	0%	100%
<b>Routine FU/Monitoring</b>	<b>932</b>	<b>1.6%</b>	<b>13.47</b>	<b>72</b>	<b>1.04</b>	<b>\$192,397.00</b>	<b>\$2,672.18</b>	<b>1.9%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	496	0.9%	7.17	14	0.20	\$89,016.11	\$6,358.29	0.9%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$4,763.18	*	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	103	0.2%	1.49	11	0.16	\$26,252.25	\$2,386.57	0.3%	89%	11%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	333	0.6%	4.81	47	0.68	\$72,365.26	\$1,539.69	0.7%	86%	14%
<b>Screening Tests</b>	<b>37,453</b>	<b>66.0%</b>	<b>541.48</b>	<b>7,684</b>	<b>111.09</b>	<b>\$1,918,918.00</b>	<b>\$249.73</b>	<b>18.5%</b>	<b>79%</b>	<b>21%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	975	1.7%	14.10	*	#VALUE!	\$1,483.98	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	25,557	45.1%	369.49	1,194	17.26	\$527,242.80	\$441.58	5.1%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	34	0.1%	0.49	13	0.19	\$2,724.61	\$209.59	0.0%	62%	38%
Don't perform Pap smears on women younger than 21	40	0.1%	0.58	38	0.55	\$8,701.84	\$229.00	0.1%	5%	95%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,484	2.6%	21.46	1,484	21.46	\$254,680.98	\$171.62	2.5%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	2,089	3.7%	30.20	1,613	23.32	\$322,266.44	\$199.79	3.1%	23%	77%
Don't perform routine general health checks for asymptomatic adults	736	1.3%	10.64	736	10.64	\$132,185.91	\$179.60	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	531	0.9%	7.68	531	7.68	\$72,296.87	\$136.15	0.7%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	802	1.4%	11.59	137	1.98	\$26,380.97	\$192.56	0.3%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,166	3.8%	31.32	530	7.66	\$200,839.17	\$378.94	1.9%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,039	5.4%	43.94	1,408	20.36	\$370,114.90	\$262.87	3.6%	54%	46%
<b>Grand Total</b>	<b>56,728</b>	<b>100.0%</b>	<b>820.15</b>	<b>19,827</b>	<b>286.65</b>	<b>\$10,389,558.44</b>	<b>\$524.01</b>	<b>100.0%</b>	<b>65%</b>	<b>35%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 ACO Rating 5 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,458</b>	<b>5.8%</b>	<b>54.63</b>	<b>3,304</b>	<b>52.20</b>	<b>\$276,190.00</b>	<b>\$83.59</b>	<b>4.1%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,817	4.8%	44.50	2,674	42.24	\$265,656.94	\$99.35	3.9%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	79	0.1%	1.25	68	1.07	\$6,884.78	\$101.25	0.1%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$260.03	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	562	0.9%	8.88	562	8.88	\$3,388.63	\$6.03	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>5,803</b>	<b>9.8%</b>	<b>91.68</b>	<b>1,693</b>	<b>26.75</b>	<b>\$2,447,830.00</b>	<b>\$1,445.85</b>	<b>36.3%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	576	1.0%	9.10	480	7.58	\$164,526.45	\$342.76	2.4%	17%	83%
Don't do imaging for uncomplicated headache.	441	0.7%	6.97	116	1.83	\$92,566.83	\$797.99	1.4%	74%	26%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	43	0.1%	0.68	42	0.66	\$40,374.85	\$961.31	0.6%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	90	0.2%	1.42	29	0.46	\$123,829.04	\$4,269.97	1.8%	68%	32%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	54	0.1%	0.85	29	0.46	\$39,881.26	\$1,375.22	0.6%	46%	54%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	158	0.3%	2.50	61	0.96	\$91,546.27	\$1,500.76	1.4%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,494	5.9%	55.20	452	7.14	\$1,352,594.08	\$2,992.46	20.1%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	214	0.4%	3.38	112	1.77	\$50,623.20	\$451.99	0.8%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	*	*	*	*	*	\$1,434.76	*	0.0%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	224	0.4%	3.54	122	1.93	\$206,264.38	\$1,690.69	3.1%	46%	54%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$493.41	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	36	0.1%	0.57	36	0.57	\$48,944.31	\$1,359.56	0.7%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	61	0.1%	0.96	19	0.30	\$9,674.87	\$509.20	0.1%	69%	31%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	412	0.7%	6.51	195	3.08	\$225,075.79	\$1,154.23	3.3%	53%	47%
<b>Disease Approach</b>	<b>1,369</b>	<b>2.3%</b>	<b>21.63</b>	<b>1,007</b>	<b>15.91</b>	<b>\$431,378.00</b>	<b>\$428.38</b>	<b>6.4%</b>	<b>26%</b>	<b>74%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$12,181.69	*	0.2%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	90	0.2%	1.42	90	1.42	\$16,428.39	\$182.54	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,279	2.2%	20.21	917	14.49	\$402,768.25	\$439.22	6.0%	28%	72%
<b>Preoperative evaluation</b>	<b>7,401</b>	<b>12.5%</b>	<b>116.92</b>	<b>5,823</b>	<b>91.99</b>	<b>\$2,085,226.00</b>	<b>\$358.10</b>	<b>31.0%</b>	<b>21%</b>	<b>79%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$1,448.75	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,080	12.0%	111.85	5,504	86.95	\$1,951,401.68	\$354.54	29.0%	22%	78%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	321	0.5%	5.07	319	5.04	\$132,375.52	\$414.97	2.0%	1%	99%
<b>Routine FU/Monitoring</b>	<b>916</b>	<b>1.5%</b>	<b>14.47</b>	<b>153</b>	<b>2.42</b>	<b>\$158,687.00</b>	<b>\$1,037.17</b>	<b>2.4%</b>	<b>83%</b>	<b>17%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	359	0.6%	5.67	*	*	\$671.80	*	0.0%	99%	1%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	12	0.0%	0.19	12	0.19	\$7,016.66	\$584.72	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	87	0.1%	1.37	12	0.19	\$11,816.97	\$984.75	0.2%	86%	14%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	458	0.8%	7.24	129	2.04	\$139,181.19	\$1,078.92	2.1%	72%	28%
<b>Screening Tests</b>	<b>40,271</b>	<b>68.0%</b>	<b>636.20</b>	<b>5,273</b>	<b>83.30</b>	<b>\$1,336,903.00</b>	<b>\$253.54</b>	<b>19.8%</b>	<b>87%</b>	<b>13%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,121	1.9%	17.71	*	*	\$7,577.38	*	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	30,502	51.5%	481.87	761	12.02	\$452,728.89	\$594.91	6.7%	98%	2%
Don't perform Pap smears on women with previous hysterectomy	26	0.0%	0.41	18	0.28	\$3,650.36	\$202.80	0.1%	31%	69%
Don't perform Pap smears on women younger than 21	58	0.1%	0.92	49	0.77	\$7,930.30	\$161.84	0.1%	16%	84%
Don't perform population based screening for 25-OH-Vitamin D deficiency	553	0.9%	8.74	553	8.74	\$93,979.28	\$169.94	1.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	1,244	2.1%	19.65	960	15.17	\$156,668.73	\$163.20	2.3%	23%	77%
Don't perform routine general health checks for asymptomatic adults	408	0.7%	6.45	408	6.45	\$60,191.87	\$147.53	0.9%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	447	0.8%	7.06	447	7.06	\$42,157.40	\$94.31	0.6%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	497	0.8%	7.85	74	1.17	\$17,269.44	\$233.37	0.3%	85%	15%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	1,874	3.2%	29.61	486	7.68	\$160,740.87	\$330.74	2.4%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,541	6.0%	55.94	1,517	23.97	\$334,008.73	\$220.18	5.0%	57%	43%
<b>Grand Total</b>	<b>59,235</b>	<b>100.0%</b>	<b>935.80</b>	<b>17,279</b>	<b>272.97</b>	<b>\$6,736,214.03</b>	<b>\$389.85</b>	<b>100.0%</b>	<b>71%</b>	<b>29%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 6 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>7,621</b>	<b>5.0%</b>	<b>46.63</b>	<b>7,443</b>	<b>45.54</b>	<b>\$585,618.00</b>	<b>\$78.68</b>	<b>2.5%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	5,348	3.5%	32.72	5,189	31.75	\$556,476.01	\$107.24	2.4%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$328.44	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	162	0.1%	0.99	143	0.87	\$16,377.56	\$114.53	0.1%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	2,111	1.4%	12.92	2,111	12.92	\$12,436.13	\$5.89	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>15,383</b>	<b>10.1%</b>	<b>94.13</b>	<b>4,922</b>	<b>30.12</b>	<b>\$8,356,119.00</b>	<b>\$1,697.71</b>	<b>36.3%</b>	<b>68%</b>	<b>32%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	2,126	1.4%	13.01	1,749	10.70	\$530,958.58	\$303.58	2.3%	18%	82%
Don't do imaging for uncomplicated headache.	944	0.6%	5.78	325	1.99	\$267,638.46	\$823.50	1.2%	66%	34%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	64	0.0%	0.39	63	0.39	\$56,069.52	\$889.99	0.2%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	222	0.1%	1.36	66	0.40	\$265,781.51	\$4,026.99	1.2%	70%	30%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$99.01	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	87	0.1%	0.53	58	0.35	\$52,004.45	\$896.63	0.2%	33%	67%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	172	0.1%	1.05	61	0.37	\$78,593.32	\$1,288.42	0.3%	65%	35%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	9,826	6.4%	60.12	1,513	9.26	\$5,538,173.07	\$3,660.39	24.0%	85%	15%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	734	0.5%	4.49	369	2.26	\$216,628.90	\$587.07	0.9%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	29	0.0%	0.18	29	0.18	\$18,442.54	\$635.95	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	372	0.2%	2.28	255	1.56	\$730,798.11	\$2,865.87	3.2%	31%	69%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,279.62	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	60	0.0%	0.37	60	0.37	\$78,416.26	\$1,306.94	0.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	97	0.1%	0.59	48	0.29	\$31,908.58	\$664.76	0.1%	51%	49%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	650	0.4%	3.98	326	1.99	\$485,326.59	\$1,488.73	2.1%	50%	50%
<b>Disease Approach</b>	<b>2,126</b>	<b>1.4%</b>	<b>13.01</b>	<b>1,522</b>	<b>9.31</b>	<b>\$521,604.00</b>	<b>\$342.71</b>	<b>2.3%</b>	<b>28%</b>	<b>72%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	11	0.0%	0.07	11	0.07	\$19,011.42	\$1,728.31	0.1%	0%	100%



Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	245	0.2%	1.50	245	1.50	\$40,279.78	\$164.41	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,870	1.2%	11.44	1,266	7.75	\$462,312.59	\$365.18	2.0%	32%	68%
<b>Preoperative evaluation</b>	<b>22,486</b>	<b>14.7%</b>	<b>137.59</b>	<b>18,283</b>	<b>111.87</b>	<b>\$8,405,630.00</b>	<b>\$459.75</b>	<b>36.5%</b>	<b>19%</b>	<b>81%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	12	0.0%	0.07	12	0.07	\$5,508.39	\$459.03	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	21,412	14.0%	131.02	17,216	105.34	\$7,981,756.27	\$463.62	34.6%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,062	0.7%	6.50	1,055	6.46	\$418,364.87	\$396.55	1.8%	1%	99%
<b>Routine FU/Monitoring</b>	<b>2,352</b>	<b>1.5%</b>	<b>14.39</b>	<b>222</b>	<b>1.36</b>	<b>\$429,082.00</b>	<b>\$1,932.80</b>	<b>1.9%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,337	0.9%	8.18	31	0.19	\$20,974.05	\$676.58	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	27	0.0%	0.17	27	0.17	\$12,755.08	\$472.41	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	228	0.1%	1.40	47	0.29	\$24,612.52	\$523.67	0.1%	79%	21%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	760	0.5%	4.65	117	0.72	\$370,740.07	\$3,168.72	1.6%	85%	15%
<b>Screening Tests</b>	<b>102,662</b>	<b>67.3%</b>	<b>628.17</b>	<b>19,143</b>	<b>117.13</b>	<b>\$4,743,437.00</b>	<b>\$247.79</b>	<b>20.6%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,937	1.3%	11.85	*	*	\$7,979.60	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	73,292	48.0%	448.46	2,535	15.51	\$1,438,191.87	\$567.33	6.2%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	97	0.1%	0.59	28	0.17	\$6,688.16	\$238.86	0.0%	71%	29%
Don't perform Pap smears on women younger than 21	86	0.1%	0.53	64	0.39	\$12,158.84	\$189.98	0.1%	26%	74%
Don't perform population based screening for 25-OH-Vitamin D deficiency	5,538	3.6%	33.89	5,538	33.89	\$761,177.31	\$137.45	3.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	4,058	2.7%	24.83	2,800	17.13	\$706,004.04	\$252.14	3.1%	31%	69%
Don't perform routine general health checks for asymptomatic adults	2,011	1.3%	12.30	2,011	12.30	\$326,472.63	\$162.34	1.4%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	1,135	0.7%	6.94	1,135	6.94	\$149,926.68	\$132.09	0.7%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	2,055	1.3%	12.57	352	2.15	\$67,332.25	\$191.28	0.3%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	4,957	3.2%	30.33	1,252	7.66	\$467,345.32	\$373.28	2.0%	75%	25%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	7,496	4.9%	45.87	3,428	20.98	\$800,160.40	\$233.42	3.5%	54%	46%
<b>Grand Total</b>	<b>152,645</b>	<b>100.0%</b>	<b>934.01</b>	<b>51,555</b>	<b>315.46</b>	<b>\$23,041,488.80</b>	<b>\$446.93</b>	<b>100.0%</b>	<b>66%</b>	<b>34%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2014 ACO Rating 7 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>42,473</b>	<b>5.2%</b>	<b>46.95</b>	<b>41,436</b>	<b>45.81</b>	<b>\$4,955,356.00</b>	<b>\$119.59</b>	<b>4.6%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	34,540	4.3%	38.18	33,611	37.16	\$4,789,630.60	\$142.50	4.4%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	28	0.0%	0.03	26	0.03	\$3,456.26	\$132.93	0.0%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	848	0.1%	0.94	742	0.82	\$94,307.69	\$127.10	0.1%	13%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	13	0.0%	0.01	13	0.01	\$1,391.03	\$107.00	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	7,044	0.9%	7.79	7,044	7.79	\$66,570.83	\$9.45	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>64,859</b>	<b>8.0%</b>	<b>71.70</b>	<b>23,339</b>	<b>25.80</b>	<b>\$32,232,633.00</b>	<b>\$1,381.06</b>	<b>29.8%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	10,043	1.2%	11.10	9,109	10.07	\$3,147,235.31	\$345.51	2.9%	9%	91%
Don't do imaging for uncomplicated headache.	5,964	0.7%	6.59	2,085	2.30	\$2,420,535.72	\$1,160.93	2.2%	65%	35%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	481	0.1%	0.53	473	0.52	\$770,728.01	\$1,629.45	0.7%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	705	0.1%	0.78	264	0.29	\$1,330,191.67	\$5,038.60	1.2%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	22	0.0%	0.02	22	0.02	\$2,788.87	\$126.77	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	104	0.0%	0.11	104	0.11	\$21,585.65	\$207.55	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	562	0.1%	0.62	261	0.29	\$310,516.23	\$1,189.72	0.3%	54%	46%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,142	0.1%	1.26	440	0.49	\$536,896.37	\$1,220.22	0.5%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	33,014	4.1%	36.50	3,283	3.63	\$12,003,343.56	\$3,656.21	11.1%	90%	10%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,122	0.4%	3.45	1,587	1.75	\$1,175,861.89	\$740.93	1.1%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	117	0.0%	0.13	117	0.13	\$111,189.61	\$950.34	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,566	0.3%	2.84	1,484	1.64	\$3,380,938.35	\$2,278.26	3.1%	42%	58%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,052.47	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	342	0.0%	0.38	342	0.38	\$538,341.69	\$1,574.10	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	776	0.1%	0.86	322	0.36	\$447,543.73	\$1,389.89	0.4%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$2,262.66	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,899	0.7%	6.52	3,446	3.81	\$6,027,621.60	\$1,749.16	5.6%	42%	58%
<b>Disease Approach</b>	<b>11,572</b>	<b>1.4%</b>	<b>12.79</b>	<b>9,052</b>	<b>10.01</b>	<b>\$5,105,000.00</b>	<b>\$563.96</b>	<b>4.7%</b>	<b>22%</b>	<b>78%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	105	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	111	0.0%	0.12	111	0.12	\$287,906.39	\$2,593.75	0.3%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	651	0.1%	0.72	651	0.72	\$152,929.18	\$234.91	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	10,705	1.3%	11.83	8,290	9.16	\$4,664,164.75	\$562.63	4.3%	23%	77%
<b>Preoperative evaluation</b>	<b>103,480</b>	<b>12.7%</b>	<b>114.40</b>	<b>79,098</b>	<b>87.44</b>	<b>\$34,057,782.00</b>	<b>\$430.58</b>	<b>31.5%</b>	<b>24%</b>	<b>76%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	75	0.0%	0.08	74	0.08	\$29,984.75	\$405.20	0.0%	1%	99%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	98,031	12.1%	108.37	73,695	81.47	\$31,724,895.10	\$430.49	29.3%	25%	75%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	5,374	0.7%	5.94	5,329	5.89	\$2,302,902.35	\$432.15	2.1%	1%	99%
<b>Routine FU/Monitoring</b>	<b>12,134</b>	<b>1.5%</b>	<b>13.41</b>	<b>1,538</b>	<b>1.70</b>	<b>\$3,351,337.00</b>	<b>\$2,179.02</b>	<b>3.1%</b>	<b>87%</b>	<b>13%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	5,348	0.7%	5.91	161	0.18	\$243,927.18	\$1,515.08	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	118	0.0%	0.13	118	0.13	\$112,596.45	\$954.21	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,308	0.2%	1.45	208	0.23	\$603,544.74	\$2,901.66	0.6%	84%	16%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,360	0.7%	5.93	1,051	1.16	\$2,391,268.24	\$2,275.23	2.2%	80%	20%
<b>Screening Tests</b>	<b>577,094</b>	<b>71.1%</b>	<b>637.97</b>	<b>115,168</b>	<b>127.32</b>	<b>\$28,410,991.00</b>	<b>\$246.69</b>	<b>26.3%</b>	<b>80%</b>	<b>20%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	12,578	1.5%	13.90	72	0.08	\$86,940.97	\$1,207.51	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	391,016	48.2%	432.27	19,856	21.95	\$9,301,442.95	\$468.44	8.6%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	688	0.1%	0.76	309	0.34	\$65,009.63	\$210.39	0.1%	55%	45%
Don't perform Pap smears on women younger than 21	674	0.1%	0.75	586	0.65	\$134,193.94	\$229.00	0.1%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	19,423	2.4%	21.47	19,423	21.47	\$2,453,414.53	\$126.31	2.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	33,609	4.1%	37.15	26,905	29.74	\$5,866,215.29	\$218.03	5.4%	20%	80%
Don't perform routine general health checks for asymptomatic adults	11,248	1.4%	12.43	11,248	12.43	\$2,109,907.20	\$187.58	2.0%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	4,629	0.6%	5.12	4,629	5.12	\$469,602.07	\$101.45	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	16,384	2.0%	18.11	2,326	2.57	\$448,502.94	\$192.82	0.4%	86%	14%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	26,221	3.2%	28.99	4,649	5.14	\$2,003,198.07	\$430.89	1.9%	82%	18%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	60,624	7.5%	67.02	25,165	27.82	\$5,472,563.06	\$217.47	5.1%	58%	42%
<b>Grand Total</b>	<b>811,619</b>	<b>100.0%</b>	<b>897.24</b>	<b>269,638</b>	<b>298.08</b>	<b>\$108,113,099.58</b>	<b>\$400.96</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2014 ACO Rating 8 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>11,151</b>	<b>5.7%</b>	<b>52.08</b>	<b>10,829</b>	<b>50.58</b>	<b>\$894,510.00</b>	<b>\$82.60</b>	<b>3.5%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	8,647	4.4%	40.39	8,358	39.04	\$854,926.05	\$102.29	3.4%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	11	0.0%	0.05	11	0.05	\$1,179.63	\$107.24	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	200	0.1%	0.93	167	0.78	\$21,585.67	\$129.26	0.1%	17%	84%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	13	0.0%	0.06	13	0.06	\$937.02	\$72.08	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	2,280	1.2%	10.65	2,280	10.65	\$15,881.97	\$6.97	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>16,222</b>	<b>8.3%</b>	<b>75.77</b>	<b>4,683</b>	<b>21.87</b>	<b>\$8,420,562.00</b>	<b>\$1,798.11</b>	<b>33.2%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,603	0.8%	7.49	1,363	6.37	\$557,172.56	\$408.78	2.2%	15%	85%
Don't do imaging for uncomplicated headache.	1,047	0.5%	4.89	319	1.49	\$342,775.31	\$1,074.53	1.4%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	95	0.0%	0.44	92	0.43	\$117,348.89	\$1,275.53	0.5%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	288	0.1%	1.35	104	0.49	\$688,628.66	\$6,621.43	2.7%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	82	0.0%	0.38	38	0.18	\$32,557.13	\$856.77	0.1%	54%	46%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	272	0.1%	1.27	77	0.36	\$98,226.37	\$1,275.67	0.4%	72%	28%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	10,578	5.4%	49.41	1,426	6.66	\$4,657,387.16	\$3,266.05	18.4%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	869	0.4%	4.06	480	2.24	\$235,816.85	\$491.29	0.9%	45%	55%
Don't routinely do diagnostic testing in patients with chronic urticaria.	23	0.0%	0.11	23	0.11	\$29,603.68	\$1,287.12	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	434	0.2%	2.03	250	1.17	\$865,928.07	\$3,463.71	3.4%	42%	58%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	54	0.0%	0.25	54	0.25	\$78,647.43	\$1,456.43	0.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	64	0.0%	0.30	16	0.07	\$8,810.81	\$550.68	0.0%	75%	25%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	813	0.4%	3.80	441	2.06	\$707,659.52	\$1,604.67	2.8%	46%	54%
<b>Disease Approach</b>	<b>3,342</b>	<b>1.7%</b>	<b>15.61</b>	<b>2,586</b>	<b>12.08</b>	<b>\$1,240,496.00</b>	<b>\$479.70</b>	<b>4.9%</b>	<b>23%</b>	<b>77%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	28	0.0%	0.13	28	0.13	\$101,848.89	\$3,637.46	0.4%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	336	0.2%	1.57	336	1.57	\$84,748.35	\$252.23	0.3%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	2,978	1.5%	13.91	2,222	10.38	\$1,053,898.51	\$474.30	4.2%	25%	75%
<b>Preoperative evaluation</b>	<b>25,798</b>	<b>13.2%</b>	<b>120.50</b>	<b>20,663</b>	<b>96.51</b>	<b>\$9,181,262.00</b>	<b>\$444.33</b>	<b>36.2%</b>	<b>20%</b>	<b>80%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	17	0.0%	0.08	17	0.08	\$2,613.75	\$153.75	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	24,244	12.4%	113.24	19,128	89.34	\$8,288,406.99	\$433.31	32.7%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,537	0.8%	7.18	1,518	7.09	\$890,241.40	\$586.46	3.5%	1%	99%
<b>Routine FU/Monitoring</b>	<b>2,992</b>	<b>1.5%</b>	<b>13.98</b>	<b>241</b>	<b>1.13</b>	<b>\$447,143.00</b>	<b>\$1,855.37</b>	<b>1.8%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,570	0.8%	7.33	52	0.24	\$27,798.33	\$534.58	0.1%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	17	0.0%	0.08	17	0.08	\$16,514.69	\$971.45	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	308	0.2%	1.44	31	0.14	\$29,338.25	\$946.40	0.1%	90%	10%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,097	0.6%	5.12	141	0.66	\$373,491.95	\$2,648.88	1.5%	87%	13%
<b>Screening Tests</b>	<b>136,462</b>	<b>69.6%</b>	<b>637.40</b>	<b>21,122</b>	<b>98.66</b>	<b>\$5,193,565.00</b>	<b>\$245.88</b>	<b>20.5%</b>	<b>85%</b>	<b>15%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	3,021	1.5%	14.11	13	0.06	\$12,902.53	\$992.50	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	96,954	49.5%	452.86	3,570	16.67	\$1,703,837.96	\$477.27	6.7%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	113	0.1%	0.53	37	0.17	\$6,318.57	\$170.77	0.0%	67%	33%
Don't perform Pap smears on women younger than 21	63	0.0%	0.29	52	0.24	\$11,062.82	\$212.75	0.0%	17%	83%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,546	1.3%	11.89	2,546	11.89	\$327,558.42	\$128.66	1.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	6,202	3.2%	28.97	4,351	20.32	\$843,380.82	\$193.84	3.3%	30%	70%
Don't perform routine general health checks for asymptomatic adults	2,088	1.1%	9.75	2,088	9.75	\$339,034.79	\$162.37	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	944	0.5%	4.41	944	4.41	\$99,997.36	\$105.93	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	5,976	3.0%	27.91	868	4.05	\$151,917.29	\$175.02	0.6%	85%	15%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	5,771	2.9%	26.96	1,446	6.75	\$623,625.85	\$431.28	2.5%	75%	25%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	12,784	6.5%	59.71	5,207	24.32	\$1,073,928.87	\$206.25	4.2%	59%	41%
<b>Grand Total</b>	<b>195,970</b>	<b>100.0%</b>	<b>915.35</b>	<b>60,124</b>	<b>280.83</b>	<b>\$25,377,539.17</b>	<b>\$422.09</b>	<b>100.0%</b>	<b>69%</b>	<b>31%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 ACO Rating 9 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>39,530</b>	<b>4.8%</b>	<b>41.10</b>	<b>38,086</b>	<b>39.60</b>	<b>\$3,866,173.00</b>	<b>\$101.51</b>	<b>3.6%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	29,603	3.6%	30.78	28,285	29.41	\$3,654,250.42	\$129.19	3.4%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	62	0.0%	0.06	58	0.06	\$10,428.72	\$179.81	0.0%	6%	94%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	860	0.1%	0.89	738	0.77	\$100,585.20	\$136.29	0.1%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	18	0.0%	0.02	18	0.02	\$2,744.26	\$152.46	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	8,987	1.1%	9.34	8,987	9.34	\$98,164.46	\$10.92	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>71,429</b>	<b>8.6%</b>	<b>74.26</b>	<b>24,155</b>	<b>25.11</b>	<b>\$32,362,484.00</b>	<b>\$1,339.78</b>	<b>29.9%</b>	<b>66%</b>	<b>34%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	9,141	1.1%	9.50	7,975	8.29	\$3,119,063.47	\$391.11	2.9%	13%	87%
Don't do imaging for uncomplicated headache.	6,539	0.8%	6.80	1,895	1.97	\$2,190,729.31	\$1,156.06	2.0%	71%	29%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	504	0.1%	0.52	493	0.51	\$731,886.20	\$1,484.56	0.7%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,093	0.1%	1.14	430	0.45	\$1,781,754.00	\$4,143.61	1.6%	61%	39%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$744.27	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$265.94	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	722	0.1%	0.75	366	0.38	\$385,990.04	\$1,054.62	0.4%	49%	51%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,887	0.2%	1.96	814	0.85	\$1,233,602.65	\$1,515.48	1.1%	57%	43%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	37,912	4.6%	39.41	4,630	4.81	\$12,765,909.84	\$2,757.22	11.8%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,757	0.5%	3.91	1,955	2.03	\$1,396,262.83	\$714.20	1.3%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	69	0.0%	0.07	69	0.07	\$97,296.61	\$1,410.10	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,860	0.3%	2.97	1,738	1.81	\$3,218,966.65	\$1,852.11	3.0%	39%	61%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$218.51	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	364	0.0%	0.38	364	0.38	\$590,289.32	\$1,621.67	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	723	0.1%	0.75	293	0.30	\$227,623.95	\$776.87	0.2%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$12,653.58	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,858	0.7%	6.09	3,133	3.26	\$4,609,226.74	\$1,471.19	4.3%	47%	53%
<b>Disease Approach</b>	<b>17,263</b>	<b>2.1%</b>	<b>17.95</b>	<b>13,025</b>	<b>13.54</b>	<b>\$7,208,252.00</b>	<b>\$553.42</b>	<b>6.7%</b>	<b>25%</b>	<b>75%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	119	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	93	0.0%	0.10	93	0.10	\$266,556.96	\$2,866.20	0.2%	0%	100%

Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	580	0.1%	0.60	580	0.60	\$226,840.27	\$391.10	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	16,471	2.0%	17.12	12,352	12.84	\$6,714,854.27	\$543.62	6.2%	25%	75%
<b>Preoperative evaluation</b>	<b>119,908</b>	<b>14.5%</b>	<b>124.66</b>	<b>97,265</b>	<b>101.12</b>	<b>\$36,105,703.00</b>	<b>\$371.21</b>	<b>33.4%</b>	<b>19%</b>	<b>81%</b>
Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	68	0.0%	0.07	68	0.07	\$42,833.87	\$629.91	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	114,441	13.8%	118.98	91,867	95.51	\$33,816,458.96	\$368.10	31.2%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	5,399	0.7%	5.61	5,330	5.54	\$2,246,409.73	\$421.47	2.1%	1%	99%
<b>Routine FU/Monitoring</b>	<b>12,521</b>	<b>1.5%</b>	<b>13.02</b>	<b>1,701</b>	<b>1.77</b>	<b>\$3,001,945.00</b>	<b>\$1,764.81</b>	<b>2.8%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	5,467	0.7%	5.68	199	0.21	\$232,234.56	\$1,167.01	0.2%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	262	0.0%	0.27	262	0.27	\$197,067.79	\$752.17	0.2%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,224	0.1%	1.27	167	0.17	\$297,959.26	\$1,784.19	0.3%	86%	14%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,568	0.7%	5.79	1,073	1.12	\$2,274,683.11	\$2,119.93	2.1%	81%	19%
<b>Screening Tests</b>	<b>567,359</b>	<b>68.5%</b>	<b>589.84</b>	<b>103,385</b>	<b>107.48</b>	<b>\$25,683,918.00</b>	<b>\$248.43</b>	<b>23.7%</b>	<b>82%</b>	<b>18%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	15,744	1.9%	16.37	69	0.07	\$67,994.34	\$985.43	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	387,817	46.8%	403.18	13,849	14.40	\$6,451,873.87	\$465.87	6.0%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	873	0.1%	0.91	330	0.34	\$74,148.14	\$224.69	0.1%	62%	38%
Don't perform Pap smears on women younger than 21	706	0.1%	0.73	617	0.64	\$142,447.22	\$230.87	0.1%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	17,799	2.1%	18.50	17,799	18.50	\$2,234,997.13	\$125.57	2.1%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	35,000	4.2%	36.39	27,727	28.83	\$6,473,467.30	\$233.47	6.0%	21%	79%
Don't perform routine general health checks for asymptomatic adults	8,888	1.1%	9.24	8,888	9.24	\$1,577,525.82	\$177.49	1.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	4,081	0.5%	4.24	4,081	4.24	\$400,947.27	\$98.25	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	14,550	1.8%	15.13	1,759	1.83	\$420,663.94	\$239.15	0.4%	88%	12%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	26,680	3.2%	27.74	5,871	6.10	\$2,595,239.28	\$442.04	2.4%	78%	22%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	55,221	6.7%	57.41	22,395	23.28	\$5,244,613.32	\$234.19	4.8%	59%	41%
<b>Grand Total</b>	<b>828,025</b>	<b>100.0%</b>	<b>860.84</b>	<b>277,632</b>	<b>288.63</b>	<b>\$108,228,473.38</b>	<b>\$389.83</b>	<b>100.0%</b>	<b>66%</b>	<b>34%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful





## 2014 ACO Rating 10 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>70,424</b>	<b>4.8%</b>	<b>39.64</b>	<b>67,765</b>	<b>38.14</b>	<b>\$7,820,736.00</b>	<b>\$115.41</b>	<b>3.5%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	61,880	4.2%	34.83	59,387	33.43	\$7,512,041.04	\$126.49	3.4%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	92	0.0%	0.05	81	0.05	\$8,261.09	\$101.99	0.0%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,837	0.1%	1.03	1,682	0.95	\$233,069.08	\$138.57	0.1%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	14	0.0%	0.01	14	0.01	\$7,683.52	\$548.82	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	6,601	0.4%	3.72	6,601	3.72	\$59,681.23	\$9.04	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>109,242</b>	<b>7.4%</b>	<b>61.49</b>	<b>39,440</b>	<b>22.20</b>	<b>\$62,412,515.00</b>	<b>\$1,582.47</b>	<b>28.3%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	14,551	1.0%	8.19	12,608	7.10	\$5,504,774.00	\$436.61	2.5%	13%	87%
Don't do imaging for uncomplicated headache.	10,442	0.7%	5.88	4,106	2.31	\$4,516,998.49	\$1,100.10	2.0%	61%	39%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	775	0.1%	0.44	751	0.42	\$1,151,298.26	\$1,533.02	0.5%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,302	0.1%	0.73	553	0.31	\$2,102,812.90	\$3,802.55	1.0%	58%	42%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$606.89	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$13.51	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,384	0.1%	0.78	827	0.47	\$857,736.07	\$1,037.17	0.4%	40%	60%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,379	0.2%	1.34	910	0.51	\$1,464,999.10	\$1,609.89	0.7%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	56,074	3.8%	31.56	8,277	4.66	\$31,293,417.39	\$3,780.77	14.2%	85%	15%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	8,996	0.6%	5.06	4,456	2.51	\$2,932,463.76	\$658.09	1.3%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	295	0.0%	0.17	295	0.17	\$300,467.17	\$1,018.53	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,662	0.2%	2.06	1,585	0.89	\$3,746,397.65	\$2,363.66	1.7%	57%	43%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	19	0.0%	0.01	19	0.01	\$20,437.64	\$1,075.67	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	371	0.0%	0.21	371	0.21	\$755,816.83	\$2,037.24	0.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	1,052	0.1%	0.59	476	0.27	\$478,795.29	\$1,005.87	0.2%	55%	45%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	13	0.0%	0.01	13	0.01	\$15,533.97	\$1,194.92	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	7,927	0.5%	4.46	4,193	2.36	\$7,269,946.43	\$1,733.83	3.3%	47%	53%
<b>Disease Approach</b>	<b>13,810</b>	<b>0.9%</b>	<b>7.77</b>	<b>11,286</b>	<b>6.35</b>	<b>\$8,198,571.00</b>	<b>\$726.44</b>	<b>3.7%</b>	<b>18%</b>	<b>82%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	203	0.0%	0.11	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	175	0.0%	0.10	175	0.10	\$458,769.05	\$2,621.54	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	788	0.1%	0.44	788	0.44	\$205,905.06	\$261.30	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	12,644	0.9%	7.12	10,323	5.81	\$7,533,896.89	\$729.82	3.4%	18%	82%
<b>Preoperative evaluation</b>	<b>159,957</b>	<b>10.8%</b>	<b>90.03</b>	<b>132,817</b>	<b>74.75</b>	<b>\$45,742,827.00</b>	<b>\$344.40</b>	<b>20.7%</b>	<b>17%</b>	<b>83%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	258	0.0%	0.15	258	0.15	\$149,364.37	\$578.93	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	148,102	10.0%	83.36	121,050	68.13	\$41,750,630.50	\$344.90	18.9%	18%	82%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	11,597	0.8%	6.53	11,509	6.48	\$3,842,831.64	\$333.90	1.7%	1%	99%
<b>Routine FU/Monitoring</b>	<b>16,361</b>	<b>1.1%</b>	<b>9.21</b>	<b>3,117</b>	<b>1.75</b>	<b>\$3,668,446.00</b>	<b>\$1,176.92</b>	<b>1.7%</b>	<b>81%</b>	<b>19%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	7,871	0.5%	4.43	236	0.13	\$332,111.67	\$1,407.25	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	240	0.0%	0.14	240	0.14	\$190,934.47	\$795.56	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,679	0.1%	0.95	466	0.26	\$357,381.13	\$766.91	0.2%	72%	28%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	6,571	0.4%	3.70	2,175	1.22	\$2,788,018.33	\$1,281.85	1.3%	67%	33%
<b>Screening Tests</b>	<b>1,111,512</b>	<b>75.0%</b>	<b>625.60</b>	<b>389,753</b>	<b>219.37</b>	<b>\$92,605,313.00</b>	<b>\$237.60</b>	<b>42.0%</b>	<b>65%</b>	<b>35%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	22,455	1.5%	12.64	370	0.21	\$183,615.39	\$496.26	0.1%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	676,139	45.6%	380.56	89,010	50.10	\$31,703,791.01	\$356.18	14.4%	87%	13%
Don't perform Pap smears on women with previous hysterectomy	1,074	0.1%	0.60	435	0.24	\$146,721.72	\$337.29	0.1%	59%	41%
Don't perform Pap smears on women younger than 21	1,185	0.1%	0.67	1,071	0.60	\$252,308.07	\$235.58	0.1%	10%	90%
Don't perform population based screening for 25-OH-Vitamin D deficiency	105,978	7.2%	59.65	105,978	59.65	\$14,514,597.64	\$136.96	6.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	88,643	6.0%	49.89	74,852	42.13	\$18,137,987.58	\$242.32	8.2%	16%	84%
Don't perform routine general health checks for asymptomatic adults	47,748	3.2%	26.87	47,748	26.87	\$10,320,347.12	\$216.14	4.7%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	7,034	0.5%	3.96	7,034	3.96	\$725,979.02	\$103.21	0.3%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	21,909	1.5%	12.33	5,901	3.32	\$1,490,322.66	\$252.55	0.7%	73%	27%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	44,556	3.0%	25.08	10,664	6.00	\$3,085,848.57	\$289.37	1.4%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	94,791	6.4%	53.35	46,690	26.28	\$12,043,793.76	\$257.95	5.5%	51%	49%
<b>Grand Total</b>	<b>1,481,316</b>	<b>100.0%</b>	<b>833.74</b>	<b>644,188</b>	<b>362.57</b>	<b>\$220,448,406.96</b>	<b>\$342.21</b>	<b>100.0%</b>	<b>57%</b>	<b>43%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful





## 2014 ACO Rating 11 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,369</b>	<b>5.7%</b>	<b>47.57</b>	<b>3,273</b>	<b>46.22</b>	<b>\$361,909.00</b>	<b>\$110.57</b>	<b>4.5%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	3,090	5.3%	43.63	3,003	42.41	\$352,581.84	\$117.41	4.4%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	87	0.1%	1.23	78	1.10	\$8,090.88	\$103.73	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$113.47	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	192	0.3%	2.71	192	2.71	\$1,122.35	\$5.85	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>5,169</b>	<b>8.8%</b>	<b>72.99</b>	<b>1,475</b>	<b>20.83</b>	<b>\$2,902,146.00</b>	<b>\$1,967.56</b>	<b>35.9%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	549	0.9%	7.75	472	6.67	\$212,427.29	\$450.06	2.6%	14%	86%
Don't do imaging for uncomplicated headache.	426	0.7%	6.02	126	1.78	\$191,531.49	\$1,520.09	2.4%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	55	0.1%	0.78	54	0.76	\$87,871.46	\$1,627.25	1.1%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	69	0.1%	0.97	32	0.45	\$242,953.84	\$7,592.31	3.0%	54%	46%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	-	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	34	0.1%	0.48	12	0.17	\$12,012.97	\$1,001.08	0.1%	65%	35%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	102	0.2%	1.44	49	0.69	\$81,927.42	\$1,671.99	1.0%	52%	48%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,216	5.5%	45.41	349	4.93	\$1,493,527.62	\$4,279.45	18.5%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	132	0.2%	1.86	69	0.97	\$27,630.83	\$400.45	0.3%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	*	*	*	*	*	\$7,492.34	*	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	176	0.3%	2.49	100	1.41	\$199,495.13	\$1,994.95	2.5%	43%	57%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$366.22	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	18	0.0%	0.25	18	0.25	\$28,922.42	\$1,606.80	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	66	0.1%	0.93	22	0.31	\$20,219.44	\$919.07	0.2%	67%	33%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$263.16	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	326	0.6%	4.60	172	2.43	\$295,504.15	\$1,718.05	3.7%	47%	53%
<b>Disease Approach</b>	<b>522</b>	<b>0.9%</b>	<b>7.37</b>	<b>436</b>	<b>6.16</b>	<b>\$403,574.00</b>	<b>\$925.63</b>	<b>5.0%</b>	<b>16%</b>	<b>84%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	11	0.0%	0.16	11	0.16	\$43,944.04	\$3,994.91	0.5%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	58	0.1%	0.82	58	0.82	\$15,741.60	\$271.41	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	453	0.8%	6.40	367	5.18	\$343,888.14	\$937.02	4.2%	19%	81%
<b>Preoperative evaluation</b>	<b>7,649</b>	<b>13.0%</b>	<b>108.01</b>	<b>6,128</b>	<b>86.53</b>	<b>\$2,408,676.00</b>	<b>\$393.06</b>	<b>29.8%</b>	<b>20%</b>	<b>80%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$2,692.18	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,196	12.2%	101.61	5,681	80.22	\$2,235,660.84	\$393.53	27.6%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	453	0.8%	6.40	447	6.31	\$170,322.61	\$381.03	2.1%	1%	99%
<b>Routine FU/Monitoring</b>	<b>1,040</b>	<b>1.8%</b>	<b>14.69</b>	<b>188</b>	<b>2.65</b>	<b>\$306,904.00</b>	<b>\$1,632.47</b>	<b>3.8%</b>	<b>82%</b>	<b>18%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	383	0.7%	5.41	14	0.20	\$10,973.34	\$783.81	0.1%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	18	0.0%	0.25	18	0.25	\$10,197.96	\$566.55	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	105	0.2%	1.48	18	0.25	\$17,199.28	\$955.52	0.2%	83%	17%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	534	0.9%	7.54	138	1.95	\$268,533.31	\$1,945.89	3.3%	74%	26%
<b>Screening Tests</b>	<b>41,087</b>	<b>69.8%</b>	<b>580.19</b>	<b>7,379</b>	<b>104.20</b>	<b>\$1,711,531.00</b>	<b>\$231.95</b>	<b>21.1%</b>	<b>82%</b>	<b>18%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,065	1.8%	15.04	*	*	\$5,473.59	*	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	29,840	50.7%	421.37	1,213	17.13	\$430,581.92	\$354.97	5.3%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	26	0.0%	0.37	*	*	\$1,088.54	*	0.0%	77%	23%
Don't perform Pap smears on women younger than 21	27	0.0%	0.38	26	0.37	\$5,289.34	\$203.44	0.1%	4%	96%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,300	2.2%	18.36	1,300	18.36	\$206,231.81	\$158.64	2.5%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	1,620	2.8%	22.88	1,352	19.09	\$290,394.26	\$214.79	3.6%	17%	83%
Don't perform routine general health checks for asymptomatic adults	1,334	2.3%	18.84	1,334	18.84	\$224,446.51	\$168.25	2.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	272	0.5%	3.84	272	3.84	\$16,456.04	\$60.50	0.2%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	805	1.4%	11.37	138	1.95	\$34,440.38	\$249.57	0.4%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	1,162	2.0%	16.41	257	3.63	\$159,629.38	\$621.13	2.0%	78%	22%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,636	6.2%	51.34	1,487	21.00	\$337,499.23	\$226.97	4.2%	59%	41%
<b>Grand Total</b>	<b>58,851</b>	<b>100.0%</b>	<b>831.03</b>	<b>18,906</b>	<b>266.97</b>	<b>\$8,094,738.62</b>	<b>\$428.16</b>	<b>100.0%</b>	<b>68%</b>	<b>32%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2014 ACO Rating 12 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>43,906</b>	<b>5.6%</b>	<b>55.65</b>	<b>42,069</b>	<b>53.32</b>	<b>\$3,417,408.00</b>	<b>\$81.23</b>	<b>3.3%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	31,560	4.0%	40.00	29,852	37.84	\$3,229,630.18	\$108.19	3.1%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	56	0.0%	0.07	50	0.06	\$4,028.33	\$80.57	0.0%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	991	0.1%	1.26	868	1.10	\$101,463.05	\$116.89	0.1%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	19	0.0%	0.02	19	0.02	\$1,496.88	\$78.78	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	11,280	1.4%	14.30	11,280	14.30	\$80,789.56	\$7.16	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>75,819</b>	<b>9.7%</b>	<b>96.10</b>	<b>21,967</b>	<b>27.84</b>	<b>\$33,949,518.00</b>	<b>\$1,545.48</b>	<b>32.6%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	7,248	0.9%	9.19	6,289	7.97	\$2,495,488.96	\$396.80	2.4%	13%	87%
Don't do imaging for uncomplicated headache.	5,661	0.7%	7.18	1,724	2.19	\$1,605,859.68	\$931.47	1.5%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	556	0.1%	0.70	543	0.69	\$658,247.73	\$1,212.24	0.6%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	839	0.1%	1.06	354	0.45	\$1,357,782.04	\$3,835.54	1.3%	58%	42%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$443.07	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$1,001.29	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	565	0.1%	0.72	288	0.37	\$232,866.80	\$808.57	0.2%	49%	51%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,927	0.2%	2.44	683	0.87	\$1,008,545.09	\$1,476.64	1.0%	65%	35%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	47,334	6.0%	59.99	5,833	7.39	\$18,455,645.46	\$3,164.01	17.7%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	2,723	0.3%	3.45	1,388	1.76	\$892,205.34	\$642.80	0.9%	49%	51%
Don't routinely do diagnostic testing in patients with chronic urticaria.	84	0.0%	0.11	84	0.11	\$72,086.70	\$858.18	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,489	0.3%	3.15	1,305	1.65	\$2,894,449.52	\$2,217.97	2.8%	48%	52%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$8,089.45	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	451	0.1%	0.57	451	0.57	\$552,703.99	\$1,225.51	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	723	0.1%	0.92	283	0.36	\$165,455.44	\$584.65	0.2%	61%	39%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	11	0.0%	0.01	11	0.01	\$9,001.05	\$818.28	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,208	0.7%	6.60	2,731	3.46	\$3,539,645.93	\$1,296.10	3.4%	48%	52%
<b>Disease Approach</b>	<b>15,225</b>	<b>1.9%</b>	<b>19.30</b>	<b>11,467</b>	<b>14.53</b>	<b>\$4,762,956.00</b>	<b>\$415.36</b>	<b>4.6%</b>	<b>25%</b>	<b>75%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	44	0.0%	0.06	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	68	0.0%	0.09	68	0.09	\$176,389.23	\$2,593.96	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	843	0.1%	1.07	843	1.07	\$155,174.49	\$184.07	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	14,270	1.8%	18.09	10,556	13.38	\$4,431,392.40	\$419.80	4.3%	26%	74%
<b>Preoperative evaluation</b>	<b>106,003</b>	<b>13.5%</b>	<b>134.36</b>	<b>83,958</b>	<b>106.41</b>	<b>\$40,320,285.00</b>	<b>\$480.24</b>	<b>38.8%</b>	<b>21%</b>	<b>79%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	54	0.0%	0.07	52	0.07	\$38,448.16	\$739.39	0.0%	4%	96%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	101,281	12.9%	128.37	79,278	100.48	\$37,670,121.07	\$475.16	36.2%	22%	78%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	4,668	0.6%	5.92	4,628	5.87	\$2,611,715.73	\$564.33	2.5%	1%	99%
<b>Routine FU/Monitoring</b>	<b>13,009</b>	<b>1.7%</b>	<b>16.49</b>	<b>1,553</b>	<b>1.97</b>	<b>\$2,427,398.00</b>	<b>\$1,563.04</b>	<b>2.3%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,115	0.8%	7.75	175	0.22	\$312,394.97	\$1,785.11	0.3%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	131	0.0%	0.17	131	0.17	\$108,902.31	\$831.32	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,258	0.2%	1.59	176	0.22	\$192,800.73	\$1,095.46	0.2%	86%	14%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,505	0.7%	6.98	1,071	1.36	\$1,813,300.12	\$1,693.09	1.7%	81%	19%
<b>Screening Tests</b>	<b>529,915</b>	<b>67.6%</b>	<b>671.65</b>	<b>72,357</b>	<b>91.71</b>	<b>\$19,136,400.00</b>	<b>\$264.47</b>	<b>18.4%</b>	<b>86%</b>	<b>14%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	13,760	1.8%	17.44	55	0.07	\$54,395.21	\$989.00	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	391,970	50.0%	496.81	9,716	12.31	\$5,800,017.82	\$596.96	5.6%	98%	2%
Don't perform Pap smears on women with previous hysterectomy	512	0.1%	0.65	185	0.23	\$36,282.45	\$196.12	0.0%	64%	36%
Don't perform Pap smears on women younger than 21	666	0.1%	0.84	575	0.73	\$109,335.39	\$190.15	0.1%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	13,182	1.7%	16.71	13,182	16.71	\$2,099,846.58	\$159.30	2.0%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	17,851	2.3%	22.63	13,766	17.45	\$2,946,603.93	\$214.05	2.8%	23%	77%
Don't perform routine general health checks for asymptomatic adults	5,780	0.7%	7.33	5,780	7.33	\$925,314.23	\$160.09	0.9%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	4,639	0.6%	5.88	4,639	5.88	\$478,286.22	\$103.10	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	10,072	1.3%	12.77	1,302	1.65	\$287,087.45	\$220.50	0.3%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	19,917	2.5%	25.24	5,089	6.45	\$2,333,760.60	\$458.59	2.2%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	51,566	6.6%	65.36	18,068	22.90	\$4,065,470.13	\$225.01	3.9%	65%	35%
<b>Grand Total</b>	<b>783,899</b>	<b>100.0%</b>	<b>993.57</b>	<b>233,393</b>	<b>295.82</b>	<b>\$104,013,964.76</b>	<b>\$445.66</b>	<b>100.0%</b>	<b>70%</b>	<b>30%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Statewide Wasteful Services- Total

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>263,174</b>	<b>5.1%</b>	<b>50.08</b>	<b>254,058</b>	<b>48.35</b>	<b>\$32,051,415.00</b>	<b>\$126.16</b>	<b>5.0%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	207,587	4.0%	39.50	199,123	37.89	\$30,980,282.17	\$155.58	4.8%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	272	0.0%	0.05	249	0.05	\$13,887.91	\$55.77	0.0%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	6,041	0.1%	1.15	5,412	1.03	\$705,329.32	\$130.33	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	106	0.0%	0.02	106	0.02	\$6,568.27	\$61.96	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	49,168	1.0%	9.36	49,168	9.36	\$345,347.32	\$7.02	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>407,376</b>	<b>7.9%</b>	<b>77.52</b>	<b>131,650</b>	<b>25.05</b>	<b>\$194,923,712.00</b>	<b>\$1,480.62</b>	<b>30.4%</b>	<b>68%</b>	<b>32%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	49,039	1.0%	9.33	42,846	8.15	\$16,982,777.64	\$396.37	2.7%	13%	87%
Don't do imaging for uncomplicated headache.	33,565	0.7%	6.39	11,503	2.19	\$12,329,695.16	\$1,071.87	1.9%	66%	34%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	2,945	0.1%	0.56	2,829	0.54	\$3,822,527.34	\$1,351.19	0.6%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	4,839	0.1%	0.92	1,794	0.34	\$7,689,863.57	\$4,286.43	1.2%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	96	0.0%	0.02	96	0.02	\$7,167.08	\$74.66	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	142	0.0%	0.03	142	0.03	\$25,601.73	\$180.29	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	3,915	0.1%	0.75	2,148	0.41	\$2,334,684.28	\$1,086.91	0.4%	45%	55%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	8,961	0.2%	1.71	3,484	0.66	\$4,543,426.48	\$1,304.08	0.7%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	229,141	4.5%	43.61	26,885	5.12	\$91,328,343.28	\$3,397.00	14.3%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	22,722	0.4%	4.32	11,054	2.10	\$7,728,659.56	\$699.17	1.2%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	725	0.0%	0.14	725	0.14	\$903,777.35	\$1,246.59	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	16,464	0.3%	3.13	9,075	1.73	\$19,760,247.41	\$2,177.44	3.1%	45%	55%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	47	0.0%	0.01	47	0.01	\$38,351.39	\$815.99	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	1,892	0.0%	0.36	1,780	0.34	\$2,904,602.25	\$1,631.80	0.5%	6%	94%
Don't perform computed tomography scans on children being treated for headache.	4,054	0.1%	0.77	1700	0.32	\$1,382,553.45	\$813.27	0.2%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	54	0.0%	0.01	54	0.01	\$88,170.46	\$1,632.79	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	28,775	0.6%	5.48	15,488	2.95	\$23,053,263.67	\$1,488.46	3.6%	46%	54%
<b>Disease Approach</b>	<b>66,459</b>	<b>1.3%</b>	<b>12.65</b>	<b>51,249</b>	<b>9.75</b>	<b>\$24,333,210.00</b>	<b>\$474.80</b>	<b>3.8%</b>	<b>23%</b>	<b>77%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	427	0.0%	0.08	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	709	0.0%	0.13	709	0.13	\$1,589,097.22	\$2,241.32	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	4,500	0.1%	0.86	4,500	0.86	\$887,544.22	\$197.23	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	60,823	1.2%	11.57	46,040	8.76	\$21,856,568.89	\$474.73	3.4%	24%	76%
<b>Preoperative evaluation</b>	<b>647,324</b>	<b>12.6%</b>	<b>123.19</b>	<b>521,141</b>	<b>99.17</b>	<b>\$197,650,456.00</b>	<b>\$379.26</b>	<b>30.8%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	534	0.0%	0.10	533	0.10	\$282,873.93	\$530.72	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	611,231	11.9%	116.32	485,367	92.37	\$181,066,683.60	\$373.05	28.3%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	35,559	0.7%	6.77	35,241	6.71	\$16,300,898.64	\$462.55	2.5%	1%	99%
<b>Routine FU/Monitoring</b>	<b>75,362</b>	<b>1.5%</b>	<b>14.34</b>	<b>10,046</b>	<b>1.91</b>	<b>\$15,484,911.00</b>	<b>\$1,541.40</b>	<b>2.4%</b>	<b>87%</b>	<b>13%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	36,767	0.7%	7.00	1,017	0.19	\$1,621,808.77	\$1,594.70	0.3%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	945	0.0%	0.18	873	0.17	\$684,041.18	\$783.55	0.1%	8%	92%
Don't perform routine annual stress testing after coronary artery revascularization.	8,483	0.2%	1.61	1,278	0.24	\$1,771,007.65	\$1,385.76	0.3%	85%	15%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	29,167	0.6%	5.55	6,878	1.31	\$11,408,053.61	\$1,658.63	1.8%	76%	24%
<b>Screening Tests</b>	<b>3,670,487</b>	<b>71.5%</b>	<b>698.50</b>	<b>761,131</b>	<b>144.84</b>	<b>\$176,294,676.00</b>	<b>\$231.62</b>	<b>27.5%</b>	<b>79%</b>	<b>21%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	86,421	1.7%	16.45	679	0.13	\$576,560.94	\$849.13	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	2,520,700	49.1%	479.69	129,275	24.60	\$53,115,640.64	\$410.87	8.3%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	3,950	0.1%	0.75	1,326	0.25	\$272,159.57	\$205.25	0.0%	66%	34%
Don't perform Pap smears on women younger than 21	6,299	0.1%	1.20	5,420	1.03	\$1,016,272.08	\$187.50	0.2%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	160,245	3.1%	30.49	160,245	30.49	\$20,778,297.74	\$129.67	3.2%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	215,534	4.2%	41.02	172,645	32.85	\$35,810,934.04	\$207.43	5.6%	20%	80%
Don't perform routine general health checks for asymptomatic adults	72,757	1.4%	13.85	72,757	13.85	\$13,925,692.19	\$191.40	2.2%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	30,557	0.6%	5.82	30,557	5.82	\$3,076,641.47	\$100.69	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	76,760	1.5%	14.61	12,098	2.30	\$2,867,111.03	\$236.99	0.4%	84%	16%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	154,151	3.0%	29.34	36,907	7.02	\$13,219,342.62	\$358.18	2.1%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	343,113	6.7%	65.30	139,222	26.49	\$31,636,023.92	\$227.23	4.9%	59%	41%
<b>Grand Total</b>	<b>5,130,182</b>	<b>100.0%</b>	<b>976.28</b>	<b>1,729,275</b>	<b>329.08</b>	<b>\$640,738,381.00</b>	<b>\$370.52</b>	<b>100.0%</b>	<b>66%</b>	<b>34%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful





## 2013 Statewide Wasteful Services- Commercial

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>162,997</b>	<b>7.9%</b>	<b>62.36</b>	<b>158,500</b>	<b>60.64</b>	<b>\$28,869,849.00</b>	<b>\$182.14</b>	<b>8.9%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	155,123	7.5%	59.35	150,987	57.77	\$28,250,289.01	\$187.10	8.7%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	111	0.0%	0.04	103	0.04	\$9,780.95	\$94.96	0.0%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	4,116	0.2%	1.57	3,763	1.44	\$587,948.06	\$156.24	0.2%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	37	0.0%	0.01	37	0.01	\$3,850.35	\$104.06	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	3,610	0.2%	1.38	3,610	1.38	\$17,980.61	\$4.98	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>136,639</b>	<b>6.6%</b>	<b>52.28</b>	<b>59,421</b>	<b>22.74</b>	<b>\$74,255,783.00</b>	<b>\$1,249.66</b>	<b>23.0%</b>	<b>57%</b>	<b>43%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	26,276	1.3%	10.05	24,505	9.38	\$9,826,386.80	\$401.00	3.0%	7%	93%
Don't do imaging for uncomplicated headache.	14,692	0.7%	5.62	6,775	2.59	\$9,210,744.99	\$1,359.52	2.9%	54%	46%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	976	0.0%	0.37	950	0.36	\$1,992,086.80	\$2,096.93	0.6%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	730	0.0%	0.28	423	0.16	\$1,649,625.05	\$3,899.82	0.5%	42%	58%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	94	0.0%	0.04	94	0.04	\$7,154.24	\$76.11	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	141	0.0%	0.05	141	0.05	\$25,579.07	\$181.41	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,602	0.1%	0.61	947	0.36	\$1,057,248.73	\$1,116.42	0.3%	41%	59%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,043	0.1%	0.78	832	0.32	\$1,329,865.91	\$1,598.40	0.4%	59%	41%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	60,715	2.9%	23.23	8,487	3.25	\$25,052,963.19	\$2,951.92	7.8%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	12,338	0.6%	4.72	6,146	2.35	\$3,681,124.97	\$598.95	1.1%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	455	0.0%	0.17	455	0.17	\$550,884.81	\$1,210.74	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	7,071	0.3%	2.71	3,711	1.42	\$6,750,825.80	\$1,819.14	2.1%	48%	52%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	14	0.0%	0.01	14	0.01	\$7,794.77	\$556.77	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	652	0.0%	0.25	652	0.25	\$1,601,729.00	\$2,456.64	0.5%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	1,580	0.1%	0.60	621	0.24	\$766,424.99	\$1,234.18	0.2%	61%	39%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	16	0.0%	0.01	16	0.01	\$42,482.14	\$2,655.13	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	7,244	0.4%	2.77	4,652	1.78	\$10,702,861.68	\$2,300.70	3.3%	36%	64%
<b>Disease Approach</b>	<b>32,462</b>	<b>1.6%</b>	<b>12.42</b>	<b>28,502</b>	<b>10.91</b>	<b>\$18,156,095.00</b>	<b>\$637.01</b>	<b>5.6%</b>	<b>12%</b>	<b>88%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	224	0.0%	0.09	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	430	0.0%	0.16	430	0.16	\$1,185,926.49	\$2,757.97	0.4%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	1,546	0.1%	0.59	1,546	0.59	\$384,259.14	\$248.55	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	30,262	1.5%	11.58	26,526	10.15	\$16,585,908.99	\$625.27	5.1%	12%	88%
<b>Preoperative evaluation</b>	<b>217,101</b>	<b>10.5%</b>	<b>83.07</b>	<b>178,960</b>	<b>68.47</b>	<b>\$68,949,293.00</b>	<b>\$385.28</b>	<b>21.4%</b>	<b>18%</b>	<b>82%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	323	0.0%	0.12	323	0.12	\$194,292.58	\$601.53	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	198,455	9.6%	75.93	160,314	61.34	\$61,664,128.57	\$384.65	19.1%	19%	81%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	18,323	0.9%	7.01	18,323	7.01	\$7,090,871.56	\$386.99	2.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>14,876</b>	<b>0.7%</b>	<b>5.69</b>	<b>2,886</b>	<b>1.10</b>	<b>\$4,327,732.00</b>	<b>\$1,499.56</b>	<b>1.3%</b>	<b>81%</b>	<b>19%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	5,958	0.3%	2.28	319	0.12	\$646,472.68	\$2,026.56	0.2%	95%	5%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	308	0.0%	0.12	308	0.12	\$283,479.07	\$920.39	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	1,503	0.1%	0.58	366	0.14	\$440,551.43	\$1,203.69	0.1%	76%	24%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	7,107	0.3%	2.72	1,893	0.72	\$2,957,228.75	\$1,562.19	0.9%	73%	27%
<b>Screening Tests</b>	<b>1,503,062</b>	<b>72.7%</b>	<b>575.09</b>	<b>562,877</b>	<b>215.36</b>	<b>\$128,368,378.00</b>	<b>\$228.06</b>	<b>39.8%</b>	<b>63%</b>	<b>37%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	30,049	1.5%	11.50	461	0.18	\$339,856.33	\$737.22	0.1%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	849,082	41.1%	324.87	110,027	42.10	\$36,804,162.52	\$334.50	11.4%	87%	13%
Don't perform Pap smears on women with previous hysterectomy	1,805	0.1%	0.69	1,019	0.39	\$227,736.66	\$223.49	0.1%	44%	56%
Don't perform Pap smears on women younger than 21	3,998	0.2%	1.53	3,469	1.33	\$835,854.72	\$240.95	0.3%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	124,210	6.0%	47.52	124,210	47.52	\$17,396,472.61	\$140.06	5.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	183,412	8.9%	70.18	148,250	56.72	\$33,597,766.23	\$226.63	10.4%	19%	81%
Don't perform routine general health checks for asymptomatic adults	69,507	3.4%	26.59	69,507	26.59	\$13,523,838.35	\$194.57	4.2%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	3,566	0.2%	1.36	3,566	1.36	\$461,701.44	\$129.47	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	25,483	1.2%	9.75	6,639	2.54	\$1,732,085.57	\$260.90	0.5%	74%	26%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	78,282	3.8%	29.95	9,528	3.65	\$2,774,392.66	\$291.18	0.9%	88%	12%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	133,668	6.5%	51.14	86,201	32.98	\$20,674,510.46	\$239.84	6.4%	36%	64%
<b>Grand Total</b>	<b>2,067,137</b>	<b>100.0%</b>	<b>790.91</b>	<b>991,146</b>	<b>379.22</b>	<b>\$322,927,128.73</b>	<b>\$325.81</b>	<b>100.0%</b>	<b>52%</b>	<b>48%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful





## 2013 Statewide Wasteful Services- Medicaid

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>96,362</b>	<b>20.6%</b>	<b>73.95</b>	<b>91,865</b>	<b>70.49</b>	<b>\$2,765,914.00</b>	<b>\$30.11</b>	<b>4.7%</b>	<b>5%</b>	<b>95%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	48,742	10.4%	37.40	44,508	34.15	\$2,320,359.90	\$52.13	3.9%	9%	91%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	158	0.0%	0.12	143	0.11	\$3,818.29	\$26.70	0.0%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,835	0.4%	1.41	1,587	1.22	\$111,651.64	\$70.35	0.2%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	69	0.0%	0.05	69	0.05	\$2,717.92	\$39.39	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	45,558	9.7%	34.96	45,558	34.96	\$327,366.71	\$7.19	0.6%	0%	100%
<b>Diagnostic Testing</b>	<b>47,890</b>	<b>10.2%</b>	<b>36.75</b>	<b>17,352</b>	<b>13.32</b>	<b>\$31,379,530.00</b>	<b>\$1,808.41</b>	<b>52.9%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	3,567	0.8%	2.74	3,269	2.51	\$1,392,756.69	\$426.05	2.3%	8%	92%
Don't do imaging for uncomplicated headache.	7,552	1.6%	5.80	3,253	2.50	\$1,752,048.17	\$538.59	3.0%	57%	43%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	458	0.1%	0.35	434	0.33	\$350,845.71	\$808.40	0.6%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	353	0.1%	0.27	169	0.13	\$484,394.90	\$2,866.24	0.8%	52%	48%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$12.84	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$22.66	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,022	0.2%	0.78	466	0.36	\$448,300.86	\$962.02	0.8%	54%	46%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	539	0.1%	0.41	203	0.16	\$250,269.99	\$1,232.86	0.4%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	20,742	4.4%	15.92	3,073	2.36	\$20,101,111.77	\$6,541.20	33.9%	85%	15%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	4,042	0.9%	3.10	677	0.52	\$571,087.16	\$843.56	1.0%	83%	17%
Don't routinely do diagnostic testing in patients with chronic urticaria.	81	0.0%	0.06	81	0.06	\$144,860.86	\$1,788.41	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,282	0.5%	1.75	1,309	1.00	\$1,953,976.41	\$1,492.72	3.3%	43%	57%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	708	0.2%	0.54	708	0.54	\$738,260.28	\$1,042.74	1.2%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	2,474	0.5%	1.90	1079	0.83	\$616,128.46	\$571.02	1.0%	56%	44%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	38	0.0%	0.03	38	0.03	\$45,688.32	\$1,202.32	0.1%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	4,032	0.9%	3.09	2,593	1.99	\$2,529,765.17	\$975.61	4.3%	36%	64%
<b>Disease Approach</b>	<b>29,741</b>	<b>6.3%</b>	<b>22.82</b>	<b>18,804</b>	<b>14.43</b>	<b>\$4,929,747.00</b>	<b>\$262.16</b>	<b>8.3%</b>	<b>37%</b>	<b>63%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	199	0.0%	0.15	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	65	0.0%	0.05	65	0.05	\$77,388.77	\$1,190.60	0.1%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	2,835	0.6%	2.18	2,835	2.18	\$478,211.36	\$168.68	0.8%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	26,642	5.7%	20.44	15,904	12.20	\$4,374,146.91	\$275.03	7.4%	40%	60%
<b>Preoperative evaluation</b>	<b>38,729</b>	<b>8.3%</b>	<b>29.72</b>	<b>33,212</b>	<b>25.49</b>	<b>\$6,808,473.00</b>	<b>\$205.00</b>	<b>11.5%</b>	<b>14%</b>	<b>86%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	128	0.0%	0.10	128	0.10	\$44,701.40	\$349.23	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	34,809	7.4%	26.71	29,292	22.48	\$6,139,032.82	\$209.58	10.3%	16%	84%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	3,792	0.8%	2.91	3,792	2.91	\$624,739.05	\$164.75	1.1%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,068</b>	<b>0.7%</b>	<b>2.35</b>	<b>332</b>	<b>0.25</b>	<b>\$401,981.00</b>	<b>\$1,210.79</b>	<b>0.7%</b>	<b>89%</b>	<b>11%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,411	0.3%	1.08	31	0.02	\$35,784.21	\$1,154.33	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	47	0.0%	0.04	47	0.04	\$32,068.90	\$682.32	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	465	0.1%	0.36	51	0.04	\$72,369.03	\$1,419.00	0.1%	89%	11%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,145	0.2%	0.88	203	0.16	\$261,759.28	\$1,289.45	0.4%	82%	18%
<b>Screening Tests</b>	<b>253,096</b>	<b>54.0%</b>	<b>194.22</b>	<b>58,559</b>	<b>44.94</b>	<b>\$13,036,092.00</b>	<b>\$222.61</b>	<b>22.0%</b>	<b>77%</b>	<b>23%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	6,507	1.4%	4.99	129	0.10	\$168,269.49	\$1,304.41	0.3%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	186,302	39.7%	142.96	12,275	9.42	\$9,184,816.44	\$748.25	15.5%	93%	7%
Don't perform Pap smears on women with previous hysterectomy	226	0.0%	0.17	129	0.10	\$16,317.55	\$126.49	0.0%	43%	57%
Don't perform Pap smears on women younger than 21	2,280	0.5%	1.75	1,935	1.48	\$177,445.10	\$91.70	0.3%	15%	85%
Don't perform population based screening for 25-OH-Vitamin D deficiency	13,952	3.0%	10.71	13,952	10.71	\$483,626.57	\$34.66	0.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	31,827	6.8%	24.42	24,136	18.52	\$2,161,094.03	\$89.54	3.6%	24%	76%
Don't perform routine general health checks for asymptomatic adults	2,491	0.5%	1.91	2,491	1.91	\$322,029.29	\$129.28	0.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	116	0.0%	0.09	116	0.09	\$3,971.07	\$34.23	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	1,507	0.3%	1.16	253	0.19	\$24,362.79	\$96.30	0.0%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	3,679	0.8%	2.82	504	0.39	\$181,563.02	\$360.24	0.3%	86%	14%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	4,209	0.9%	3.23	2,639	2.03	\$312,596.15	\$118.45	0.5%	37%	63%
<b>Grand Total</b>	<b>468,889</b>	<b>100.0%</b>	<b>359.81</b>	<b>220,127</b>	<b>168.92</b>	<b>\$59,321,737.94</b>	<b>\$269.49</b>	<b>100.0%</b>	<b>53%</b>	<b>47%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 Central Region Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>54,516</b>	<b>5.5%</b>	<b>54.86</b>	<b>53,180</b>	<b>53.51</b>	<b>\$7,064,780.00</b>	<b>\$132.85</b>	<b>5.9%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	42,897	4.3%	43.17	41,681	41.94	\$6,850,096.14	\$164.35	5.7%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	35	0.0%	0.04	33	0.03	\$2,338.00	\$70.85	0.0%	6%	94%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,157	0.1%	1.16	1,039	1.05	\$136,987.23	\$131.85	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	20	0.0%	0.02	20	0.02	\$1,166.89	\$58.34	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	10,407	1.0%	10.47	10,407	10.47	\$74,192.21	\$7.13	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>76,602</b>	<b>7.7%</b>	<b>77.08</b>	<b>27,276</b>	<b>27.45</b>	<b>\$36,727,280.00</b>	<b>\$1,346.51</b>	<b>30.4%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	11,253	1.1%	11.32	10,267	10.33	\$3,516,499.33	\$342.51	2.9%	9%	91%
Don't do imaging for uncomplicated headache.	6,645	0.7%	6.69	2,366	2.38	\$2,476,681.95	\$1,046.78	2.1%	64%	36%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	602	0.1%	0.61	589	0.59	\$800,012.64	\$1,358.26	0.7%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	727	0.1%	0.73	278	0.28	\$1,281,157.92	\$4,608.48	1.1%	62%	38%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	52	0.0%	0.05	52	0.05	\$4,890.14	\$94.04	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	102	0.0%	0.10	102	0.10	\$22,422.78	\$219.83	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	623	0.1%	0.63	318	0.32	\$417,074.09	\$1,311.55	0.3%	49%	51%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,374	0.1%	1.38	497	0.50	\$605,932.43	\$1,219.18	0.5%	64%	36%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	39,685	4.0%	39.93	4,084	4.11	\$14,272,332.87	\$3,494.69	11.8%	90%	10%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,484	0.3%	3.51	1,715	1.73	\$1,257,609.10	\$733.30	1.0%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	115	0.0%	0.12	115	0.12	\$134,059.38	\$1,165.73	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,767	0.4%	3.79	2,266	2.28	\$4,942,548.19	\$2,181.18	4.1%	40%	60%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$3,376.67	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	365	0.0%	0.37	343	0.35	\$525,211.64	\$1,531.23	0.4%	6%	94%
Don't perform computed tomography scans on children being treated for headache.	1,043	0.1%	1.05	437	0.44	\$490,214.22	\$1,121.77	0.4%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	15	0.0%	0.02	15	0.02	\$31,526.25	\$2,101.75	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	6,750	0.7%	6.79	3,832	3.86	\$5,945,730.26	\$1,551.60	4.9%	43%	57%
<b>Disease Approach</b>	<b>12,989</b>	<b>1.3%</b>	<b>13.07</b>	<b>10,143</b>	<b>10.21</b>	<b>\$4,368,784.00</b>	<b>\$430.72</b>	<b>3.6%</b>	<b>22%</b>	<b>78%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	72	0.0%	0.07	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	162	0.0%	0.16	162	0.16	\$388,567.81	\$2,398.57	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	1,094	0.1%	1.10	1,094	1.10	\$168,573.88	\$154.09	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	11,661	1.2%	11.73	8,887	8.94	\$3,811,641.89	\$428.90	3.2%	24%	76%
<b>Preoperative evaluation</b>	<b>124,025</b>	<b>12.4%</b>	<b>124.80</b>	<b>96,209</b>	<b>96.81</b>	<b>\$37,845,745.00</b>	<b>\$393.37</b>	<b>31.4%</b>	<b>22%</b>	<b>78%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	83	0.0%	0.08	82	0.08	\$42,340.79	\$516.35	0.0%	1%	99%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	116,929	11.7%	117.66	89,168	89.73	\$34,552,845.38	\$387.50	28.6%	24%	76%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	7,013	0.7%	7.06	6,959	7.00	\$3,250,558.82	\$467.10	2.7%	1%	99%
<b>Routine FU/Monitoring</b>	<b>15,019</b>	<b>1.5%</b>	<b>15.11</b>	<b>1,747</b>	<b>1.76</b>	<b>\$3,363,653.00</b>	<b>\$1,925.39</b>	<b>2.8%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,981	0.7%	7.02	168	0.17	\$326,689.59	\$1,944.58	0.3%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	146	0.0%	0.15	139	0.14	\$135,251.50	\$973.03	0.1%	5%	95%
Don't perform routine annual stress testing after coronary artery revascularization.	1,766	0.2%	1.78	231	0.23	\$377,714.56	\$1,635.13	0.3%	87%	13%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	6,126	0.6%	6.16	1,209	1.22	\$2,523,997.44	\$2,087.67	2.1%	80%	20%
<b>Screening Tests</b>	<b>714,019</b>	<b>71.6%</b>	<b>718.48</b>	<b>134,130</b>	<b>134.97</b>	<b>\$31,334,814.00</b>	<b>\$233.62</b>	<b>26.0%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	16,040	1.6%	16.14	120	0.12	\$96,685.84	\$805.72	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	497,206	49.9%	500.31	22,064	22.20	\$10,145,853.43	\$459.84	8.4%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	773	0.1%	0.78	314	0.32	\$60,843.88	\$193.77	0.1%	59%	41%
Don't perform Pap smears on women younger than 21	1,383	0.1%	1.39	1,206	1.21	\$226,356.10	\$187.69	0.2%	13%	87%
Don't perform population based screening for 25-OH-Vitamin D deficiency	21,076	2.1%	21.21	21,076	21.21	\$2,279,140.03	\$108.14	1.9%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	40,712	4.1%	40.97	32,424	32.63	\$6,376,394.61	\$196.66	5.3%	20%	80%
Don't perform routine general health checks for asymptomatic adults	12,206	1.2%	12.28	12,206	12.28	\$2,190,927.23	\$179.50	1.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	6,098	0.6%	6.14	6,098	6.14	\$587,128.93	\$96.28	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	12,714	1.3%	12.79	1,803	1.81	\$413,658.83	\$229.43	0.3%	86%	14%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	33,504	3.4%	33.71	6,724	6.77	\$2,763,409.84	\$410.98	2.3%	80%	20%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	72,307	7.3%	72.76	30,095	30.28	\$6,194,414.83	\$205.83	5.1%	58%	42%
<b>Grand Total</b>	<b>997,178</b>	<b>100.0%</b>	<b>1003.41</b>	<b>322,693</b>	<b>324.71</b>	<b>\$120,705,055.54</b>	<b>\$374.06</b>	<b>100.0%</b>	<b>68%</b>	<b>32%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Central Region Wasteful Services- Commercial

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>35,766</b>	<b>8.3%</b>	<b>71.77</b>	<b>35,182</b>	<b>70.60</b>	<b>\$6,506,446.00</b>	<b>\$184.94</b>	<b>10.2%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	34,242	8.0%	68.71	33,732	67.69	\$6,389,967.29	\$189.43	10.0%	1%	99%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	17	0.0%	0.03	17	0.03	\$1,253.33	\$73.73	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	842	0.2%	1.69	768	1.54	\$112,836.29	\$146.92	0.2%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$763.70	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	665	0.2%	1.33	665	1.33	\$1,625.52	\$2.44	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>29,480</b>	<b>6.9%</b>	<b>59.16</b>	<b>13,674</b>	<b>27.44</b>	<b>\$16,715,752.00</b>	<b>\$1,222.45</b>	<b>26.2%</b>	<b>54%</b>	<b>46%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	6,935	1.6%	13.92	6,587	13.22	\$2,186,801.14	\$331.99	3.4%	5%	95%
Don't do imaging for uncomplicated headache.	2,922	0.7%	5.86	1,261	2.53	\$1,780,759.61	\$1,412.18	2.8%	57%	43%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	215	0.1%	0.43	211	0.42	\$482,791.05	\$2,288.11	0.8%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	125	0.0%	0.25	70	0.14	\$402,040.75	\$5,743.44	0.6%	44%	56%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	52	0.0%	0.10	52	0.10	\$4,890.14	\$94.04	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	102	0.0%	0.20	102	0.20	\$22,422.78	\$219.83	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	247	0.1%	0.50	139	0.28	\$202,460.31	\$1,456.55	0.3%	44%	56%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	394	0.1%	0.79	140	0.28	\$229,306.64	\$1,637.90	0.4%	64%	36%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	12,136	2.8%	24.35	1,416	2.84	\$4,755,008.65	\$3,358.06	7.4%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,945	0.5%	3.90	1,016	2.04	\$522,548.98	\$514.32	0.8%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	70	0.0%	0.14	70	0.14	\$56,608.71	\$808.70	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,798	0.4%	3.61	1,048	2.10	\$2,265,374.02	\$2,161.62	3.5%	42%	58%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$831.55	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	115	0.0%	0.23	115	0.23	\$257,501.88	\$2,239.15	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	404	0.1%	0.81	158	0.32	\$234,345.46	\$1,483.20	0.4%	61%	39%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$17,878.77	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	2,020	0.5%	4.05	1,289	2.59	\$3,294,181.41	\$2,555.61	5.2%	36%	64%
<b>Disease Approach</b>	<b>6,130</b>	<b>1.4%</b>	<b>12.30</b>	<b>5,497</b>	<b>11.03</b>	<b>\$3,197,050.00</b>	<b>\$581.60</b>	<b>5.0%</b>	<b>10%</b>	<b>90%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	37	0.0%	0.07	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	106	0.0%	0.21	106	0.21	\$289,617.20	\$2,732.24	0.5%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	276	0.1%	0.55	276	0.55	\$60,898.80	\$220.65	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	5,711	1.3%	11.46	5,115	10.26	\$2,846,534.26	\$556.51	4.5%	10%	90%
<b>Preoperative evaluation</b>	<b>47,473</b>	<b>11.0%</b>	<b>95.26</b>	<b>37,111</b>	<b>74.47</b>	<b>\$15,023,233.00</b>	<b>\$404.82</b>	<b>23.5%</b>	<b>22%</b>	<b>78%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	51	0.0%	0.10	51	0.10	\$32,389.71	\$635.09	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	43,541	10.1%	87.37	33,179	66.58	\$13,613,244.28	\$410.30	21.3%	24%	76%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	3,881	0.9%	7.79	3,881	7.79	\$1,377,599.16	\$354.96	2.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,657</b>	<b>0.9%</b>	<b>7.34</b>	<b>605</b>	<b>1.21</b>	<b>\$1,361,865.00</b>	<b>\$2,251.02</b>	<b>2.1%</b>	<b>83%</b>	<b>17%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,466	0.3%	2.94	70	0.14	\$233,377.17	\$3,333.96	0.4%	95%	5%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	62	0.0%	0.12	62	0.12	\$67,596.28	\$1,090.26	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	317	0.1%	0.64	77	0.15	\$47,390.45	\$615.46	0.1%	76%	24%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,812	0.4%	3.64	396	0.79	\$1,013,500.67	\$2,559.35	1.6%	78%	22%
<b>Screening Tests</b>	<b>307,177</b>	<b>71.5%</b>	<b>616.40</b>	<b>96,436</b>	<b>193.51</b>	<b>\$21,098,519.00</b>	<b>\$218.78</b>	<b>33.0%</b>	<b>69%</b>	<b>31%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	6,089	1.4%	12.22	51	0.10	\$48,456.43	\$950.13	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	181,121	42.2%	363.45	17,117	34.35	\$5,964,989.88	\$348.48	9.3%	91%	9%
Don't perform Pap smears on women with previous hysterectomy	405	0.1%	0.81	242	0.49	\$50,790.00	\$209.88	0.1%	40%	60%
Don't perform Pap smears on women younger than 21	922	0.2%	1.85	822	1.65	\$190,446.31	\$231.69	0.3%	11%	89%
Don't perform population based screening for 25-OH-Vitamin D deficiency	15,796	3.7%	31.70	15,796	31.70	\$1,758,430.92	\$111.32	2.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	34,211	8.0%	68.65	27,325	54.83	\$5,866,378.75	\$214.69	9.2%	20%	80%
Don't perform routine general health checks for asymptomatic adults	11,629	2.7%	23.34	11,629	23.34	\$2,115,921.96	\$181.95	3.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	863	0.2%	1.73	863	1.73	\$102,301.57	\$118.54	0.2%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	4,417	1.0%	8.86	1,076	2.16	\$259,762.39	\$241.41	0.4%	76%	24%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	18,971	4.4%	38.07	1,657	3.33	\$552,932.18	\$333.69	0.9%	91%	9%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	32,753	7.6%	65.72	19,858	39.85	\$4,188,108.89	\$210.90	6.6%	39%	61%
<b>Grand Total</b>	<b>429,700</b>	<b>100.0%</b>	<b>862.26</b>	<b>188,522</b>	<b>378.30</b>	<b>\$63,902,865.24</b>	<b>\$338.97</b>	<b>100.0%</b>	<b>56%</b>	<b>44%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Central Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>18,082</b>	<b>19.2%</b>	<b>72.12</b>	<b>17,352</b>	<b>69.21</b>	<b>\$466,595.00</b>	<b>\$26.89</b>	<b>3.4%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	8,009	8.5%	31.94	7,321	29.20	\$369,207.27	\$50.43	2.7%	9%	91%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	17	0.0%	0.07	15	0.06	\$969.56	\$64.64	0.0%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	303	0.3%	1.21	263	1.05	\$23,448.06	\$89.16	0.2%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	11	0.0%	0.04	11	0.04	\$403.19	\$36.65	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	9,742	10.4%	38.85	9,742	38.85	\$72,566.69	\$7.45	0.5%	0%	100%
<b>Diagnostic Testing</b>	<b>9,371</b>	<b>10.0%</b>	<b>37.37</b>	<b>3,701</b>	<b>14.76</b>	<b>\$6,610,036.00</b>	<b>\$1,786.01</b>	<b>48.3%</b>	<b>61%</b>	<b>39%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	630	0.7%	2.51	589	2.35	\$263,022.45	\$446.56	1.9%	7%	93%
Don't do imaging for uncomplicated headache.	1,606	1.7%	6.41	774	3.09	\$411,400.12	\$531.52	3.0%	52%	48%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	98	0.1%	0.39	93	0.37	\$77,534.68	\$833.71	0.6%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	55	0.1%	0.22	27	0.11	\$65,809.09	\$2,437.37	0.5%	51%	49%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	195	0.2%	0.78	83	0.33	\$130,004.68	\$1,566.32	1.0%	57%	43%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	83	0.1%	0.33	31	0.12	\$52,376.56	\$1,689.57	0.4%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,782	4.0%	15.08	592	2.36	\$3,873,654.53	\$6,543.34	28.3%	84%	16%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	617	0.7%	2.46	109	0.43	\$110,222.69	\$1,011.22	0.8%	82%	18%
Don't routinely do diagnostic testing in patients with chronic urticaria.	11	0.0%	0.04	11	0.04	\$30,534.70	\$2,775.88	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	517	0.6%	2.06	321	1.28	\$591,479.64	\$1,842.62	4.3%	38%	62%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	150	0.2%	0.60	150	0.60	\$172,458.62	\$1,149.72	1.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	639	0.7%	2.55	279	1.11	\$255,868.76	\$917.09	1.9%	56%	44%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$13,647.48	*	0.1%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	988	1.1%	3.94	642	2.56	\$562,021.76	\$875.42	4.1%	35%	65%
<b>Disease Approach</b>	<b>6,136</b>	<b>6.5%</b>	<b>24.47</b>	<b>3,978</b>	<b>15.87</b>	<b>\$933,243.00</b>	<b>\$234.60</b>	<b>6.8%</b>	<b>35%</b>	<b>65%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	35	0.0%	0.14	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	11	0.0%	0.04	11	0.04	\$11,616.97	\$1,056.09	0.1%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	799	0.9%	3.19	799	3.19	\$100,851.02	\$126.22	0.7%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	5,291	5.6%	21.10	3,168	12.64	\$820,774.55	\$259.08	6.0%	40%	60%
<b>Preoperative evaluation</b>	<b>7,787</b>	<b>8.3%</b>	<b>31.06</b>	<b>6,648</b>	<b>26.51</b>	<b>\$1,619,250.00</b>	<b>\$243.57</b>	<b>11.8%</b>	<b>15%</b>	<b>85%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	20	0.0%	0.08	20	0.08	\$3,559.63	\$177.98	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	6,792	7.2%	27.09	5,653	22.55	\$1,493,253.44	\$264.15	10.9%	17%	83%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	975	1.0%	3.89	975	3.89	\$122,437.25	\$125.58	0.9%	0%	100%
<b>Routine FU/Monitoring</b>	<b>667</b>	<b>0.7%</b>	<b>2.66</b>	<b>46</b>	<b>0.18</b>	<b>\$92,219.00</b>	<b>\$2,004.77</b>	<b>0.7%</b>	<b>93%</b>	<b>7%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	311	0.3%	1.24	*	*	\$3,753.75	*	0.0%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$2,962.15	*	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	114	0.1%	0.45	12	0.05	\$33,805.03	\$2,817.09	0.2%	89%	11%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	242	0.3%	0.97	34	0.14	\$51,698.37	\$1,520.54	0.4%	86%	14%
<b>Screening Tests</b>	<b>51,891</b>	<b>55.2%</b>	<b>206.96</b>	<b>13,218</b>	<b>52.72</b>	<b>\$3,962,866.00</b>	<b>\$299.81</b>	<b>29.0%</b>	<b>75%</b>	<b>25%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,178	1.3%	4.70	54	0.22	\$38,625.51	\$715.29	0.3%	95%	5%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	38,720	41.2%	154.43	3,834	15.29	\$3,115,156.31	\$812.51	22.8%	90%	10%
Don't perform Pap smears on women with previous hysterectomy	37	0.0%	0.15	26	0.10	\$3,628.18	\$139.55	0.0%	30%	70%
Don't perform Pap smears on women younger than 21	455	0.5%	1.81	378	1.51	\$34,595.31	\$91.52	0.3%	17%	83%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,619	2.8%	10.45	2,619	10.45	\$94,444.88	\$36.06	0.7%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	6,482	6.9%	25.85	5,080	20.26	\$506,965.83	\$99.80	3.7%	22%	78%
Don't perform routine general health checks for asymptomatic adults	481	0.5%	1.92	481	1.92	\$64,753.60	\$134.62	0.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	14	0.0%	0.06	14	0.06	\$352.74	\$25.20	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	211	0.2%	0.84	44	0.18	\$5,494.49	\$124.87	0.0%	79%	21%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	840	0.9%	3.35	107	0.43	\$30,741.32	\$287.30	0.2%	87%	13%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	854	0.9%	3.41	581	2.32	\$68,107.83	\$117.23	0.5%	32%	68%
<b>Grand Total</b>	<b>93,949</b>	<b>100.0%</b>	<b>374.70</b>	<b>44,966</b>	<b>179.34</b>	<b>\$13,684,208.69</b>	<b>\$304.32</b>	<b>100.0%</b>	<b>52%</b>	<b>48%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2013 Eastern Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>52,653</b>	<b>4.9%</b>	<b>47.62</b>	<b>50,572</b>	<b>45.73</b>	<b>\$6,462,959.00</b>	<b>\$127.80</b>	<b>5.1%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	40,584	3.8%	36.70	38,640	34.94	\$6,236,918.56	\$161.41	4.9%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	63	0.0%	0.06	54	0.05	\$2,329.08	\$43.13	0.0%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,175	0.1%	1.06	1,047	0.95	\$126,224.00	\$120.56	0.1%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$627.83	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	10,831	1.0%	9.80	10,831	9.80	\$96,859.07	\$8.94	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>89,760</b>	<b>8.3%</b>	<b>81.17</b>	<b>29,174</b>	<b>26.38</b>	<b>\$37,792,207.00</b>	<b>\$1,295.41</b>	<b>29.6%</b>	<b>67%</b>	<b>33%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	10,716	1.0%	9.69	9,252	8.37	\$3,751,672.63	\$405.50	2.9%	14%	86%
Don't do imaging for uncomplicated headache.	7,701	0.7%	6.96	2,305	2.08	\$2,662,662.09	\$1,155.17	2.1%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	637	0.1%	0.58	612	0.55	\$890,017.41	\$1,454.28	0.7%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,307	0.1%	1.18	471	0.43	\$2,344,370.20	\$4,977.43	1.8%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$1,231.81	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	36	0.0%	0.03	36	0.03	\$3,021.38	\$83.93	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	764	0.1%	0.69	325	0.29	\$324,253.90	\$997.70	0.3%	57%	43%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,021	0.2%	1.83	817	0.74	\$964,791.88	\$1,180.90	0.8%	60%	40%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	50,189	4.6%	45.39	6,221	5.63	\$14,886,422.65	\$2,392.93	11.7%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	4,444	0.4%	4.02	2,199	1.99	\$1,661,688.41	\$755.66	1.3%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	113	0.0%	0.10	113	0.10	\$271,279.46	\$2,400.70	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,975	0.4%	3.59	2,519	2.28	\$4,020,494.17	\$1,596.07	3.1%	37%	63%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,067.84	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	345	0.0%	0.31	323	0.29	\$586,541.38	\$1,815.92	0.5%	6%	94%
Don't perform computed tomography scans on children being treated for headache.	876	0.1%	0.79	367	0.33	\$258,289.02	\$703.78	0.2%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$8,003.15	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	6,636	0.6%	6.00	3,614	3.27	\$5,152,399.81	\$1,425.68	4.0%	46%	54%
<b>Disease Approach</b>	<b>19,470</b>	<b>1.8%</b>	<b>17.61</b>	<b>14,511</b>	<b>13.12</b>	<b>\$7,491,427.00</b>	<b>\$516.26</b>	<b>5.9%</b>	<b>25%</b>	<b>75%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	138	0.0%	0.12	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	125	0.0%	0.11	125	0.11	\$305,293.93	\$2,442.35	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	801	0.1%	0.72	801	0.72	\$189,288.80	\$236.32	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	18,406	1.7%	16.65	13,585	12.29	\$6,996,844.68	\$515.04	5.5%	26%	74%
<b>Preoperative evaluation</b>	<b>156,261</b>	<b>14.5%</b>	<b>141.31</b>	<b>125,294</b>	<b>113.31</b>	<b>\$43,720,364.00</b>	<b>\$348.94</b>	<b>34.3%</b>	<b>20%</b>	<b>80%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	95	0.0%	0.09	95	0.09	\$43,611.22	\$459.07	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	149,122	13.8%	134.86	118,230	106.92	\$40,732,219.43	\$344.52	31.9%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	7,044	0.7%	6.37	6,969	6.30	\$2,944,532.98	\$422.52	2.3%	1%	99%
<b>Routine FU/Monitoring</b>	<b>16,270</b>	<b>1.5%</b>	<b>14.71</b>	<b>2,322</b>	<b>2.10</b>	<b>\$3,819,069.00</b>	<b>\$1,644.73</b>	<b>3.0%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	7,360	0.7%	6.66	265	0.24	\$316,208.98	\$1,193.24	0.2%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	303	0.0%	0.27	278	0.25	\$206,379.06	\$742.37	0.2%	8%	92%
Don't perform routine annual stress testing after coronary artery revascularization.	1,905	0.2%	1.72	245	0.22	\$501,137.71	\$2,045.46	0.4%	87%	13%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	6,702	0.6%	6.06	1,534	1.39	\$2,795,343.51	\$1,822.26	2.2%	77%	23%
<b>Screening Tests</b>	<b>745,292</b>	<b>69.0%</b>	<b>674.00</b>	<b>122,420</b>	<b>110.71</b>	<b>\$28,355,511.00</b>	<b>\$231.62</b>	<b>22.2%</b>	<b>84%</b>	<b>16%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	20,869	1.9%	18.87	106	0.10	\$146,302.69	\$1,380.21	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	523,287	48.5%	473.23	15,619	14.13	\$6,921,173.36	\$443.13	5.4%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	1,084	0.1%	0.98	322	0.29	\$68,591.29	\$213.02	0.1%	70%	30%
Don't perform Pap smears on women younger than 21	1,455	0.1%	1.32	1,236	1.12	\$227,116.86	\$183.75	0.2%	15%	85%
Don't perform population based screening for 25-OH-Vitamin D deficiency	20,733	1.9%	18.75	20,733	18.75	\$2,406,144.62	\$116.05	1.9%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	39,406	3.6%	35.64	31,292	28.30	\$6,345,177.77	\$202.77	5.0%	21%	79%
Don't perform routine general health checks for asymptomatic adults	8,987	0.8%	8.13	8,987	8.13	\$1,607,832.05	\$178.91	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	6,115	0.6%	5.53	6,115	5.53	\$607,307.03	\$99.31	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	15,356	1.4%	13.89	1,830	1.65	\$463,173.73	\$253.10	0.4%	88%	12%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	35,333	3.3%	31.95	8,150	7.37	\$3,168,580.23	\$388.78	2.5%	77%	23%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	72,667	6.7%	65.72	28,030	25.35	\$6,394,111.42	\$228.12	5.0%	61%	39%
<b>Grand Total</b>	<b>1,079,743</b>	<b>100.0%</b>	<b>976.46</b>	<b>344,330</b>	<b>311.39</b>	<b>\$127,641,537.08</b>	<b>\$370.70</b>	<b>100.0%</b>	<b>68%</b>	<b>32%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Eastern Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>33,171</b>	<b>8.5%</b>	<b>67.57</b>	<b>31,999</b>	<b>65.19</b>	<b>\$5,929,282.00</b>	<b>\$185.30</b>	<b>10.0%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	31,282	8.0%	63.72	30,194	61.51	\$5,808,708.74	\$192.38	9.8%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	16	0.0%	0.03	13	0.03	\$1,622.32	\$124.79	0.0%	19%	81%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	829	0.2%	1.69	748	1.52	\$107,780.88	\$144.09	0.2%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$477.48	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	1,044	0.3%	2.13	1,044	2.13	\$10,692.96	\$10.24	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>28,289</b>	<b>7.2%</b>	<b>57.63</b>	<b>11,878</b>	<b>24.20</b>	<b>\$14,182,468.00</b>	<b>\$1,194.01</b>	<b>23.9%</b>	<b>58%</b>	<b>42%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	5,322	1.4%	10.84	4,945	10.07	\$2,177,001.33	\$440.24	3.7%	7%	93%
Don't do imaging for uncomplicated headache.	3,016	0.8%	6.14	1,167	2.38	\$1,863,235.12	\$1,596.60	3.1%	61%	39%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	200	0.1%	0.41	190	0.39	\$479,396.36	\$2,523.14	0.8%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	174	0.0%	0.35	101	0.21	\$452,777.71	\$4,482.95	0.8%	42%	58%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$1,231.81	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	35	0.0%	0.07	35	0.07	\$2,998.72	\$85.68	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	302	0.1%	0.62	141	0.29	\$143,681.36	\$1,019.02	0.2%	53%	47%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	399	0.1%	0.81	149	0.30	\$241,478.84	\$1,620.66	0.4%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	13,370	3.4%	27.24	1,847	3.76	\$4,026,698.20	\$2,180.13	6.8%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,620	0.4%	3.30	849	1.73	\$549,645.70	\$647.40	0.9%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	67	0.0%	0.14	67	0.14	\$171,637.46	\$2,561.75	0.3%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,756	0.4%	3.58	1,143	2.33	\$1,372,458.95	\$1,200.75	2.3%	35%	65%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$179.08	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	132	0.0%	0.27	132	0.27	\$338,948.13	\$2,567.79	0.6%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	286	0.1%	0.58	108	0.22	\$125,900.12	\$1,165.74	0.2%	62%	38%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$326.36	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,610	0.4%	3.28	1,004	2.05	\$2,234,873.21	\$2,225.97	3.8%	38%	62%
<b>Disease Approach</b>	<b>10,847</b>	<b>2.8%</b>	<b>22.10</b>	<b>9,045</b>	<b>18.43</b>	<b>\$5,851,372.00</b>	<b>\$646.92</b>	<b>9.9%</b>	<b>17%</b>	<b>83%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	65	0.0%	0.13	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	76	0.0%	0.15	76	0.15	\$234,321.46	\$3,083.18	0.4%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	260	0.1%	0.53	260	0.53	\$84,965.42	\$326.79	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	10,446	2.7%	21.28	8,709	17.74	\$5,532,084.82	\$635.21	9.3%	17%	83%
<b>Preoperative evaluation</b>	<b>45,533</b>	<b>11.7%</b>	<b>92.76</b>	<b>36,876</b>	<b>75.12</b>	<b>\$13,774,584.00</b>	<b>\$373.54</b>	<b>23.2%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	39	0.0%	0.08	39	0.08	\$23,349.75	\$598.71	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	42,140	10.8%	85.84	33,483	68.21	\$12,579,885.93	\$375.71	21.2%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	3,354	0.9%	6.83	3,354	6.83	\$1,171,347.95	\$349.24	2.0%	0%	100%
<b>Routine FU/Monitoring</b>	<b>3,314</b>	<b>0.8%</b>	<b>6.75</b>	<b>651</b>	<b>1.33</b>	<b>\$1,039,696.00</b>	<b>\$1,597.08</b>	<b>1.8%</b>	<b>80%</b>	<b>20%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,265	0.3%	2.58	71	0.14	\$122,036.25	\$1,718.82	0.2%	94%	6%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	102	0.0%	0.21	102	0.21	\$79,617.99	\$780.57	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	319	0.1%	0.65	49	0.10	\$229,696.54	\$4,687.68	0.4%	85%	15%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,628	0.4%	3.32	429	0.87	\$608,345.37	\$1,418.05	1.0%	74%	26%
<b>Screening Tests</b>	<b>269,159</b>	<b>69.0%</b>	<b>548.30</b>	<b>79,977</b>	<b>162.92</b>	<b>\$18,596,764.00</b>	<b>\$232.53</b>	<b>31.3%</b>	<b>70%</b>	<b>30%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	6,669	1.7%	13.59	80	0.16	\$124,283.46	\$1,553.54	0.2%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	160,642	41.2%	327.24	12,355	25.17	\$4,194,384.52	\$339.49	7.1%	92%	8%
Don't perform Pap smears on women with previous hysterectomy	409	0.1%	0.83	230	0.47	\$54,336.54	\$236.25	0.1%	44%	56%
Don't perform Pap smears on women younger than 21	809	0.2%	1.65	694	1.41	\$184,282.86	\$265.54	0.3%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	15,106	3.9%	30.77	15,106	30.77	\$1,962,630.75	\$129.92	3.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	29,689	7.6%	60.48	23,818	48.52	\$5,747,202.29	\$241.30	9.7%	20%	80%
Don't perform routine general health checks for asymptomatic adults	8,300	2.1%	16.91	8,300	16.91	\$1,526,293.42	\$183.89	2.6%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	609	0.2%	1.24	609	1.24	\$78,746.65	\$129.30	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	4,655	1.2%	9.48	888	1.81	\$247,981.37	\$279.26	0.4%	81%	19%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	17,091	4.4%	34.82	1,651	3.36	\$611,975.02	\$370.67	1.0%	90%	10%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	25,180	6.5%	51.29	16,246	33.09	\$3,864,647.34	\$237.88	6.5%	35%	65%
<b>Grand Total</b>	<b>390,329</b>	<b>100.0%</b>	<b>795.14</b>	<b>170,442</b>	<b>347.21</b>	<b>\$59,374,166.54</b>	<b>\$348.35</b>	<b>100.0%</b>	<b>56%</b>	<b>44%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Eastern Region Wasteful Services- Medicaid

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>19,334</b>	<b>17.2%</b>	<b>60.54</b>	<b>18,426</b>	<b>57.70</b>	<b>\$514,566.00</b>	<b>\$27.93</b>	<b>4.1%</b>	<b>5%</b>	<b>95%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	9,157	8.1%	28.67	8,301	25.99	\$409,263.69	\$49.30	3.3%	9%	91%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	47	0.0%	0.15	41	0.13	\$706.76	\$17.24	0.0%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	343	0.3%	1.07	297	0.93	\$18,279.07	\$61.55	0.1%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$150.35	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	9,787	8.7%	30.65	9,787	30.65	\$86,166.11	\$8.80	0.7%	0%	100%
<b>Diagnostic Testing</b>	<b>11,355</b>	<b>10.1%</b>	<b>35.56</b>	<b>4,058</b>	<b>12.71</b>	<b>\$5,859,072.00</b>	<b>\$1,443.83</b>	<b>47.2%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	976	0.9%	3.06	882	2.76	\$344,998.68	\$391.15	2.8%	10%	90%
Don't do imaging for uncomplicated headache.	2,041	1.8%	6.39	840	2.63	\$517,957.84	\$616.62	4.2%	59%	41%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	101	0.1%	0.32	96	0.30	\$83,842.66	\$873.36	0.7%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	93	0.1%	0.29	49	0.15	\$173,544.90	\$3,541.73	1.4%	47%	53%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$22.66	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	232	0.2%	0.73	68	0.21	\$57,882.64	\$851.22	0.5%	71%	29%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	88	0.1%	0.28	32	0.10	\$49,643.15	\$1,551.35	0.4%	64%	36%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,545	4.0%	14.23	557	1.74	\$3,063,022.60	\$5,499.14	24.7%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,029	0.9%	3.22	177	0.55	\$158,800.67	\$897.18	1.3%	83%	17%
Don't routinely do diagnostic testing in patients with chronic urticaria.	18	0.0%	0.06	18	0.06	\$75,821.88	\$4,212.33	0.6%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	510	0.5%	1.60	301	0.94	\$390,040.69	\$1,295.82	3.1%	41%	59%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	128	0.1%	0.40	128	0.40	\$167,144.82	\$1,305.82	1.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	590	0.5%	1.85	259	0.81	\$132,388.90	\$511.15	1.1%	56%	44%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$7,676.79	*	0.1%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,004	0.9%	3.14	651	2.04	\$636,282.87	\$977.39	5.1%	35%	65%
<b>Disease Approach</b>	<b>8,324</b>	<b>7.4%</b>	<b>26.07</b>	<b>5,192</b>	<b>16.26</b>	<b>\$1,536,183.00</b>	<b>\$295.88</b>	<b>12.4%</b>	<b>38%</b>	<b>62%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	72	0.1%	0.23	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	13	0.0%	0.04	13	0.04	\$14,802.64	\$1,138.66	0.1%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	532	0.5%	1.67	532	1.67	\$102,756.47	\$193.15	0.8%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	7,707	6.8%	24.13	4,647	14.55	\$1,418,624.24	\$305.28	11.4%	40%	60%
<b>Preoperative evaluation</b>	<b>10,552</b>	<b>9.4%</b>	<b>33.04</b>	<b>9,099</b>	<b>28.49</b>	<b>\$1,738,862.00</b>	<b>\$191.10</b>	<b>14.0%</b>	<b>14%</b>	<b>86%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	39	0.0%	0.12	39	0.12	\$8,931.93	\$229.02	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	9,707	8.6%	30.40	8,254	25.85	\$1,582,434.99	\$191.72	12.7%	15%	85%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	806	0.7%	2.52	806	2.52	\$147,495.15	\$183.00	1.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>737</b>	<b>0.7%</b>	<b>2.31</b>	<b>88</b>	<b>0.28</b>	<b>\$166,787.00</b>	<b>\$1,895.30</b>	<b>1.3%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	344	0.3%	1.08	11	0.03	\$28,987.90	\$2,635.26	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	15	0.0%	0.05	15	0.05	\$8,165.33	\$544.36	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	97	0.1%	0.30	12	0.04	\$18,826.88	\$1,568.91	0.2%	88%	12%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	281	0.2%	0.88	50	0.16	\$110,806.49	\$2,216.13	0.9%	82%	18%
<b>Screening Tests</b>	<b>62,264</b>	<b>55.3%</b>	<b>194.97</b>	<b>14,179</b>	<b>44.40</b>	<b>\$2,600,381.00</b>	<b>\$183.40</b>	<b>20.9%</b>	<b>77%</b>	<b>23%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,926	1.7%	6.03	*	*	\$2,809.49	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	44,164	39.2%	138.29	1,952	6.11	\$1,613,815.01	\$826.75	13.0%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	85	0.1%	0.27	46	0.14	\$5,048.03	\$109.74	0.0%	46%	54%
Don't perform Pap smears on women younger than 21	643	0.6%	2.01	540	1.69	\$42,398.82	\$78.52	0.3%	16%	84%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,794	2.5%	8.75	2,794	8.75	\$95,530.15	\$34.19	0.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	9,691	8.6%	30.35	7,454	23.34	\$594,894.98	\$79.81	4.8%	23%	77%
Don't perform routine general health checks for asymptomatic adults	602	0.5%	1.89	602	1.89	\$76,506.03	\$127.09	0.6%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	24	0.0%	0.08	24	0.08	\$459.25	\$19.14	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	366	0.3%	1.15	34	0.11	\$3,220.58	\$94.72	0.0%	91%	9%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	996	0.9%	3.12	132	0.41	\$93,573.09	\$708.89	0.8%	87%	13%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	973	0.9%	3.05	601	1.88	\$72,125.53	\$120.01	0.6%	38%	62%
<b>Grand Total</b>	<b>112,582</b>	<b>100.0%</b>	<b>352.53</b>	<b>51,062</b>	<b>159.89</b>	<b>\$12,415,850.71</b>	<b>\$243.15</b>	<b>100.0%</b>	<b>55%</b>	<b>45%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 Northern Region Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>63,174</b>	<b>5.0%</b>	<b>44.53</b>	<b>60,821</b>	<b>42.87</b>	<b>\$9,050,334.00</b>	<b>\$148.80</b>	<b>5.3%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	53,395	4.2%	37.64	51,185	36.08	\$8,797,668.71	\$171.88	5.2%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	111	0.0%	0.08	101	0.07	\$5,237.34	\$51.85	0.0%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,625	0.1%	1.15	1,492	1.05	\$198,612.99	\$133.12	0.1%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$710.20	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	8,043	0.6%	5.67	8,043	5.67	\$48,104.70	\$5.98	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>86,996</b>	<b>6.9%</b>	<b>61.32</b>	<b>31,078</b>	<b>21.91</b>	<b>\$47,379,563.00</b>	<b>\$1,524.54</b>	<b>27.9%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	11,062	0.9%	7.80	9,608	6.77	\$4,422,745.44	\$460.32	2.6%	13%	87%
Don't do imaging for uncomplicated headache.	8,271	0.7%	5.83	3,373	2.38	\$3,764,947.48	\$1,116.20	2.2%	59%	41%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	670	0.1%	0.47	646	0.46	\$908,370.98	\$1,406.15	0.5%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	832	0.1%	0.59	338	0.24	\$1,389,258.23	\$4,110.23	0.8%	59%	41%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	14	0.0%	0.01	14	0.01	\$383.61	\$27.40	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$43.63	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,239	0.1%	0.87	762	0.54	\$831,559.57	\$1,091.29	0.5%	38%	62%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,073	0.2%	1.46	804	0.57	\$1,086,446.27	\$1,351.30	0.6%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	44,551	3.5%	31.40	6,466	4.56	\$23,335,565.83	\$3,608.96	13.7%	85%	15%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	7,847	0.6%	5.53	3,600	2.54	\$2,303,239.35	\$639.79	1.4%	54%	46%
Don't routinely do diagnostic testing in patients with chronic urticaria.	263	0.0%	0.19	263	0.19	\$250,814.26	\$953.67	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,264	0.3%	2.30	1,444	1.02	\$3,326,770.72	\$2,303.86	2.0%	56%	44%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	11	0.0%	0.01	11	0.01	\$16,560.18	\$1,505.47	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	273	0.0%	0.19	264	0.19	\$562,040.13	\$2,128.94	0.3%	3%	97%
Don't perform computed tomography scans on children being treated for headache.	821	0.1%	0.58	354	0.25	\$301,048.67	\$850.42	0.2%	57%	43%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	16	0.0%	0.01	16	0.01	\$25,736.78	\$1,608.55	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,789	0.5%	4.08	3,115	2.20	\$4,854,032.19	\$1,558.28	2.9%	46%	54%
<b>Disease Approach</b>	<b>10,060</b>	<b>0.8%</b>	<b>7.09</b>	<b>8,380</b>	<b>5.91</b>	<b>\$5,382,884.00</b>	<b>\$642.35</b>	<b>3.2%</b>	<b>17%</b>	<b>83%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	122	0.0%	0.09	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	207	0.0%	0.15	207	0.15	\$456,753.31	\$2,206.54	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	646	0.1%	0.46	646	0.46	\$210,132.83	\$325.28	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	9,085	0.7%	6.40	7,527	5.31	\$4,715,998.18	\$626.54	2.8%	17%	83%
<b>Preoperative evaluation</b>	<b>135,337</b>	<b>10.7%</b>	<b>95.40</b>	<b>113,455</b>	<b>79.98</b>	<b>\$33,639,416.00</b>	<b>\$296.50</b>	<b>19.8%</b>	<b>16%</b>	<b>84%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	242	0.0%	0.17	242	0.17	\$138,010.34	\$570.29	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	125,439	9.9%	88.42	103,637	73.06	\$30,167,140.22	\$291.08	17.8%	17%	83%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	9,656	0.8%	6.81	9,576	6.75	\$3,334,265.08	\$348.19	2.0%	1%	99%
<b>Routine FU/Monitoring</b>	<b>14,394</b>	<b>1.1%</b>	<b>10.15</b>	<b>2,583</b>	<b>1.82</b>	<b>\$3,131,613.00</b>	<b>\$1,212.39</b>	<b>1.8%</b>	<b>82%</b>	<b>18%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	7,240	0.6%	5.10	234	0.16	\$328,917.77	\$1,405.63	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	171	0.0%	0.12	159	0.11	\$113,983.28	\$716.88	0.1%	7%	93%
Don't perform routine annual stress testing after coronary artery revascularization.	1,600	0.1%	1.13	388	0.27	\$423,231.52	\$1,090.80	0.2%	76%	24%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,383	0.4%	3.79	1,802	1.27	\$2,265,480.05	\$1,257.20	1.3%	67%	33%
<b>Screening Tests</b>	<b>955,499</b>	<b>75.5%</b>	<b>673.54</b>	<b>311,234</b>	<b>219.39</b>	<b>\$71,211,427.00</b>	<b>\$228.80</b>	<b>41.9%</b>	<b>67%</b>	<b>33%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	18,912	1.5%	13.33	307	0.22	\$156,251.72	\$508.96	0.1%	98%	2%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	586,625	46.4%	413.52	63,912	45.05	\$23,151,806.30	\$362.25	13.6%	89%	11%
Don't perform Pap smears on women with previous hysterectomy	975	0.1%	0.69	358	0.25	\$80,126.33	\$223.82	0.0%	63%	37%
Don't perform Pap smears on women younger than 21	1,529	0.1%	1.08	1,340	0.94	\$271,465.42	\$202.59	0.2%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	83,051	6.6%	58.54	83,051	58.54	\$10,862,350.06	\$130.79	6.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	82,158	6.5%	57.91	68,378	48.20	\$15,290,362.06	\$223.62	9.0%	17%	83%
Don't perform routine general health checks for asymptomatic adults	34,984	2.8%	24.66	34,984	24.66	\$7,410,987.28	\$211.84	4.4%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	6,567	0.5%	4.63	6,567	4.63	\$621,246.32	\$94.60	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	18,836	1.5%	13.28	4,317	3.04	\$1,059,034.28	\$245.32	0.6%	77%	23%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	37,900	3.0%	26.72	9,906	6.98	\$2,715,823.55	\$274.16	1.6%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	83,962	6.6%	59.19	38,114	26.87	\$9,591,974.16	\$251.67	5.6%	55%	45%
<b>Grand Total</b>	<b>1,265,471</b>	<b>100.0%</b>	<b>892.05</b>	<b>527,562</b>	<b>371.88</b>	<b>\$169,795,237.32</b>	<b>\$321.85</b>	<b>100.0%</b>	<b>58%</b>	<b>42%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful





## 2013 Northern Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>49,543</b>	<b>7.0%</b>	<b>52.37</b>	<b>47,934</b>	<b>50.67</b>	<b>\$8,730,973.00</b>	<b>\$182.15</b>	<b>7.6%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	47,042	6.6%	49.73	45,536	48.14	\$8,533,731.60	\$187.41	7.4%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	50	0.0%	0.05	46	0.05	\$4,401.35	\$95.68	0.0%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,414	0.2%	1.49	1,315	1.39	\$190,167.87	\$144.61	0.2%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$710.20	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	1,037	0.1%	1.10	1,037	1.10	\$1,961.76	\$1.89	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>38,978</b>	<b>5.5%</b>	<b>41.21</b>	<b>18,672</b>	<b>19.74</b>	<b>\$21,901,915.00</b>	<b>\$1,172.98</b>	<b>19.0%</b>	<b>52%</b>	<b>48%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	7,290	1.0%	7.71	6,843	7.23	\$3,106,084.59	\$453.91	2.7%	6%	94%
Don't do imaging for uncomplicated headache.	5,215	0.7%	5.51	2,841	3.00	\$3,396,558.10	\$1,195.55	2.9%	46%	54%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	302	0.0%	0.32	301	0.32	\$560,943.88	\$1,863.60	0.5%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	166	0.0%	0.18	115	0.12	\$263,942.14	\$2,295.15	0.2%	31%	69%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	14	0.0%	0.01	14	0.01	\$383.61	\$27.40	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$43.63	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	697	0.1%	0.74	462	0.49	\$488,803.32	\$1,058.02	0.4%	34%	66%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	575	0.1%	0.61	293	0.31	\$483,143.87	\$1,648.96	0.4%	49%	51%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	14,362	2.0%	15.18	2,582	2.73	\$7,235,508.27	\$2,802.29	6.3%	82%	18%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	5,903	0.8%	6.24	2,701	2.86	\$1,619,819.21	\$599.71	1.4%	54%	46%
Don't routinely do diagnostic testing in patients with chronic urticaria.	199	0.0%	0.21	199	0.21	\$197,076.75	\$990.34	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	1,894	0.3%	2.00	769	0.81	\$1,177,420.83	\$1,531.11	1.0%	59%	41%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$3,402.30	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	171	0.0%	0.18	171	0.18	\$439,881.49	\$2,572.41	0.4%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	510	0.1%	0.54	207	0.22	\$229,507.49	\$1,108.73	0.2%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$17,592.46	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,680	0.2%	1.78	1,174	1.24	\$2,681,802.96	\$2,284.33	2.3%	30%	70%
<b>Disease Approach</b>	<b>7,306</b>	<b>1.0%</b>	<b>7.72</b>	<b>6,512</b>	<b>6.88</b>	<b>\$4,912,312.00</b>	<b>\$754.35</b>	<b>4.3%</b>	<b>11%</b>	<b>89%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	87	0.0%	0.09	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	156	0.0%	0.16	156	0.16	\$400,487.36	\$2,567.23	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	475	0.1%	0.50	475	0.50	\$159,542.74	\$335.88	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	6,588	0.9%	6.96	5,881	6.22	\$4,352,281.84	\$740.06	3.8%	11%	89%
<b>Preoperative evaluation</b>	<b>62,942</b>	<b>8.8%</b>	<b>66.54</b>	<b>55,349</b>	<b>58.51</b>	<b>\$17,267,378.00</b>	<b>\$311.97</b>	<b>15.0%</b>	<b>12%</b>	<b>88%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	184	0.0%	0.19	184	0.19	\$115,550.90	\$627.99	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	56,299	7.9%	59.52	48,706	51.49	\$14,929,453.81	\$306.52	12.9%	13%	87%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	6,459	0.9%	6.83	6,459	6.83	\$2,222,373.74	\$344.07	1.9%	0%	100%
<b>Routine FU/Monitoring</b>	<b>2,822</b>	<b>0.4%</b>	<b>2.98</b>	<b>825</b>	<b>0.87</b>	<b>\$995,380.00</b>	<b>\$1,206.52</b>	<b>0.9%</b>	<b>71%</b>	<b>29%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,075	0.2%	1.14	86	0.09	\$185,864.72	\$2,161.22	0.2%	92%	8%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	61	0.0%	0.06	61	0.06	\$60,204.55	\$986.96	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	406	0.1%	0.43	141	0.15	\$101,896.44	\$722.67	0.1%	65%	35%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,280	0.2%	1.35	537	0.57	\$647,414.05	\$1,205.61	0.6%	58%	42%
<b>Screening Tests</b>	<b>549,905</b>	<b>77.3%</b>	<b>581.32</b>	<b>269,635</b>	<b>285.04</b>	<b>\$61,582,933.00</b>	<b>\$228.39</b>	<b>53.4%</b>	<b>51%</b>	<b>49%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	8,390	1.2%	8.87	275	0.29	\$136,207.28	\$495.30	0.1%	97%	3%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	281,311	39.5%	297.38	60,403	63.85	\$19,288,083.69	\$319.32	16.7%	79%	21%
Don't perform Pap smears on women with previous hysterectomy	552	0.1%	0.58	330	0.35	\$76,105.83	\$230.62	0.1%	40%	60%
Don't perform Pap smears on women younger than 21	1,191	0.2%	1.26	1,043	1.10	\$247,422.47	\$237.22	0.2%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	71,002	10.0%	75.06	71,002	75.06	\$10,039,893.01	\$141.40	8.7%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	79,003	11.1%	83.52	65,657	69.41	\$15,068,784.81	\$229.51	13.1%	17%	83%
Don't perform routine general health checks for asymptomatic adults	34,301	4.8%	36.26	34,301	36.26	\$7,316,410.92	\$213.30	6.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	864	0.1%	0.91	864	0.91	\$99,611.21	\$115.29	0.1%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	9,146	1.3%	9.67	3,033	3.21	\$797,085.48	\$262.80	0.7%	67%	33%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	23,573	3.3%	24.92	4,034	4.26	\$901,554.63	\$223.49	0.8%	83%	17%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	40,572	5.7%	42.89	28,693	30.33	\$7,611,773.66	\$265.28	6.6%	29%	71%
<b>Grand Total</b>	<b>711,518</b>	<b>100.0%</b>	<b>752.17</b>	<b>398,949</b>	<b>421.74</b>	<b>\$115,390,890.82</b>	<b>\$289.24</b>	<b>100.0%</b>	<b>44%</b>	<b>56%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Northern Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>12,679</b>	<b>21.2%</b>	<b>56.90</b>	<b>11,977</b>	<b>53.75</b>	<b>\$225,613.00</b>	<b>\$18.84</b>	<b>2.3%</b>	<b>6%</b>	<b>94%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	5,430	9.1%	24.37	4,757	21.35	\$171,991.61	\$36.16	1.7%	12%	88%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	60	0.1%	0.27	54	0.24	\$752.31	\$13.93	0.0%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	183	0.3%	0.82	160	0.72	\$6,726.15	\$42.04	0.1%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	7,006	11.7%	31.44	7,006	31.44	\$46,142.94	\$6.59	0.5%	0%	100%
<b>Diagnostic Testing</b>	<b>6,466</b>	<b>10.8%</b>	<b>29.02</b>	<b>2,306</b>	<b>10.35</b>	<b>\$6,726,748.00</b>	<b>\$2,917.06</b>	<b>67.6%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	353	0.6%	1.58	301	1.35	\$220,220.04	\$731.63	2.2%	15%	85%
Don't do imaging for uncomplicated headache.	983	1.6%	4.41	379	1.70	\$227,269.17	\$599.65	2.3%	61%	39%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	73	0.1%	0.33	67	0.30	\$60,628.24	\$904.90	0.6%	8%	92%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	42	0.1%	0.19	20	0.09	\$54,290.45	\$2,714.52	0.5%	52%	48%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	176	0.3%	0.79	81	0.36	\$109,742.74	\$1,354.85	1.1%	54%	46%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	90	0.2%	0.40	24	0.11	\$26,543.47	\$1,105.98	0.3%	73%	27%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	2,798	4.7%	12.56	555	2.49	\$4,914,396.13	\$8,854.77	49.4%	80%	20%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	711	1.2%	3.19	108	0.48	\$86,418.91	\$800.18	0.9%	85%	15%
Don't routinely do diagnostic testing in patients with chronic urticaria.	16	0.0%	0.07	16	0.07	\$23,361.41	\$1,460.09	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	202	0.3%	0.91	121	0.54	\$363,079.80	\$3,000.66	3.6%	40%	60%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	74	0.1%	0.33	74	0.33	\$94,815.04	\$1,281.28	1.0%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	311	0.5%	1.40	147	0.66	\$71,541.18	\$486.67	0.7%	53%	47%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$8,144.32	*	0.1%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	637	1.1%	2.86	413	1.85	\$466,297.40	\$1,129.05	4.7%	35%	65%
<b>Disease Approach</b>	<b>2,084</b>	<b>3.5%</b>	<b>9.35</b>	<b>1,226</b>	<b>5.50</b>	<b>\$325,853.00</b>	<b>\$265.79</b>	<b>3.3%</b>	<b>41%</b>	<b>59%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	34	0.1%	0.15	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$3,272.49	*	0.0%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	155	0.3%	0.70	155	0.70	\$45,328.75	\$292.44	0.5%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,895	3.2%	8.50	1,071	4.81	\$277,251.96	\$258.87	2.8%	43%	57%
<b>Preoperative evaluation</b>	<b>3,592</b>	<b>6.0%</b>	<b>16.12</b>	<b>3,139</b>	<b>14.09</b>	<b>\$594,963.00</b>	<b>\$189.54</b>	<b>6.0%</b>	<b>13%</b>	<b>87%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	26	0.0%	0.12	26	0.12	\$10,735.47	\$412.90	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	3,295	5.5%	14.79	2,842	12.75	\$492,699.12	\$173.36	5.0%	14%	86%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	271	0.5%	1.22	271	1.22	\$91,527.99	\$337.74	0.9%	0%	100%
<b>Routine FU/Monitoring</b>	<b>410</b>	<b>0.7%</b>	<b>1.84</b>	<b>52</b>	<b>0.23</b>	<b>\$56,892.00</b>	<b>\$1,094.07</b>	<b>0.6%</b>	<b>87%</b>	<b>13%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	175	0.3%	0.79	*	*	\$200.13	*	0.0%	99%	1%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$344.43	*	0.0%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	70	0.1%	0.31	11	0.05	\$11,803.97	\$1,073.09	0.1%	84%	16%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	165	0.3%	0.74	41	0.18	\$44,543.23	\$1,086.42	0.4%	75%	25%
<b>Screening Tests</b>	<b>34,560</b>	<b>57.8%</b>	<b>155.09</b>	<b>10,975</b>	<b>49.25</b>	<b>\$2,019,003.00</b>	<b>\$183.96</b>	<b>20.3%</b>	<b>68%</b>	<b>32%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	781	1.3%	3.50	*	*	\$8,037.73	*	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	23,304	39.0%	104.58	1,689	7.58	\$1,524,361.78	\$902.52	15.3%	93%	7%
Don't perform Pap smears on women with previous hysterectomy	14	0.0%	0.06	12	0.05	\$1,666.01	\$138.83	0.0%	14%	86%
Don't perform Pap smears on women younger than 21	337	0.6%	1.51	296	1.33	\$23,850.38	\$80.58	0.2%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	5,141	8.6%	23.07	5,141	23.07	\$120,839.37	\$23.51	1.2%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	3,075	5.1%	13.80	2,649	11.89	\$203,319.78	\$76.75	2.0%	14%	86%
Don't perform routine general health checks for asymptomatic adults	638	1.1%	2.86	638	2.86	\$90,790.06	\$142.30	0.9%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	40	0.1%	0.18	40	0.18	\$1,731.71	\$43.29	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	245	0.4%	1.10	54	0.24	\$3,810.49	\$70.56	0.0%	78%	22%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	271	0.5%	1.22	46	0.21	\$16,108.57	\$350.19	0.2%	83%	17%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	714	1.2%	3.20	410	1.84	\$24,487.23	\$59.72	0.2%	43%	57%
<b>Grand Total</b>	<b>59,802</b>	<b>100.0%</b>	<b>268.37</b>	<b>29,693</b>	<b>133.25</b>	<b>\$9,949,071.96</b>	<b>\$335.06</b>	<b>100.0%</b>	<b>50%</b>	<b>50%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 Northwest Region Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>35,465</b>	<b>4.7%</b>	<b>45.66</b>	<b>34,164</b>	<b>43.99</b>	<b>\$4,600,979.00</b>	<b>\$134.67</b>	<b>4.4%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	29,662	3.9%	38.19	28,471	36.66	\$4,458,327.74	\$156.59	4.3%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	41	0.0%	0.05	40	0.05	\$2,660.49	\$66.51	0.0%	2%	98%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	931	0.1%	1.20	822	1.06	\$103,907.07	\$126.41	0.1%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	35	0.0%	0.05	35	0.05	\$1,816.23	\$51.89	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	4,796	0.6%	6.17	4,796	6.17	\$34,267.52	\$7.15	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>66,642</b>	<b>8.8%</b>	<b>85.80</b>	<b>19,029</b>	<b>24.50</b>	<b>\$33,628,686.00</b>	<b>\$1,767.23</b>	<b>32.1%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	6,865	0.9%	8.84	5,897	7.59	\$2,449,646.09	\$415.41	2.3%	14%	86%
Don't do imaging for uncomplicated headache.	4,815	0.6%	6.20	1,545	1.99	\$1,777,283.92	\$1,150.35	1.7%	68%	32%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	399	0.1%	0.51	386	0.50	\$596,115.22	\$1,544.34	0.6%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	835	0.1%	1.08	285	0.37	\$1,142,339.53	\$4,008.21	1.1%	66%	34%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$343.04	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$113.94	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	602	0.1%	0.78	342	0.44	\$444,960.94	\$1,301.06	0.4%	43%	57%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,451	0.2%	1.87	544	0.70	\$915,781.42	\$1,683.42	0.9%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	41,111	5.4%	52.93	4,491	5.78	\$17,043,330.09	\$3,795.00	16.3%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,125	0.4%	4.02	1,613	2.08	\$1,326,474.06	\$822.36	1.3%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	126	0.0%	0.16	126	0.16	\$150,998.69	\$1,198.40	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,103	0.3%	2.71	1,064	1.37	\$3,626,986.07	\$3,408.82	3.5%	49%	51%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,394.48	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	335	0.0%	0.43	310	0.40	\$508,343.46	\$1,639.82	0.5%	7%	93%
Don't perform computed tomography scans on children being treated for headache.	636	0.1%	0.82	258	0.33	\$187,483.15	\$726.68	0.2%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$15,865.56	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	4,239	0.6%	5.46	2,168	2.79	\$3,437,226.74	\$1,585.44	3.3%	49%	51%
<b>Disease Approach</b>	<b>7,082</b>	<b>0.9%</b>	<b>9.12</b>	<b>5,637</b>	<b>7.26</b>	<b>\$3,120,576.00</b>	<b>\$553.59</b>	<b>3.0%</b>	<b>20%</b>	<b>80%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	52	0.0%	0.07	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	89	0.0%	0.11	89	0.11	\$192,643.34	\$2,164.53	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	623	0.1%	0.80	623	0.80	\$129,300.87	\$207.55	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	6,318	0.8%	8.13	4,925	6.34	\$2,798,631.62	\$568.25	2.7%	22%	78%
<b>Preoperative evaluation</b>	<b>98,797</b>	<b>13.0%</b>	<b>127.20</b>	<b>79,831</b>	<b>102.78</b>	<b>\$37,541,531.00</b>	<b>\$470.26</b>	<b>35.9%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	61	0.0%	0.08	61	0.08	\$39,296.25	\$644.20	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	93,600	12.3%	120.51	74,691	96.17	\$34,918,808.77	\$467.51	33.4%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	5,136	0.7%	6.61	5,079	6.54	\$2,583,425.81	\$508.65	2.5%	1%	99%
<b>Routine FU/Monitoring</b>	<b>13,361</b>	<b>1.8%</b>	<b>17.20</b>	<b>1,867</b>	<b>2.40</b>	<b>\$2,953,411.00</b>	<b>\$1,581.90</b>	<b>2.8%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,668	0.9%	8.59	172	0.22	\$491,959.64	\$2,860.23	0.5%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	160	0.0%	0.21	146	0.19	\$124,919.57	\$855.61	0.1%	9%	91%
Don't perform routine annual stress testing after coronary artery revascularization.	1,475	0.2%	1.90	228	0.29	\$232,224.39	\$1,018.53	0.2%	85%	15%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,058	0.7%	6.51	1,321	1.70	\$2,104,306.92	\$1,592.97	2.0%	74%	26%
<b>Screening Tests</b>	<b>539,109</b>	<b>70.9%</b>	<b>694.12</b>	<b>94,718</b>	<b>121.95</b>	<b>\$22,849,319.00</b>	<b>\$241.24</b>	<b>21.8%</b>	<b>82%</b>	<b>18%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	13,608	1.8%	17.52	70	0.09	\$106,852.08	\$1,526.46	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	385,153	50.6%	495.90	14,060	18.10	\$6,333,190.01	\$450.44	6.0%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	447	0.1%	0.58	140	0.18	\$28,497.57	\$203.55	0.0%	69%	31%
Don't perform Pap smears on women younger than 21	730	0.1%	0.94	643	0.83	\$138,017.74	\$214.65	0.1%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	20,052	2.6%	25.82	20,052	25.82	\$3,175,213.96	\$158.35	3.0%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	27,011	3.6%	34.78	21,299	27.42	\$4,480,344.42	\$210.35	4.3%	21%	79%
Don't perform routine general health checks for asymptomatic adults	8,092	1.1%	10.42	8,092	10.42	\$1,375,654.91	\$170.00	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,041	0.7%	6.49	5,041	6.49	\$555,631.46	\$110.22	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	10,228	1.3%	13.17	1,610	2.07	\$421,456.66	\$261.77	0.4%	84%	16%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	18,532	2.4%	23.86	4,512	5.81	\$1,775,910.62	\$393.60	1.7%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	50,215	6.6%	64.65	19,199	24.72	\$4,458,549.16	\$232.23	4.3%	62%	38%
<b>Grand Total</b>	<b>760,474</b>	<b>100.0%</b>	<b>979.13</b>	<b>235,264</b>	<b>302.91</b>	<b>\$104,694,501.22</b>	<b>\$445.01</b>	<b>100.0%</b>	<b>69%</b>	<b>31%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 Northwest Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>22,545</b>	<b>8.3%</b>	<b>60.94</b>	<b>21,956</b>	<b>59.35</b>	<b>\$4,111,089.00</b>	<b>\$187.24</b>	<b>8.7%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	21,644	7.9%	58.51	21,108	57.06	\$4,025,384.16	\$190.70	8.6%	2%	98%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	21	0.0%	0.06	20	0.05	\$1,788.86	\$89.44	0.0%	5%	95%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	556	0.2%	1.50	504	1.36	\$80,241.54	\$159.21	0.2%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$890.40	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	324	0.1%	0.88	324	0.88	\$2,784.27	\$8.59	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>20,212</b>	<b>7.4%</b>	<b>54.64</b>	<b>7,832</b>	<b>21.17</b>	<b>\$11,885,316.00</b>	<b>\$1,517.53</b>	<b>25.3%</b>	<b>61%</b>	<b>39%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	3,400	1.2%	9.19	3,128	8.46	\$1,327,588.08	\$424.42	2.8%	8%	92%
Don't do imaging for uncomplicated headache.	1,969	0.7%	5.32	874	2.36	\$1,280,667.54	\$1,465.29	2.7%	56%	44%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	128	0.0%	0.35	124	0.34	\$255,648.98	\$2,061.69	0.5%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	114	0.0%	0.31	61	0.16	\$296,594.18	\$4,862.20	0.6%	46%	54%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$343.04	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$113.94	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	200	0.1%	0.54	111	0.30	\$127,606.06	\$1,149.60	0.3%	45%	56%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	345	0.1%	0.93	126	0.34	\$211,693.10	\$1,680.10	0.5%	63%	37%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	10,336	3.8%	27.94	1,330	3.60	\$4,711,049.41	\$3,542.14	10.0%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,493	0.5%	4.04	804	2.17	\$619,272.24	\$770.24	1.3%	46%	54%
Don't routinely do diagnostic testing in patients with chronic urticaria.	67	0.0%	0.18	67	0.18	\$72,290.26	\$1,078.96	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	802	0.3%	2.17	362	0.98	\$1,086,445.97	\$3,001.23	2.3%	55%	45%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	117	0.0%	0.32	117	0.32	\$300,632.05	\$2,569.50	0.6%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	226	0.1%	0.61	82	0.22	\$109,362.94	\$1,333.69	0.2%	64%	36%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$6,684.55	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,015	0.4%	2.74	646	1.75	\$1,479,323.38	\$2,289.97	3.1%	36%	64%
<b>Disease Approach</b>	<b>3,709</b>	<b>1.4%</b>	<b>10.03</b>	<b>3,352</b>	<b>9.06</b>	<b>\$2,419,824.00</b>	<b>\$721.90</b>	<b>5.1%</b>	<b>10%</b>	<b>90%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	22	0.0%	0.06	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	46	0.0%	0.12	46	0.12	\$130,819.82	\$2,843.91	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	232	0.1%	0.63	232	0.63	\$49,448.93	\$213.14	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	3,409	1.3%	9.22	3,074	8.31	\$2,239,555.26	\$728.55	4.8%	10%	90%
<b>Preoperative evaluation</b>	<b>30,611</b>	<b>11.2%</b>	<b>82.75</b>	<b>24,992</b>	<b>67.56</b>	<b>\$12,140,043.00</b>	<b>\$485.76</b>	<b>25.8%</b>	<b>18%</b>	<b>82%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	33	0.0%	0.09	33	0.09	\$15,556.13	\$471.40	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	28,108	10.3%	75.98	22,489	60.79	\$11,070,753.06	\$492.27	23.6%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	2,470	0.9%	6.68	2,470	6.68	\$1,053,733.71	\$426.61	2.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>2,475</b>	<b>0.9%</b>	<b>6.69</b>	<b>464</b>	<b>1.25</b>	<b>\$541,271.00</b>	<b>\$1,166.53</b>	<b>1.2%</b>	<b>81%</b>	<b>19%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	991	0.4%	2.68	52	0.14	\$77,937.53	\$1,498.80	0.2%	95%	5%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	45	0.0%	0.12	45	0.12	\$42,267.29	\$939.27	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	230	0.1%	0.62	51	0.14	\$32,379.71	\$634.90	0.1%	78%	22%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,209	0.4%	3.27	316	0.85	\$388,686.45	\$1,230.02	0.8%	74%	26%
<b>Screening Tests</b>	<b>192,792</b>	<b>70.8%</b>	<b>521.16</b>	<b>65,141</b>	<b>176.09</b>	<b>\$15,907,568.00</b>	<b>\$244.20</b>	<b>33.8%</b>	<b>66%</b>	<b>34%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	4,506	1.7%	12.18	43	0.12	\$25,100.67	\$583.74	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	113,035	41.5%	305.56	11,716	31.67	\$4,472,954.34	\$381.78	9.5%	90%	10%
Don't perform Pap smears on women with previous hysterectomy	212	0.1%	0.57	106	0.29	\$23,205.44	\$218.92	0.0%	50%	50%
Don't perform Pap smears on women younger than 21	587	0.2%	1.59	514	1.39	\$125,438.22	\$244.04	0.3%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	13,463	4.9%	36.39	13,463	36.39	\$2,359,498.24	\$175.26	5.0%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	22,540	8.3%	60.93	17,923	48.45	\$4,170,242.24	\$232.68	8.9%	20%	80%
Don't perform routine general health checks for asymptomatic adults	7,700	2.8%	20.81	7,700	20.81	\$1,325,145.72	\$172.10	2.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	609	0.2%	1.65	609	1.65	\$91,073.96	\$149.55	0.2%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	3,281	1.2%	8.87	786	2.12	\$229,742.62	\$292.29	0.5%	76%	24%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	8,836	3.2%	23.89	1,069	2.89	\$297,383.39	\$278.19	0.6%	88%	12%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	18,023	6.6%	48.72	11,212	30.31	\$2,787,783.34	\$248.64	5.9%	38%	62%
<b>Grand Total</b>	<b>272,364</b>	<b>100.0%</b>	<b>736.26</b>	<b>123,757</b>	<b>334.54</b>	<b>\$47,005,111.02</b>	<b>\$379.82</b>	<b>100.0%</b>	<b>55%</b>	<b>45%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2013 Northwest Region Wasteful Services- Medicaid

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>12,706</b>	<b>19.9%</b>	<b>66.61</b>	<b>12,003</b>	<b>62.92</b>	<b>\$469,577.00</b>	<b>\$39.12</b>	<b>5.4%</b>	<b>6%</b>	<b>94%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	7,819	12.2%	40.99	7,172	37.60	\$413,240.57	\$57.62	4.8%	8%	92%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	20	0.0%	0.10	20	0.10	\$871.63	\$43.58	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	370	0.6%	1.94	314	1.65	\$23,055.81	\$73.43	0.3%	15%	85%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	25	0.0%	0.13	25	0.13	\$925.83	\$37.03	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	4,472	7.0%	23.44	4,472	23.44	\$31,483.25	\$7.04	0.4%	0%	100%
<b>Diagnostic Testing</b>	<b>7,098</b>	<b>11.1%</b>	<b>37.21</b>	<b>2,445</b>	<b>12.82</b>	<b>\$4,868,303.00</b>	<b>\$1,991.13</b>	<b>56.3%</b>	<b>66%</b>	<b>34%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	475	0.7%	2.49	441	2.31	\$223,837.84	\$507.57	2.6%	7%	93%
Don't do imaging for uncomplicated headache.	1,089	1.7%	5.71	460	2.41	\$274,468.31	\$596.67	3.2%	58%	42%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	50	0.1%	0.26	50	0.26	\$46,314.80	\$926.30	0.5%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	84	0.1%	0.44	38	0.20	\$92,744.63	\$2,440.65	1.1%	55%	45%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	172	0.3%	0.90	95	0.50	\$117,585.69	\$1,237.74	1.4%	45%	55%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	87	0.1%	0.46	35	0.18	\$48,806.65	\$1,394.48	0.6%	60%	40%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,198	5.0%	16.76	441	2.31	\$3,237,294.12	\$7,340.80	37.4%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	584	0.9%	3.06	104	0.55	\$84,183.13	\$809.45	1.0%	82%	18%
Don't routinely do diagnostic testing in patients with chronic urticaria.	19	0.0%	0.10	19	0.10	\$6,312.04	\$332.21	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	296	0.5%	1.55	155	0.81	\$214,843.88	\$1,386.09	2.5%	48%	52%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	118	0.2%	0.62	118	0.62	\$108,233.12	\$917.23	1.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	410	0.6%	2.15	176	0.92	\$78,120.21	\$443.86	0.9%	57%	43%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$9,181.01	*	0.1%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	516	0.8%	2.70	313	1.64	\$325,920.96	\$1,041.28	3.8%	39%	61%
<b>Disease Approach</b>	<b>3,139</b>	<b>4.9%</b>	<b>16.46</b>	<b>2,065</b>	<b>10.83</b>	<b>\$563,735.00</b>	<b>\$273.00</b>	<b>6.5%</b>	<b>34%</b>	<b>66%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	30	0.0%	0.16	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	12	0.0%	0.06	12	0.06	\$17,021.26	\$1,418.44	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	385	0.6%	2.02	385	2.02	\$79,031.95	\$205.28	0.9%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	2,712	4.2%	14.22	1,668	8.74	\$467,682.08	\$280.38	5.4%	38%	62%
<b>Preoperative evaluation</b>	<b>5,762</b>	<b>9.0%</b>	<b>30.21</b>	<b>4,918</b>	<b>25.78</b>	<b>\$1,198,034.00</b>	<b>\$243.60</b>	<b>13.9%</b>	<b>15%</b>	<b>85%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	15	0.0%	0.08	15	0.08	\$13,404.43	\$893.63	0.2%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	5,284	8.3%	27.70	4,440	23.28	\$1,080,950.24	\$243.46	12.5%	16%	84%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	463	0.7%	2.43	463	2.43	\$103,678.98	\$223.93	1.2%	0%	100%
<b>Routine FU/Monitoring</b>	<b>497</b>	<b>0.8%</b>	<b>2.61</b>	<b>36</b>	<b>0.19</b>	<b>\$48,295.00</b>	<b>\$1,341.54</b>	<b>0.6%</b>	<b>93%</b>	<b>7%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	234	0.4%	1.23	*	*	\$1,726.13	*	0.0%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	*	*	*	*	*	\$12,133.21	*	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	78	0.1%	0.41	*	*	\$3,718.49	*	0.0%	91%	9%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	185	0.3%	0.97	36	0.19	\$30,717.45	\$853.26	0.4%	81%	19%
<b>Screening Tests</b>	<b>34,629</b>	<b>54.2%</b>	<b>181.53</b>	<b>7,231</b>	<b>37.91</b>	<b>\$1,501,663.00</b>	<b>\$207.67</b>	<b>17.4%</b>	<b>79%</b>	<b>21%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	868	1.4%	4.55	12	0.06	\$68,947.67	\$5,745.64	0.8%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	26,013	40.7%	136.37	1,207	6.33	\$934,757.25	\$774.45	10.8%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	17	0.0%	0.09	*	*	\$1,300.22	*	0.0%	53%	47%
Don't perform Pap smears on women younger than 21	139	0.2%	0.73	126	0.66	\$12,113.94	\$96.14	0.1%	9%	91%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,808	2.8%	9.48	1,808	9.48	\$77,814.43	\$43.04	0.9%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	4,452	7.0%	23.34	3,362	17.62	\$307,228.17	\$91.38	3.6%	24%	76%
Don't perform routine general health checks for asymptomatic adults	331	0.5%	1.74	331	1.74	\$45,649.53	\$137.91	0.5%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	12	0.0%	0.06	12	0.06	\$630.67	\$52.56	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	194	0.3%	1.02	37	0.19	\$4,002.37	\$108.17	0.0%	81%	19%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	362	0.6%	1.90	49	0.26	\$8,255.09	\$168.47	0.1%	86%	14%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	433	0.7%	2.27	287	1.50	\$40,963.57	\$142.73	0.5%	34%	66%
<b>Grand Total</b>	<b>63,840</b>	<b>100.0%</b>	<b>334.66</b>	<b>28,727</b>	<b>150.59</b>	<b>\$8,649,150.61</b>	<b>\$301.08</b>	<b>100.0%</b>	<b>55%</b>	<b>45%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 Southwest Region Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>57,347</b>	<b>5.7%</b>	<b>62.21</b>	<b>55,302</b>	<b>59.99</b>	<b>\$4,872,363.00</b>	<b>\$88.10</b>	<b>4.2%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	41,049	4.1%	44.53	39,146	42.46	\$4,637,271.02	\$118.46	4.0%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	22	0.0%	0.02	21	0.02	\$1,323.00	\$63.00	0.0%	5%	95%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,153	0.1%	1.25	1,012	1.10	\$139,598.03	\$137.94	0.1%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	32	0.0%	0.03	32	0.03	\$2,247.12	\$70.22	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	15,091	1.5%	16.37	15,091	16.37	\$91,923.82	\$6.09	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>85,755</b>	<b>8.5%</b>	<b>93.02</b>	<b>24,656</b>	<b>26.75</b>	<b>\$38,820,676.00</b>	<b>\$1,574.49</b>	<b>33.4%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	9,011	0.9%	9.77	7,710	8.36	\$2,798,488.94	\$362.97	2.4%	14%	86%
Don't do imaging for uncomplicated headache.	6,036	0.6%	6.55	1,903	2.06	\$1,633,243.76	\$858.25	1.4%	68%	32%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	627	0.1%	0.68	586	0.64	\$616,740.63	\$1,052.46	0.5%	7%	93%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,112	0.1%	1.21	408	0.44	\$1,475,247.05	\$3,615.80	1.3%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	13	0.0%	0.01	13	0.01	\$318.48	\$24.50	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	683	0.1%	0.74	399	0.43	\$314,923.54	\$789.28	0.3%	42%	58%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,999	0.2%	2.17	810	0.88	\$965,125.43	\$1,191.51	0.8%	59%	41%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	52,611	5.2%	57.07	5,535	6.00	\$21,609,661.53	\$3,904.18	18.6%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,775	0.4%	4.10	1,893	2.05	\$1,136,216.56	\$600.22	1.0%	50%	50%
Don't routinely do diagnostic testing in patients with chronic urticaria.	107	0.0%	0.12	107	0.12	\$96,260.22	\$899.63	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,290	0.3%	3.57	1,744	1.89	\$3,685,731.81	\$2,113.38	3.2%	47%	53%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	16	0.0%	0.02	16	0.02	\$7,952.22	\$497.01	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	573	0.1%	0.62	539	0.58	\$721,067.80	\$1,337.79	0.6%	6%	94%
Don't perform computed tomography scans on children being treated for headache.	678	0.1%	0.74	284	0.31	\$145,518.39	\$512.39	0.1%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$7,038.72	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,224	0.5%	5.67	2,709	2.94	\$3,607,141.06	\$1,331.54	3.1%	48%	52%
<b>Disease Approach</b>	<b>16,854</b>	<b>1.7%</b>	<b>18.28</b>	<b>12,576</b>	<b>13.64</b>	<b>\$3,967,854.00</b>	<b>\$315.51</b>	<b>3.4%</b>	<b>25%</b>	<b>75%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	41	0.0%	0.04	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	124	0.0%	0.13	124	0.13	\$244,153.47	\$1,968.98	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	1,336	0.1%	1.45	1,336	1.45	\$190,247.84	\$142.40	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	15,353	1.5%	16.65	11,116	12.06	\$3,533,452.52	\$317.87	3.0%	28%	72%
<b>Preoperative evaluation</b>	<b>129,985</b>	<b>12.9%</b>	<b>141.00</b>	<b>104,024</b>	<b>112.84</b>	<b>\$44,183,629.00</b>	<b>\$424.74</b>	<b>38.0%</b>	<b>20%</b>	<b>80%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	53	0.0%	0.06	53	0.06	\$19,615.33	\$370.10	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	123,308	12.2%	133.76	97,398	105.65	\$40,012,748.46	\$410.82	34.4%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	6,624	0.7%	7.19	6,573	7.13	\$4,151,264.94	\$631.56	3.6%	1%	99%
<b>Routine FU/Monitoring</b>	<b>15,881</b>	<b>1.6%</b>	<b>17.23</b>	<b>1,476</b>	<b>1.60</b>	<b>\$2,164,232.00</b>	<b>\$1,466.28</b>	<b>1.9%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	8,333	0.8%	9.04	172	0.19	\$154,543.14	\$898.51	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	161	0.0%	0.17	147	0.16	\$101,596.77	\$691.13	0.1%	9%	91%
Don't perform routine annual stress testing after coronary artery revascularization.	1,691	0.2%	1.83	181	0.20	\$235,272.27	\$1,299.85	0.2%	89%	11%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,696	0.6%	6.18	976	1.06	\$1,672,819.72	\$1,713.95	1.4%	83%	17%
<b>Screening Tests</b>	<b>702,178</b>	<b>69.7%</b>	<b>761.70</b>	<b>97,525</b>	<b>105.79</b>	<b>\$22,307,454.00</b>	<b>\$228.74</b>	<b>19.2%</b>	<b>86%</b>	<b>14%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	16,575	1.6%	17.98	76	0.08	\$70,468.61	\$927.22	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	517,372	51.3%	561.23	13,592	14.74	\$6,548,720.76	\$481.81	5.6%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	663	0.1%	0.72	188	0.20	\$33,309.50	\$177.18	0.0%	72%	28%
Don't perform Pap smears on women younger than 21	1,200	0.1%	1.30	995	1.08	\$153,315.96	\$154.09	0.1%	17%	83%
Don't perform population based screening for 25-OH-Vitamin D deficiency	15,188	1.5%	16.48	15,188	16.48	\$2,038,007.39	\$134.19	1.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	26,247	2.6%	28.47	19,252	20.88	\$3,318,655.18	\$172.38	2.9%	27%	73%
Don't perform routine general health checks for asymptomatic adults	8,481	0.8%	9.20	8,481	9.20	\$1,339,856.01	\$157.98	1.2%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	6,454	0.6%	7.00	6,454	7.00	\$679,776.11	\$105.33	0.6%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	19,248	1.9%	20.88	2,505	2.72	\$503,486.65	\$200.99	0.4%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	28,214	2.8%	30.61	7,398	8.03	\$2,701,205.53	\$365.13	2.3%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	62,536	6.2%	67.84	23,396	25.38	\$4,920,651.88	\$210.32	4.2%	63%	37%
<b>Grand Total</b>	<b>1,008,009</b>	<b>100.0%</b>	<b>1093.46</b>	<b>295,568</b>	<b>320.62</b>	<b>\$116,316,207.17</b>	<b>\$393.53</b>	<b>100.0%</b>	<b>71%</b>	<b>29%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 Southwest Region Wasteful Services- Commercial

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>21,928</b>	<b>8.3%</b>	<b>73.00</b>	<b>21,385</b>	<b>71.19</b>	<b>\$3,592,058.00</b>	<b>\$167.97</b>	<b>9.6%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	20,913	7.9%	69.62	20,417	67.97	\$3,492,497.22	\$171.06	9.4%	2%	98%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$715.09	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	475	0.2%	1.58	428	1.42	\$96,921.48	\$226.45	0.3%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$1,008.57	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	540	0.2%	1.80	540	1.80	\$916.10	\$1.70	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>19,629</b>	<b>7.5%</b>	<b>65.34</b>	<b>7,314</b>	<b>24.35</b>	<b>\$9,570,332.00</b>	<b>\$1,308.49</b>	<b>25.7%</b>	<b>63%</b>	<b>37%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	3,329	1.3%	11.08	3,002	9.99	\$1,028,911.66	\$342.74	2.8%	10%	90%
Don't do imaging for uncomplicated headache.	1,570	0.6%	5.23	632	2.10	\$889,524.62	\$1,407.48	2.4%	60%	40%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	131	0.0%	0.44	124	0.41	\$213,306.53	\$1,720.21	0.6%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	151	0.1%	0.50	76	0.25	\$234,270.27	\$3,082.50	0.6%	50%	50%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	11	0.0%	0.04	11	0.04	\$305.64	\$27.79	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	156	0.1%	0.52	94	0.31	\$94,697.68	\$1,007.42	0.3%	40%	60%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	330	0.1%	1.10	124	0.41	\$164,243.46	\$1,324.54	0.4%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	10,511	4.0%	34.99	1,312	4.37	\$4,324,698.66	\$3,296.26	11.6%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,377	0.5%	4.58	776	2.58	\$369,838.84	\$476.60	1.0%	44%	56%
Don't routinely do diagnostic testing in patients with chronic urticaria.	52	0.0%	0.17	52	0.17	\$53,271.63	\$1,024.45	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	821	0.3%	2.73	389	1.29	\$849,126.03	\$2,182.84	2.3%	53%	47%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$3,381.84	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	117	0.0%	0.39	117	0.39	\$264,765.45	\$2,262.95	0.7%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	154	0.1%	0.51	66	0.22	\$67,308.98	\$1,019.83	0.2%	57%	43%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	919	0.3%	3.06	539	1.79	\$1,012,680.72	\$1,878.81	2.7%	41%	59%
<b>Disease Approach</b>	<b>4,470</b>	<b>1.7%</b>	<b>14.88</b>	<b>4,096</b>	<b>13.64</b>	<b>\$1,775,537.00</b>	<b>\$433.48</b>	<b>4.8%</b>	<b>8%</b>	<b>92%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	13	0.0%	0.04	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	46	0.0%	0.15	46	0.15	\$130,680.65	\$2,840.88	0.4%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	303	0.1%	1.01	303	1.01	\$29,403.25	\$97.04	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	4,108	1.6%	13.68	3,747	12.47	\$1,615,452.81	\$431.13	4.3%	9%	91%
<b>Preoperative evaluation</b>	<b>30,542</b>	<b>11.6%</b>	<b>101.67</b>	<b>24,632</b>	<b>82.00</b>	<b>\$10,744,055.00</b>	<b>\$436.18</b>	<b>28.8%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	16	0.0%	0.05	16	0.05	\$7,446.09	\$465.38	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	28,367	10.8%	94.43	22,457	74.76	\$9,470,791.49	\$421.73	25.4%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	2,159	0.8%	7.19	2,159	7.19	\$1,265,817.00	\$586.30	3.4%	0%	100%
<b>Routine FU/Monitoring</b>	<b>2,608</b>	<b>1.0%</b>	<b>8.68</b>	<b>341</b>	<b>1.14</b>	<b>\$389,520.00</b>	<b>\$1,142.29</b>	<b>1.0%</b>	<b>87%</b>	<b>13%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,161	0.4%	3.86	40	0.13	\$27,257.01	\$681.43	0.1%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	38	0.0%	0.13	38	0.13	\$33,792.96	\$889.29	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	231	0.1%	0.77	48	0.16	\$29,188.29	\$608.09	0.1%	79%	21%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,178	0.4%	3.92	215	0.72	\$299,282.21	\$1,392.01	0.8%	82%	18%
<b>Screening Tests</b>	<b>184,029</b>	<b>69.9%</b>	<b>612.62</b>	<b>51,688</b>	<b>172.07</b>	<b>\$11,182,593.00</b>	<b>\$216.35</b>	<b>30.0%</b>	<b>72%</b>	<b>28%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	4,395	1.7%	14.63	12	0.04	\$5,808.49	\$484.04	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	112,973	42.9%	376.08	8,436	28.08	\$2,883,750.09	\$341.84	7.7%	93%	7%
Don't perform Pap smears on women with previous hysterectomy	227	0.1%	0.76	111	0.37	\$23,298.85	\$209.90	0.1%	51%	49%
Don't perform Pap smears on women younger than 21	489	0.2%	1.63	396	1.32	\$88,264.86	\$222.89	0.2%	19%	81%
Don't perform population based screening for 25-OH-Vitamin D deficiency	8,843	3.4%	29.44	8,843	29.44	\$1,276,019.69	\$144.30	3.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	17,969	6.8%	59.82	13,527	45.03	\$2,745,158.14	\$202.94	7.4%	25%	75%
Don't perform routine general health checks for asymptomatic adults	7,577	2.9%	25.22	7,577	25.22	\$1,240,066.33	\$163.66	3.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	621	0.2%	2.07	621	2.07	\$89,968.05	\$144.88	0.2%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	3,984	1.5%	13.26	856	2.85	\$197,513.71	\$230.74	0.5%	79%	21%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	9,811	3.7%	32.66	1,117	3.72	\$410,547.44	\$367.54	1.1%	89%	11%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	17,140	6.5%	57.06	10,192	33.93	\$2,222,197.23	\$218.03	6.0%	41%	59%
<b>Grand Total</b>	<b>263,226</b>	<b>100.0%</b>	<b>876.26</b>	<b>109,476</b>	<b>364.44</b>	<b>\$37,254,095.11</b>	<b>\$340.29</b>	<b>100.0%</b>	<b>58%</b>	<b>42%</b>

Report based on APCD claims data for Commercial coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 Southwest Region Wasteful Services- Medicaid

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>33,555</b>	<b>24.2%</b>	<b>112.13</b>	<b>32,101</b>	<b>107.27</b>	<b>\$1,089,564.00</b>	<b>\$33.94</b>	<b>7.5%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	18,327	13.2%	61.24	16,957	56.67	\$956,656.76	\$56.42	6.5%	7%	93%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	14	0.0%	0.05	13	0.04	\$518.03	\$39.85	0.0%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	636	0.5%	2.13	553	1.85	\$40,142.55	\$72.59	0.3%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	27	0.0%	0.09	27	0.09	\$1,238.55	\$45.87	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	14,551	10.5%	48.63	14,551	48.63	\$91,007.72	\$6.25	0.6%	0%	100%
<b>Diagnostic Testing</b>	<b>13,562</b>	<b>9.8%</b>	<b>45.32</b>	<b>4,804</b>	<b>16.05</b>	<b>\$7,315,828.00</b>	<b>\$1,522.86</b>	<b>50.0%</b>	<b>65%</b>	<b>35%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,133	0.8%	3.79	1,056	3.53	\$340,677.68	\$322.61	2.3%	7%	93%
Don't do imaging for uncomplicated headache.	1,833	1.3%	6.13	800	2.67	\$320,952.73	\$401.19	2.2%	56%	44%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	136	0.1%	0.45	128	0.43	\$82,525.33	\$644.73	0.6%	6%	94%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	79	0.1%	0.26	35	0.12	\$98,005.83	\$2,800.17	0.7%	56%	44%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$12.84	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	247	0.2%	0.83	139	0.46	\$33,085.11	\$238.02	0.2%	44%	56%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	191	0.1%	0.64	81	0.27	\$72,900.16	\$900.00	0.5%	58%	42%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	6,419	4.6%	21.45	928	3.10	\$5,012,744.39	\$5,401.66	34.3%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	1,101	0.8%	3.68	179	0.60	\$131,461.76	\$734.42	0.9%	84%	16%
Don't routinely do diagnostic testing in patients with chronic urticaria.	17	0.0%	0.06	17	0.06	\$8,830.83	\$519.46	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	757	0.5%	2.53	411	1.37	\$394,532.40	\$959.93	2.7%	46%	54%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	238	0.2%	0.80	238	0.80	\$195,608.68	\$821.89	1.3%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	524	0.4%	1.75	218	0.73	\$78,209.41	\$358.76	0.5%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$7,038.72	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	887	0.6%	2.96	574	1.92	\$539,242.18	\$939.45	3.7%	35%	65%
<b>Disease Approach</b>	<b>10,056</b>	<b>7.2%</b>	<b>33.60</b>	<b>6,341</b>	<b>21.19</b>	<b>\$1,570,733.00</b>	<b>\$247.71</b>	<b>10.7%</b>	<b>37%</b>	<b>63%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	28	0.0%	0.09	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	27	0.0%	0.09	27	0.09	\$30,675.41	\$1,136.13	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	964	0.7%	3.22	964	3.22	\$150,243.17	\$155.85	1.0%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	9,037	6.5%	30.20	5,350	17.88	\$1,389,814.08	\$259.78	9.5%	41%	59%
<b>Preoperative evaluation</b>	<b>11,036</b>	<b>8.0%</b>	<b>36.88</b>	<b>9,408</b>	<b>31.44</b>	<b>\$1,657,365.00</b>	<b>\$176.17</b>	<b>11.3%</b>	<b>15%</b>	<b>85%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	28	0.0%	0.09	28	0.09	\$8,069.94	\$288.21	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	9,731	7.0%	32.52	8,103	27.08	\$1,489,695.03	\$183.84	10.2%	17%	83%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,277	0.9%	4.27	1,277	4.27	\$159,599.68	\$124.98	1.1%	0%	100%
<b>Routine FU/Monitoring</b>	<b>744</b>	<b>0.5%</b>	<b>2.49</b>	<b>61</b>	<b>0.20</b>	<b>\$37,788.00</b>	<b>\$619.48</b>	<b>0.3%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	347	0.3%	1.16	*	*	\$1,116.30	*	0.0%	99%	1%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	19	0.0%	0.06	19	0.06	\$8,463.78	\$445.46	0.1%	0%	100%
Don't perform routine annual stress testing after coronary artery revascularization.	106	0.1%	0.35	*	*	\$4,214.66	*	0.0%	92%	8%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	272	0.2%	0.91	42	0.14	\$23,993.74	\$571.28	0.2%	85%	15%
<b>Screening Tests</b>	<b>69,752</b>	<b>50.3%</b>	<b>233.09</b>	<b>12,939</b>	<b>43.24</b>	<b>\$2,952,179.00</b>	<b>\$228.16</b>	<b>20.2%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,754	1.3%	5.86	54	0.18	\$49,849.09	\$923.13	0.3%	97%	3%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	54,101	39.0%	180.79	3,593	12.01	\$1,996,726.09	\$555.73	13.7%	93%	7%
Don't perform Pap smears on women with previous hysterectomy	73	0.1%	0.24	37	0.12	\$4,675.11	\$126.35	0.0%	49%	51%
Don't perform Pap smears on women younger than 21	706	0.5%	2.36	595	1.99	\$64,486.65	\$108.38	0.4%	16%	84%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,590	1.1%	5.31	1,590	5.31	\$94,997.74	\$59.75	0.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	8,127	5.9%	27.16	5,591	18.68	\$548,685.27	\$98.14	3.8%	31%	69%
Don't perform routine general health checks for asymptomatic adults	439	0.3%	1.47	439	1.47	\$44,330.07	\$100.98	0.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	26	0.0%	0.09	26	0.09	\$796.70	\$30.64	0.0%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	491	0.4%	1.64	84	0.28	\$7,834.86	\$93.27	0.1%	83%	17%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	1,210	0.9%	4.04	170	0.57	\$32,884.95	\$193.44	0.2%	86%	14%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	1,235	0.9%	4.13	760	2.54	\$106,911.99	\$140.67	0.7%	38%	62%
<b>Grand Total</b>	<b>138,716</b>	<b>100.0%</b>	<b>463.55</b>	<b>65,679</b>	<b>219.48</b>	<b>\$14,623,455.97</b>	<b>\$222.65</b>	<b>100.0%</b>	<b>53%</b>	<b>47%</b>

Report based on claims data for VA Medicaid FFS as well as Medicaid Managed Care coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2013 ACO Rating 1 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>4,845</b>	<b>4.6%</b>	<b>45.39</b>	<b>4,696</b>	<b>43.99</b>	<b>\$485,733.00</b>	<b>\$103.44</b>	<b>3.7%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	3,838	3.7%	35.95	3,704	34.70	\$469,726.45	\$126.82	3.5%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$62.59	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	124	0.1%	1.16	109	1.02	\$10,107.40	\$92.73	0.1%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$223.59	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	883	0.8%	8.27	883	8.27	\$5,613.33	\$6.36	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>8,610</b>	<b>8.2%</b>	<b>80.65</b>	<b>2,554</b>	<b>23.92</b>	<b>\$3,476,436.00</b>	<b>\$1,361.17</b>	<b>26.3%</b>	<b>70%</b>	<b>30%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	969	0.9%	9.08	818	7.66	\$280,139.69	\$342.47	2.1%	16%	84%
Don't do imaging for uncomplicated headache.	607	0.6%	5.69	195	1.83	\$229,687.51	\$1,177.88	1.7%	68%	32%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	52	0.0%	0.49	50	0.47	\$72,642.89	\$1,452.86	0.5%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	116	0.1%	1.09	50	0.47	\$133,209.35	\$2,664.19	1.0%	57%	43%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	61	0.1%	0.57	34	0.32	\$33,017.29	\$971.10	0.2%	44%	56%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	186	0.2%	1.74	78	0.73	\$97,477.93	\$1,249.72	0.7%	58%	42%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	5,365	5.1%	50.26	579	5.42	\$1,697,133.71	\$2,931.15	12.8%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	283	0.3%	2.65	147	1.38	\$77,397.19	\$526.51	0.6%	48%	52%
Don't routinely do diagnostic testing in patients with chronic urticaria.	11	0.0%	0.10	11	0.10	\$20,808.76	\$1,891.71	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	330	0.3%	3.09	197	1.85	\$323,332.21	\$1,641.28	2.4%	40%	60%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	77	0.1%	0.72	76	0.71	\$124,315.84	\$1,635.73	0.9%	1%	99%
Don't perform computed tomography scans on children being treated for headache.	66	0.1%	0.62	29	0.27	\$20,875.46	\$719.84	0.2%	56%	44%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$2,690.96	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	487	0.5%	4.56	290	2.72	\$363,706.85	\$1,254.16	2.7%	40%	60%
<b>Disease Approach</b>	<b>1,211</b>	<b>1.2%</b>	<b>11.34</b>	<b>972</b>	<b>9.11</b>	<b>\$489,898.00</b>	<b>\$504.01</b>	<b>3.7%</b>	<b>20%</b>	<b>80%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	19	0.0%	0.18	19	0.18	\$45,308.28	\$2,384.65	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	161	0.2%	1.51	161	1.51	\$19,596.27	\$121.72	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,031	1.0%	9.66	792	7.42	\$424,993.05	\$536.61	3.2%	23%	77%
<b>Preoperative evaluation</b>	<b>14,980</b>	<b>14.4%</b>	<b>140.33</b>	<b>12,341</b>	<b>115.60</b>	<b>\$6,125,523.00</b>	<b>\$496.36</b>	<b>46.3%</b>	<b>18%</b>	<b>82%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$1,035.20	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	14,089	13.5%	131.98	11,451	107.27	\$5,394,400.30	\$471.09	40.7%	19%	81%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	891	0.9%	8.35	890	8.34	\$730,087.08	\$820.32	5.5%	0%	100%
<b>Routine FU/Monitoring</b>	<b>1,957</b>	<b>1.9%</b>	<b>18.33</b>	<b>147</b>	<b>1.38</b>	<b>\$200,920.00</b>	<b>\$1,366.80</b>	<b>1.5%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,121	1.1%	10.50	30	0.28	\$8,408.48	\$280.28	0.1%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	12	0.0%	0.11	11	0.10	\$14,718.11	\$1,338.01	0.1%	8%	92%
Don't perform routine annual stress testing after coronary artery revascularization.	204	0.2%	1.91	18	0.17	\$19,167.09	\$1,064.84	0.1%	91%	9%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	620	0.6%	5.81	88	0.82	\$158,626.56	\$1,802.57	1.2%	86%	14%
<b>Screening Tests</b>	<b>72,745</b>	<b>69.7%</b>	<b>681.44</b>	<b>11,729</b>	<b>109.87</b>	<b>\$2,462,099.00</b>	<b>\$209.92</b>	<b>18.6%</b>	<b>84%</b>	<b>16%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,943	1.9%	18.20	*	*	\$2,647.33	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	52,709	50.5%	493.75	1,848	17.31	\$607,519.81	\$328.74	4.6%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	71	0.1%	0.67	25	0.23	\$4,606.35	\$184.25	0.0%	65%	35%
Don't perform Pap smears on women younger than 21	121	0.1%	1.13	101	0.95	\$17,225.90	\$170.55	0.1%	17%	83%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,592	1.5%	14.91	1,592	14.91	\$174,119.07	\$109.37	1.3%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	3,518	3.4%	32.95	2,609	24.44	\$487,349.45	\$186.80	3.7%	26%	74%
Don't perform routine general health checks for asymptomatic adults	1,426	1.4%	13.36	1,426	13.36	\$237,351.82	\$166.45	1.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	507	0.5%	4.75	507	4.75	\$43,734.75	\$86.26	0.3%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	1,141	1.1%	10.69	216	2.02	\$60,023.40	\$277.89	0.5%	81%	19%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,647	2.5%	24.80	642	6.01	\$286,486.36	\$446.24	2.2%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	7,070	6.8%	66.23	2,763	25.88	\$541,034.30	\$195.81	4.1%	61%	39%
<b>Grand Total</b>	<b>104,367</b>	<b>100.0%</b>	<b>977.66</b>	<b>32,461</b>	<b>304.08</b>	<b>\$13,240,607.96</b>	<b>\$407.89</b>	<b>100.0%</b>	<b>69%</b>	<b>31%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 2 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,211</b>	<b>2.4%</b>	<b>23.31</b>	<b>3,132</b>	<b>22.74</b>	<b>\$490,091.00</b>	<b>\$156.48</b>	<b>3.3%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,666	2.0%	19.35	2,597	18.85	\$476,650.89	\$183.54	3.2%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$235.94	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	97	0.1%	0.70	87	0.63	\$7,626.48	\$87.66	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$29.57	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	448	0.3%	3.25	448	3.25	\$5,548.25	\$12.38	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>8,109</b>	<b>6.1%</b>	<b>58.86</b>	<b>2,285</b>	<b>16.59</b>	<b>\$3,560,307.00</b>	<b>\$1,558.12</b>	<b>24.0%</b>	<b>72%</b>	<b>28%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	765	0.6%	5.55	643	4.67	\$320,796.55	\$498.91	2.2%	16%	84%
Don't do imaging for uncomplicated headache.	596	0.4%	4.33	166	1.20	\$218,168.66	\$1,314.27	1.5%	72%	28%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	39	0.0%	0.28	38	0.28	\$67,006.03	\$1,763.32	0.5%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	134	0.1%	0.97	54	0.39	\$199,505.03	\$3,694.54	1.3%	60%	40%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$113.94	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	124	0.1%	0.90	95	0.69	\$119,490.90	\$1,257.80	0.8%	23%	77%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	124	0.1%	0.90	31	0.23	\$69,249.90	\$2,233.87	0.5%	75%	25%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,620	3.5%	33.54	422	3.06	\$1,287,858.35	\$3,051.80	8.7%	91%	9%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	674	0.5%	4.89	360	2.61	\$284,994.80	\$791.65	1.9%	47%	53%
Don't routinely do diagnostic testing in patients with chronic urticaria.	36	0.0%	0.26	36	0.26	\$28,345.97	\$787.39	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	269	0.2%	1.95	120	0.87	\$456,517.90	\$3,804.32	3.1%	55%	45%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$483.14	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	20	0.0%	0.15	19	0.14	\$33,699.17	\$1,773.64	0.2%	5%	95%
Don't perform computed tomography scans on children being treated for headache.	63	0.0%	0.46	26	0.19	\$20,081.76	\$772.38	0.1%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	0	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	645	0.5%	4.68	275	2.00	\$453,994.42	\$1,650.89	3.1%	57%	43%
<b>Disease Approach</b>	<b>1,057</b>	<b>0.8%</b>	<b>7.67</b>	<b>730</b>	<b>5.30</b>	<b>\$415,842.00</b>	<b>\$569.65</b>	<b>2.8%</b>	<b>31%</b>	<b>69%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	12	0.0%	0.09	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	19	0.0%	0.14	19	0.14	\$40,039.21	\$2,107.33	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	72	0.1%	0.52	72	0.52	\$11,950.61	\$165.98	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	954	0.7%	6.93	639	4.64	\$363,852.07	\$569.41	2.4%	33%	67%
<b>Preoperative evaluation</b>	<b>17,944</b>	<b>13.5%</b>	<b>130.26</b>	<b>14,513</b>	<b>105.35</b>	<b>\$5,496,960.00</b>	<b>\$378.76</b>	<b>37.0%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$7,901.41	*	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	16,952	12.8%	123.05	13,533	98.24	\$5,042,406.29	\$372.60	33.9%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	992	0.7%	7.20	980	7.11	\$446,652.52	\$455.77	3.0%	1%	99%
<b>Routine FU/Monitoring</b>	<b>1,855</b>	<b>1.4%</b>	<b>13.47</b>	<b>188</b>	<b>1.36</b>	<b>\$234,577.00</b>	<b>\$1,247.75</b>	<b>1.6%</b>	<b>90%</b>	<b>10%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,044	0.8%	7.58	39	0.28	\$16,991.01	\$435.67	0.1%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	17	0.0%	0.12	16	0.12	\$16,801.30	\$1,050.08	0.1%	6%	94%
Don't perform routine annual stress testing after coronary artery revascularization.	169	0.1%	1.23	22	0.16	\$32,925.13	\$1,496.60	0.2%	87%	13%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	625	0.5%	4.54	111	0.81	\$167,859.60	\$1,512.25	1.1%	82%	18%
<b>Screening Tests</b>	<b>100,499</b>	<b>75.7%</b>	<b>729.52</b>	<b>17,635</b>	<b>128.01</b>	<b>\$4,659,927.00</b>	<b>\$264.24</b>	<b>31.4%</b>	<b>82%</b>	<b>18%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,844	1.4%	13.39	15	0.11	\$8,317.36	\$554.49	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	71,817	54.1%	521.32	3,132	22.74	\$1,276,350.70	\$407.52	8.6%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	57	0.0%	0.41	19	0.14	\$4,842.06	\$254.85	0.0%	67%	33%
Don't perform Pap smears on women younger than 21	121	0.1%	0.88	109	0.79	\$30,688.97	\$281.55	0.2%	10%	90%
Don't perform population based screening for 25-OH-Vitamin D deficiency	3,033	2.3%	22.02	3,033	22.02	\$550,271.95	\$181.43	3.7%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	5,565	4.2%	40.40	4,324	31.39	\$1,121,817.91	\$259.44	7.6%	22%	78%
Don't perform routine general health checks for asymptomatic adults	1,784	1.3%	12.95	1,784	12.95	\$318,942.97	\$178.78	2.1%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	829	0.6%	6.02	829	6.02	\$112,938.17	\$136.23	0.8%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	2,472	1.9%	17.94	330	2.40	\$90,696.34	\$274.84	0.6%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,844	2.1%	20.64	772	5.60	\$245,046.65	\$317.42	1.6%	73%	27%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	10,133	7.6%	73.56	3,288	23.87	\$900,013.50	\$273.73	6.1%	68%	32%
<b>Grand Total</b>	<b>132,695</b>	<b>100.0%</b>	<b>963.23</b>	<b>38,503</b>	<b>279.49</b>	<b>\$14,857,703.38</b>	<b>\$385.88</b>	<b>100.0%</b>	<b>71%</b>	<b>29%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 3 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>5,146</b>	<b>5.2%</b>	<b>70.15</b>	<b>4,984</b>	<b>67.94</b>	<b>\$351,490.00</b>	<b>\$70.52</b>	<b>3.5%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,767	2.8%	37.72	2,615	35.65	\$327,449.58	\$125.22	3.2%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$363.70	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	93	0.1%	1.27	83	1.13	\$5,876.47	\$70.80	0.1%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$184.51	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	2,286	2.3%	31.16	2,286	31.16	\$17,616.01	\$7.71	0.2%	0%	100%
<b>Diagnostic Testing</b>	<b>7,651</b>	<b>7.8%</b>	<b>104.30</b>	<b>2,489</b>	<b>33.93</b>	<b>\$3,969,172.00</b>	<b>\$1,594.69</b>	<b>39.1%</b>	<b>67%</b>	<b>33%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,086	1.1%	14.80	970	13.22	\$314,648.32	\$324.38	3.1%	11%	89%
Don't do imaging for uncomplicated headache.	494	0.5%	6.73	183	2.49	\$144,829.19	\$791.42	1.4%	63%	37%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	62	0.1%	0.85	59	0.80	\$61,728.45	\$1,046.24	0.6%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	78	0.1%	1.06	28	0.38	\$68,946.10	\$2,462.36	0.7%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	107	0.1%	1.46	79	1.08	\$40,409.91	\$511.52	0.4%	26%	74%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	231	0.2%	3.15	115	1.57	\$100,344.60	\$872.56	1.0%	50%	50%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,382	4.5%	59.73	372	5.07	\$2,333,678.08	\$6,273.33	23.0%	92%	8%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	369	0.4%	5.03	173	2.36	\$139,750.68	\$807.81	1.4%	53%	47%
Don't routinely do diagnostic testing in patients with chronic urticaria.	14	0.0%	0.19	14	0.19	\$8,603.54	\$614.54	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	297	0.3%	4.05	171	2.33	\$357,615.83	\$2,091.32	3.5%	42%	58%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	24	0.0%	0.33	23	0.31	\$48,289.43	\$2,099.54	0.5%	4%	96%
Don't perform computed tomography scans on children being treated for headache.	62	0.1%	0.85	29	0.40	\$12,451.67	\$429.37	0.1%	53%	47%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	0	0.0%	0.00	-	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	445	0.5%	6.07	273	3.72	\$337,876.19	\$1,237.64	3.3%	39%	61%
<b>Disease Approach</b>	<b>1,660</b>	<b>1.7%</b>	<b>22.63</b>	<b>1,149</b>	<b>15.66</b>	<b>\$305,866.00</b>	<b>\$266.20</b>	<b>3.0%</b>	<b>31%</b>	<b>69%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$25,600.27	*	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	72	0.1%	0.98	72	0.98	\$5,692.45	\$79.06	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,588	1.6%	21.65	1,077	14.68	\$274,573.69	\$254.94	2.7%	32%	68%
<b>Preoperative evaluation</b>	<b>11,619</b>	<b>11.8%</b>	<b>158.39</b>	<b>9,171</b>	<b>125.02</b>	<b>\$3,298,146.00</b>	<b>\$359.63</b>	<b>32.5%</b>	<b>21%</b>	<b>79%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$1,366.32	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	11,191	11.4%	152.55	8,747	119.24	\$3,088,767.26	\$353.12	30.4%	22%	78%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	428	0.4%	5.83	424	5.78	\$208,012.38	\$490.60	2.0%	1%	99%
<b>Routine FU/Monitoring</b>	<b>1,497</b>	<b>1.5%</b>	<b>20.41</b>	<b>113</b>	<b>1.54</b>	<b>\$128,263.00</b>	<b>\$1,135.07</b>	<b>1.3%</b>	<b>92%</b>	<b>8%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	843	0.9%	11.49	17	0.23	\$25,377.06	\$1,492.77	0.2%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	25	0.0%	0.34	22	0.30	\$8,841.14	\$401.87	0.1%	12%	88%
Don't perform routine annual stress testing after coronary artery revascularization.	138	0.1%	1.88	13	0.18	\$7,483.63	\$575.66	0.1%	91%	9%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	491	0.5%	6.69	61	0.83	\$86,561.43	\$1,419.04	0.9%	88%	12%
<b>Screening Tests</b>	<b>70,562</b>	<b>71.9%</b>	<b>961.89</b>	<b>7,834</b>	<b>106.79</b>	<b>\$2,104,446.00</b>	<b>\$268.63</b>	<b>20.7%</b>	<b>89%</b>	<b>11%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,156	1.2%	15.76	*	*	\$527.10	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	54,967	56.0%	749.30	810	11.04	\$854,510.04	\$1,054.95	8.4%	99%	1%
Don't perform Pap smears on women with previous hysterectomy	33	0.0%	0.45	13	0.18	\$2,685.13	\$206.55	0.0%	61%	39%
Don't perform Pap smears on women younger than 21	112	0.1%	1.53	68	0.93	\$10,375.45	\$152.58	0.1%	39%	61%
Don't perform population based screening for 25-OH-Vitamin D deficiency	947	1.0%	12.91	947	12.91	\$138,914.87	\$146.69	1.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	2,357	2.4%	32.13	1,581	21.55	\$236,847.44	\$149.81	2.3%	33%	67%
Don't perform routine general health checks for asymptomatic adults	409	0.4%	5.58	409	5.58	\$67,404.58	\$164.80	0.7%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	659	0.7%	8.98	659	8.98	\$89,604.48	\$135.97	0.9%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	1,392	1.4%	18.98	159	2.17	\$26,991.56	\$169.76	0.3%	89%	11%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	3,666	3.7%	49.97	1,105	15.06	\$258,449.05	\$233.89	2.5%	70%	30%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	4,864	5.0%	66.30	2,083	28.39	\$418,135.95	\$200.74	4.1%	57%	43%
<b>Grand Total</b>	<b>98,159</b>	<b>100.0%</b>	<b>1338.08</b>	<b>25,764</b>	<b>351.21</b>	<b>\$10,157,383.54</b>	<b>\$394.25</b>	<b>100.0%</b>	<b>74%</b>	<b>26%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 4 Wasteful Services- Overall

Waste Measure Rule				Total Wasteful Results					Quality Index	Waste Index
	Total Services Measured	Percent of all Services	Services Measured per 1000	Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,661</b>	<b>6.1%</b>	<b>54.80</b>	<b>3,557</b>	<b>53.24</b>	<b>\$663,306.00</b>	<b>\$186.48</b>	<b>6.9%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,958	4.9%	44.28	2,859	42.79	\$654,040.62	\$228.77	6.8%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$402.50	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	62	0.1%	0.93	57	0.85	\$4,825.68	\$84.66	0.0%	8%	92%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$150.70	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	641	1.1%	9.59	641	9.59	\$3,886.69	\$6.06	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>6,598</b>	<b>10.9%</b>	<b>98.76</b>	<b>1,648</b>	<b>24.67</b>	<b>\$2,906,790.00</b>	<b>\$1,763.83</b>	<b>30.1%</b>	<b>75%</b>	<b>25%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	589	1.0%	8.82	478	7.15	\$194,187.68	\$406.25	2.0%	19%	81%
Don't do imaging for uncomplicated headache.	438	0.7%	6.56	114	1.71	\$129,136.82	\$1,132.78	1.3%	74%	26%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	24	0.0%	0.36	24	0.36	\$31,513.53	\$1,313.06	0.3%	0%	100%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	68	0.1%	1.02	26	0.39	\$98,562.06	\$3,790.85	1.0%	62%	38%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$181.88	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	45	0.1%	0.67	19	0.28	\$44,071.23	\$2,319.54	0.5%	58%	42%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	149	0.2%	2.23	37	0.55	\$89,696.95	\$2,424.24	0.9%	75%	25%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	4,197	6.9%	62.82	460	6.89	\$1,580,851.07	\$3,436.63	16.4%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	336	0.6%	5.03	151	2.26	\$99,887.11	\$661.50	1.0%	55%	45%
Don't routinely do diagnostic testing in patients with chronic urticaria.	11	0.0%	0.16	11	0.16	\$52,097.93	\$4,736.18	0.5%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	178	0.3%	2.66	77	1.15	\$230,944.73	\$2,999.28	2.4%	57%	43%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	29	0.0%	0.43	29	0.43	\$55,647.75	\$1,918.89	0.6%	0%	100%
Don't perform computed tomography scans on children being treated for headache.	84	0.1%	1.26	31	0.46	\$19,796.56	\$638.60	0.2%	63%	37%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	450	0.7%	6.74	191	2.86	\$280,214.70	\$1,467.09	2.9%	58%	42%
<b>Disease Approach</b>	<b>662</b>	<b>1.1%</b>	<b>9.91</b>	<b>493</b>	<b>7.38</b>	<b>\$189,783.00</b>	<b>\$384.96</b>	<b>2.0%</b>	<b>26%</b>	<b>74%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$10,569.84	*	0.1%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	56	0.1%	0.84	56	0.84	\$7,189.40	\$128.38	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	606	1.0%	9.07	437	6.54	\$172,024.17	\$393.65	1.8%	28%	72%
<b>Preoperative evaluation</b>	<b>7,507</b>	<b>12.4%</b>	<b>112.37</b>	<b>6,367</b>	<b>95.30</b>	<b>\$3,782,305.00</b>	<b>\$594.05</b>	<b>39.2%</b>	<b>15%</b>	<b>85%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$11,948.95	*	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,136	11.8%	106.82	5,998	89.78	\$3,542,839.20	\$590.67	36.7%	16%	84%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	371	0.6%	5.55	369	5.52	\$227,517.01	\$616.58	2.4%	1%	99%
<b>Routine FU/Monitoring</b>	<b>920</b>	<b>1.5%</b>	<b>13.77</b>	<b>85</b>	<b>1.27</b>	<b>\$153,023.00</b>	<b>\$1,800.27</b>	<b>1.6%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	504	0.8%	7.54	11	0.16	\$7,086.45	\$644.22	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	15	0.0%	0.22	14	0.21	\$12,428.77	\$887.77	0.1%	7%	93%
Don't perform routine annual stress testing after coronary artery revascularization.	103	0.2%	1.54	*	*	\$11,502.41	*	0.1%	90%	10%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	298	0.5%	4.46	60	0.90	\$122,005.18	\$2,033.42	1.3%	80%	20%
<b>Screening Tests</b>	<b>41,033</b>	<b>67.9%</b>	<b>614.20</b>	<b>7,897</b>	<b>118.21</b>	<b>\$1,957,144.00</b>	<b>\$247.83</b>	<b>20.3%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,060	1.8%	15.87	*	*	\$1,850.42	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	28,517	47.2%	426.86	1,216	18.20	\$457,770.36	\$376.46	4.7%	96%	4%
Don't perform Pap smears on women with previous hysterectomy	32	0.1%	0.48	*	*	\$1,631.87	*	0.0%	69%	31%
Don't perform Pap smears on women younger than 21	51	0.1%	0.76	42	0.63	\$8,027.42	\$191.13	0.1%	18%	82%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,371	2.3%	20.52	1,371	20.52	\$346,344.02	\$252.62	3.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	2,359	3.9%	35.31	1,823	27.29	\$344,292.81	\$188.86	3.6%	23%	77%
Don't perform routine general health checks for asymptomatic adults	753	1.2%	11.27	753	11.27	\$129,982.59	\$172.62	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	499	0.8%	7.47	499	7.47	\$67,198.20	\$134.67	0.7%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	740	1.2%	11.08	120	1.80	\$27,505.39	\$229.21	0.3%	84%	16%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,256	3.7%	33.77	548	8.20	\$208,323.81	\$380.15	2.2%	76%	24%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,395	5.6%	50.82	1,525	22.83	\$364,216.73	\$238.83	3.8%	55%	45%
<b>Grand Total</b>	<b>60,402</b>	<b>100.0%</b>	<b>904.13</b>	<b>20,087</b>	<b>300.67</b>	<b>\$9,652,351.19</b>	<b>\$480.53</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2013 ACO Rating 5 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,569</b>	<b>5.4%</b>	<b>56.26</b>	<b>3,415</b>	<b>53.84</b>	<b>\$238,179.00</b>	<b>\$69.75</b>	<b>3.5%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	2,923	4.4%	46.08	2,779	43.81	\$230,809.23	\$83.05	3.4%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$30.65	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	73	0.1%	1.15	63	0.99	\$3,509.00	\$55.70	0.1%	14%	86%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	573	0.9%	9.03	573	9.03	\$3,830.56	\$6.69	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>5,953</b>	<b>9.0%</b>	<b>93.85</b>	<b>1,724</b>	<b>27.18</b>	<b>\$2,206,326.00</b>	<b>\$1,279.77</b>	<b>32.8%</b>	<b>71%</b>	<b>29%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	613	0.9%	9.66	530	8.36	\$182,833.50	\$344.97	2.7%	14%	86%
Don't do imaging for uncomplicated headache.	435	0.7%	6.86	134	2.11	\$91,206.63	\$680.65	1.4%	69%	31%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	38	0.1%	0.60	36	0.57	\$38,042.80	\$1,056.74	0.6%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	85	0.1%	1.34	32	0.50	\$119,442.74	\$3,732.59	1.8%	62%	38%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$66.60	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	47	0.1%	0.74	24	0.38	\$14,313.29	\$596.39	0.2%	49%	51%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	177	0.3%	2.79	63	0.99	\$78,414.45	\$1,244.67	1.2%	64%	36%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,588	5.4%	56.56	429	6.76	\$1,064,664.35	\$2,481.74	15.8%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	206	0.3%	3.25	98	1.54	\$59,628.24	\$608.45	0.9%	52%	48%
Don't routinely do diagnostic testing in patients with chronic urticaria.	*	*	*	*	*	\$1,681.30	*	0.0%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	250	0.4%	3.94	137	2.16	\$261,991.43	\$1,912.35	3.9%	45%	55%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$300.68	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	52	0.1%	0.82	51	0.80	\$43,558.23	\$854.08	0.6%	2%	98%
Don't perform computed tomography scans on children being treated for headache.	51	0.1%	0.80	18	0.28	\$6,294.22	\$349.68	0.1%	65%	35%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$327.33	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	411	0.6%	6.48	172	2.71	\$243,560.37	\$1,416.05	3.6%	58%	42%
<b>Disease Approach</b>	<b>1,187</b>	<b>1.8%</b>	<b>18.71</b>	<b>882</b>	<b>13.90</b>	<b>\$336,784.00</b>	<b>\$381.84</b>	<b>5.0%</b>	<b>26%</b>	<b>74%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	*	*	*	*	*	\$4,142.52	*	0.1%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	66	0.1%	1.04	66	1.04	\$12,227.89	\$185.27	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,121	1.7%	17.67	816	12.86	\$320,413.19	\$392.66	4.8%	27%	73%
<b>Preoperative evaluation</b>	<b>8,292</b>	<b>12.6%</b>	<b>130.72</b>	<b>6,509</b>	<b>102.61</b>	<b>\$2,504,680.00</b>	<b>\$384.80</b>	<b>37.2%</b>	<b>22%</b>	<b>78%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$3,161.92	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,921	12.0%	124.87	6,139	96.78	\$2,362,107.65	\$384.77	35.1%	22%	78%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	371	0.6%	5.85	370	5.83	\$139,410.89	\$376.79	2.1%	0%	100%
<b>Routine FU/Monitoring</b>	<b>1,042</b>	<b>1.6%</b>	<b>16.43</b>	<b>138</b>	<b>2.18</b>	<b>\$168,778.00</b>	<b>\$1,223.03</b>	<b>2.5%</b>	<b>87%</b>	<b>13%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	429	0.7%	6.76	*	*	\$10,611.96	*	0.2%	99%	1%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	11	0.0%	0.17	*	*	\$6,781.76	*	0.1%	9%	91%
Don't perform routine annual stress testing after coronary artery revascularization.	127	0.2%	2.00	*	*	\$12,490.80	*	0.2%	92%	8%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	475	0.7%	7.49	138	2.18	\$138,893.85	\$1,006.48	2.1%	71%	29%
<b>Screening Tests</b>	<b>45,781</b>	<b>69.5%</b>	<b>721.72</b>	<b>5,852</b>	<b>92.25</b>	<b>\$1,272,840.00</b>	<b>\$217.51</b>	<b>18.9%</b>	<b>87%</b>	<b>13%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,296	2.0%	20.43	*	*	\$6,900.52	*	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	34,773	52.8%	548.18	836	13.18	\$297,020.10	\$355.29	4.4%	98%	2%
Don't perform Pap smears on women with previous hysterectomy	32	0.0%	0.50	*	*	\$1,670.98	*	0.0%	69%	31%
Don't perform Pap smears on women younger than 21	82	0.1%	1.29	75	1.18	\$9,763.52	\$130.18	0.1%	9%	91%
Don't perform population based screening for 25-OH-Vitamin D deficiency	638	1.0%	10.06	638	10.06	\$93,847.12	\$147.10	1.4%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	1,384	2.1%	21.82	1,126	17.75	\$175,252.48	\$155.64	2.6%	19%	81%
Don't perform routine general health checks for asymptomatic adults	460	0.7%	7.25	460	7.25	\$67,987.31	\$147.80	1.0%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	536	0.8%	8.45	536	8.45	\$48,851.94	\$91.14	0.7%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	590	0.9%	9.30	79	1.25	\$19,298.44	\$244.28	0.3%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	2,023	3.1%	31.89	506	7.98	\$176,754.04	\$349.32	2.6%	75%	25%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	3,967	6.0%	62.54	1,596	25.16	\$375,493.47	\$235.27	5.6%	60%	40%
<b>Grand Total</b>	<b>65,845</b>	<b>100.0%</b>	<b>1038.02</b>	<b>18,582</b>	<b>292.94</b>	<b>\$6,727,587.95</b>	<b>\$362.05</b>	<b>100.0%</b>	<b>72%</b>	<b>28%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 6 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>8,110</b>	<b>4.8%</b>	<b>51.18</b>	<b>7,935</b>	<b>50.07</b>	<b>\$612,528.00</b>	<b>\$77.19</b>	<b>3.1%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	5,608	3.3%	35.39	5,453	34.41	\$580,581.97	\$106.47	2.9%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$101.18	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	172	0.1%	1.09	152	0.96	\$16,018.78	\$105.39	0.1%	12%	88%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$853.75	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	2,330	1.4%	14.70	2,330	14.70	\$14,972.55	\$6.43	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>13,955</b>	<b>8.2%</b>	<b>88.06</b>	<b>4,254</b>	<b>26.84</b>	<b>\$7,063,545.00</b>	<b>\$1,660.45</b>	<b>35.7%</b>	<b>70%</b>	<b>30%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	2,096	1.2%	13.23	1,749	11.04	\$562,399.20	\$321.55	2.8%	17%	83%
Don't do imaging for uncomplicated headache.	964	0.6%	6.08	303	1.91	\$227,197.79	\$749.83	1.1%	69%	31%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	72	0.0%	0.45	62	0.39	\$49,451.59	\$797.61	0.2%	14%	86%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	252	0.1%	1.59	92	0.58	\$393,589.16	\$4,278.14	2.0%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	66	0.0%	0.42	36	0.23	\$23,143.69	\$642.88	0.1%	45%	55%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	148	0.1%	0.93	45	0.28	\$44,636.21	\$991.92	0.2%	70%	30%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	8,290	4.9%	52.31	833	5.26	\$4,419,565.69	\$5,305.60	22.3%	90%	10%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	809	0.5%	5.11	441	2.78	\$274,588.12	\$622.65	1.4%	45%	55%
Don't routinely do diagnostic testing in patients with chronic urticaria.	31	0.0%	0.20	31	0.20	\$36,776.09	\$1,186.33	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	359	0.2%	2.27	224	1.41	\$475,217.09	\$2,121.50	2.4%	38%	62%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$999.11	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	77	0.0%	0.49	76	0.48	\$83,835.15	\$1,103.09	0.4%	1%	99%
Don't perform computed tomography scans on children being treated for headache.	77	0.0%	0.49	42	0.27	\$28,327.57	\$674.47	0.1%	45%	55%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$550.58	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	714	0.4%	4.51	320	2.02	\$443,267.90	\$1,385.21	2.2%	55%	45%
<b>Disease Approach</b>	<b>2,081</b>	<b>1.2%</b>	<b>13.13</b>	<b>1,518</b>	<b>9.58</b>	<b>\$543,430.00</b>	<b>\$357.99</b>	<b>2.7%</b>	<b>27%</b>	<b>73%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	20	0.0%	0.13	20	0.13	\$32,629.92	\$1,631.50	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	280	0.2%	1.77	280	1.77	\$61,708.90	\$220.39	0.3%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDS) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	1,781	1.0%	11.24	1,218	7.69	\$449,091.60	\$368.71	2.3%	32%	68%
<b>Preoperative evaluation</b>	<b>24,500</b>	<b>14.4%</b>	<b>154.60</b>	<b>19,904</b>	<b>125.60</b>	<b>\$6,782,006.00</b>	<b>\$340.74</b>	<b>34.2%</b>	<b>19%</b>	<b>81%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$1,678.91	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	23,362	13.7%	147.42	18,776	118.48	\$6,347,883.65	\$338.08	32.0%	20%	80%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,138	0.7%	7.18	1,128	7.12	\$432,443.84	\$383.37	2.2%	1%	99%
<b>Routine FU/Monitoring</b>	<b>2,459</b>	<b>1.4%</b>	<b>15.52</b>	<b>224</b>	<b>1.41</b>	<b>\$397,486.00</b>	<b>\$1,774.49</b>	<b>2.0%</b>	<b>91%</b>	<b>9%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,427	0.8%	9.00	33	0.21	\$24,881.76	\$753.99	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	33	0.0%	0.21	32	0.20	\$13,847.80	\$432.74	0.1%	3%	97%
Don't perform routine annual stress testing after coronary artery revascularization.	289	0.2%	1.82	43	0.27	\$18,756.82	\$436.21	0.1%	85%	15%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	710	0.4%	4.48	116	0.73	\$339,999.55	\$2,931.03	1.7%	84%	16%
<b>Screening Tests</b>	<b>119,025</b>	<b>70.0%</b>	<b>751.09</b>	<b>20,769</b>	<b>131.06</b>	<b>\$4,412,213.00</b>	<b>\$212.44</b>	<b>22.3%</b>	<b>83%</b>	<b>17%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	2,404	1.4%	15.17	13	0.08	\$10,978.84	\$844.53	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	82,858	48.7%	522.87	2,530	15.97	\$1,224,965.49	\$484.18	6.2%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	121	0.1%	0.76	27	0.17	\$4,896.97	\$181.37	0.0%	78%	22%
Don't perform Pap smears on women younger than 21	174	0.1%	1.10	138	0.87	\$24,881.96	\$180.30	0.1%	21%	79%
Don't perform population based screening for 25-OH-Vitamin D deficiency	5,510	3.2%	34.77	5,510	34.77	\$703,852.36	\$127.74	3.6%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	4,491	2.6%	28.34	3,123	19.71	\$560,201.60	\$179.38	2.8%	30%	70%
Don't perform routine general health checks for asymptomatic adults	1,940	1.1%	12.24	1,940	12.24	\$319,372.04	\$164.62	1.6%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	1,507	0.9%	9.51	1,507	9.51	\$170,338.29	\$113.03	0.9%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	6,244	3.7%	39.40	911	5.75	\$164,016.02	\$180.04	0.8%	85%	15%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	5,271	3.1%	33.26	1,409	8.89	\$400,873.45	\$284.51	2.0%	73%	27%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	8,505	5.0%	53.67	3,661	23.10	\$827,836.34	\$226.12	4.2%	57%	43%
<b>Grand Total</b>	<b>170,150</b>	<b>100.0%</b>	<b>1073.71</b>	<b>54,620</b>	<b>344.67</b>	<b>\$19,811,209.28</b>	<b>\$362.71</b>	<b>100.0%</b>	<b>68%</b>	<b>32%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 7 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>49,341</b>	<b>5.5%</b>	<b>53.71</b>	<b>48,184</b>	<b>52.45</b>	<b>\$7,202,717.00</b>	<b>\$149.48</b>	<b>6.4%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	40,396	4.5%	43.97	39,344	42.82	\$7,010,401.80	\$178.18	6.2%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	25	0.0%	0.03	24	0.03	\$1,947.72	\$81.16	0.0%	4%	96%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,059	0.1%	1.15	955	1.04	\$134,755.27	\$141.10	0.1%	10%	90%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	16	0.0%	0.02	16	0.02	\$970.21	\$60.64	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	7,845	0.9%	8.54	7,845	8.54	\$54,642.30	\$6.97	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>69,503</b>	<b>7.7%</b>	<b>75.65</b>	<b>25,346</b>	<b>27.59</b>	<b>\$34,155,961.00</b>	<b>\$1,347.59</b>	<b>30.4%</b>	<b>64%</b>	<b>36%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	10,675	1.2%	11.62	9,750	10.61	\$3,364,558.24	\$345.08	3.0%	9%	91%
Don't do imaging for uncomplicated headache.	6,088	0.7%	6.63	2,183	2.38	\$2,357,441.61	\$1,079.91	2.1%	64%	36%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	545	0.1%	0.59	532	0.58	\$718,686.65	\$1,350.91	0.6%	2%	98%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	709	0.1%	0.77	266	0.29	\$1,241,190.26	\$4,666.13	1.1%	62%	38%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	50	0.0%	0.05	50	0.05	\$4,869.32	\$97.39	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	103	0.0%	0.11	103	0.11	\$22,568.20	\$219.11	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	581	0.1%	0.63	296	0.32	\$431,157.76	\$1,456.61	0.4%	49%	51%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,214	0.1%	1.32	472	0.51	\$531,409.51	\$1,125.87	0.5%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	35,253	3.9%	38.37	3,623	3.94	\$12,797,655.57	\$3,532.34	11.4%	90%	10%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	3,296	0.4%	3.59	1,631	1.78	\$1,205,954.32	\$739.40	1.1%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	103	0.0%	0.11	103	0.11	\$124,705.16	\$1,210.73	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,518	0.4%	3.83	2,085	2.27	\$4,743,071.27	\$2,274.85	4.2%	41%	59%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$3,376.67	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	337	0.0%	0.37	319	0.35	\$495,720.82	\$1,553.98	0.4%	5%	95%
Don't perform computed tomography scans on children being treated for headache.	919	0.1%	1.00	389	0.42	\$457,920.19	\$1,177.17	0.4%	58%	42%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	12	0.0%	0.01	12	0.01	\$28,109.35	\$2,342.45	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	6,100	0.7%	6.64	3,532	3.84	\$5,627,565.95	\$1,593.31	5.0%	42%	58%
<b>Disease Approach</b>	<b>11,159</b>	<b>1.2%</b>	<b>12.15</b>	<b>8,863</b>	<b>9.65</b>	<b>\$4,065,498.00</b>	<b>\$458.70</b>	<b>3.6%</b>	<b>21%</b>	<b>79%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	62	0.0%	0.07	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	144	0.0%	0.16	144	0.16	\$372,637.92	\$2,587.76	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	953	0.1%	1.04	953	1.04	\$207,871.17	\$218.12	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	10,000	1.1%	10.88	7,766	8.45	\$3,484,989.22	\$448.75	3.1%	22%	78%
<b>Preoperative evaluation</b>	<b>112,591</b>	<b>12.4%</b>	<b>122.55</b>	<b>87,236</b>	<b>94.95</b>	<b>\$34,294,583.00</b>	<b>\$393.12</b>	<b>30.5%</b>	<b>23%</b>	<b>77%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	77	0.0%	0.08	76	0.08	\$38,556.58	\$507.32	0.0%	1%	99%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	105,871	11.7%	115.24	80,570	87.70	\$31,246,801.91	\$387.82	27.8%	24%	76%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	6,643	0.7%	7.23	6,590	7.17	\$3,009,224.87	\$456.64	2.7%	1%	99%
<b>Routine FU/Monitoring</b>	<b>13,260</b>	<b>1.5%</b>	<b>14.43</b>	<b>1,591</b>	<b>1.73</b>	<b>\$3,459,238.00</b>	<b>\$2,174.25</b>	<b>3.1%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,180	0.7%	6.73	144	0.16	\$575,539.24	\$3,996.80	0.5%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	135	0.0%	0.15	129	0.14	\$129,572.10	\$1,004.43	0.1%	4%	96%
Don't perform routine annual stress testing after coronary artery revascularization.	1,587	0.2%	1.73	207	0.23	\$402,414.56	\$1,944.03	0.4%	87%	13%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,358	0.6%	5.83	1,111	1.21	\$2,351,712.34	\$2,116.75	2.1%	79%	21%
<b>Screening Tests</b>	<b>649,183</b>	<b>71.7%</b>	<b>706.60</b>	<b>126,264</b>	<b>137.43</b>	<b>\$29,303,190.00</b>	<b>\$232.08</b>	<b>26.1%</b>	<b>81%</b>	<b>19%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	14,192	1.6%	15.45	116	0.13	\$88,556.75	\$763.42	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	448,938	49.6%	488.65	21,550	23.46	\$9,589,439.72	\$444.99	8.5%	95%	5%
Don't perform Pap smears on women with previous hysterectomy	717	0.1%	0.78	277	0.30	\$53,970.31	\$194.84	0.0%	61%	39%
Don't perform Pap smears on women younger than 21	1,204	0.1%	1.31	1,057	1.15	\$203,050.15	\$192.10	0.2%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	20,203	2.2%	21.99	20,203	21.99	\$2,142,872.89	\$106.07	1.9%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	38,758	4.3%	42.19	30,976	33.72	\$6,165,413.85	\$199.04	5.5%	20%	80%
Don't perform routine general health checks for asymptomatic adults	11,818	1.3%	12.86	11,818	12.86	\$2,136,596.81	\$180.79	1.9%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,292	0.6%	5.76	5,292	5.76	\$510,187.01	\$96.41	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	11,535	1.3%	12.56	1,698	1.85	\$386,118.07	\$227.40	0.3%	85%	15%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	29,875	3.3%	32.52	5,520	6.01	\$2,374,032.37	\$430.08	2.1%	82%	18%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	66,651	7.4%	72.55	27,757	30.21	\$5,652,952.29	\$203.66	5.0%	58%	42%
<b>Grand Total</b>	<b>905,045</b>	<b>100.0%</b>	<b>985.09</b>	<b>297,492</b>	<b>323.80</b>	<b>\$112,481,188.28</b>	<b>\$378.10</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 ACO Rating 8 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>12,256</b>	<b>5.6%</b>	<b>57.77</b>	<b>11,953</b>	<b>56.34</b>	<b>\$1,042,076.00</b>	<b>\$87.18</b>	<b>4.0%</b>	<b>2%</b>	<b>98%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	9,431	4.3%	44.45	9,153	43.14	\$1,005,596.73	\$109.87	3.9%	3%	97%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$247.33	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	227	0.1%	1.07	202	0.95	\$21,958.60	\$108.71	0.1%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	15	0.0%	0.07	15	0.07	\$742.01	\$49.47	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	2,583	1.2%	12.17	2,583	12.17	\$13,530.97	\$5.24	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>17,612</b>	<b>8.0%</b>	<b>83.01</b>	<b>4,720</b>	<b>22.25</b>	<b>\$7,862,443.00</b>	<b>\$1,665.77</b>	<b>30.5%</b>	<b>73%</b>	<b>27%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	1,472	0.7%	6.94	1,255	5.92	\$462,329.80	\$368.39	1.8%	15%	85%
Don't do imaging for uncomplicated headache.	1,202	0.5%	5.67	359	1.69	\$366,285.50	\$1,020.29	1.4%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	91	0.0%	0.43	84	0.40	\$96,530.23	\$1,149.17	0.4%	8%	92%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	287	0.1%	1.35	95	0.45	\$383,255.44	\$4,034.27	1.5%	67%	33%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	89	0.0%	0.42	42	0.20	\$35,796.35	\$852.29	0.1%	53%	47%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	341	0.2%	1.61	146	0.69	\$180,286.67	\$1,234.84	0.7%	57%	43%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	11,552	5.3%	54.45	1,347	6.35	\$4,451,677.90	\$3,304.88	17.3%	88%	12%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	870	0.4%	4.10	459	2.16	\$202,365.40	\$440.88	0.8%	47%	53%
Don't routinely do diagnostic testing in patients with chronic urticaria.	24	0.0%	0.11	24	0.11	\$16,570.72	\$690.45	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	535	0.2%	2.52	304	1.43	\$817,850.38	\$2,690.30	3.2%	43%	57%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$3,693.56	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	50	0.0%	0.24	47	0.22	\$68,854.42	\$1,464.99	0.3%	6%	94%
Don't perform computed tomography scans on children being treated for headache.	99	0.0%	0.47	32	0.15	\$21,221.35	\$663.17	0.1%	68%	32%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$672.33	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	1,000	0.5%	4.71	526	2.48	\$755,053.26	\$1,435.46	2.9%	47%	53%
<b>Disease Approach</b>	<b>3,244</b>	<b>1.5%</b>	<b>15.29</b>	<b>2,548</b>	<b>12.01</b>	<b>\$917,901.00</b>	<b>\$360.24</b>	<b>3.6%</b>	<b>21%</b>	<b>79%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	11	0.0%	0.05	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	35	0.0%	0.16	35	0.16	\$86,443.07	\$2,469.80	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	383	0.2%	1.81	383	1.81	\$53,586.20	\$139.91	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	2,815	1.3%	13.27	2,130	10.04	\$777,871.36	\$365.20	3.0%	24%	76%
<b>Preoperative evaluation</b>	<b>28,521</b>	<b>13.0%</b>	<b>134.43</b>	<b>22,850</b>	<b>107.70</b>	<b>\$10,124,330.00</b>	<b>\$443.08</b>	<b>39.3%</b>	<b>20%</b>	<b>80%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	23	0.0%	0.11	23	0.11	\$9,515.34	\$413.71	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	26,630	12.2%	125.52	20,978	98.88	\$8,709,997.05	\$415.20	33.8%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	1,868	0.9%	8.80	1,849	8.72	\$1,404,817.53	\$759.77	5.5%	1%	99%
<b>Routine FU/Monitoring</b>	<b>3,253</b>	<b>1.5%</b>	<b>15.33</b>	<b>225</b>	<b>1.06</b>	<b>\$402,854.00</b>	<b>\$1,790.46</b>	<b>1.6%</b>	<b>93%</b>	<b>7%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	1,819	0.8%	8.57	32	0.15	\$20,792.78	\$649.77	0.1%	98%	2%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	19	0.0%	0.09	16	0.08	\$12,480.39	\$780.02	0.0%	16%	84%
Don't perform routine annual stress testing after coronary artery revascularization.	328	0.1%	1.55	33	0.16	\$81,304.42	\$2,463.77	0.3%	90%	10%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	1,087	0.5%	5.12	144	0.68	\$288,276.55	\$2,001.92	1.1%	87%	13%
<b>Screening Tests</b>	<b>154,034</b>	<b>70.4%</b>	<b>726.02</b>	<b>23,096</b>	<b>108.86</b>	<b>\$5,402,624.00</b>	<b>\$233.92</b>	<b>21.0%</b>	<b>85%</b>	<b>15%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	3,516	1.6%	16.57	13	0.06	\$8,419.36	\$647.64	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	109,067	49.8%	514.07	3,651	17.21	\$1,695,020.57	\$464.26	6.6%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	146	0.1%	0.69	38	0.18	\$7,282.02	\$191.63	0.0%	74%	26%
Don't perform Pap smears on women younger than 21	123	0.1%	0.58	100	0.47	\$19,467.21	\$194.67	0.1%	19%	81%
Don't perform population based screening for 25-OH-Vitamin D deficiency	2,598	1.2%	12.25	2,598	12.25	\$314,508.54	\$121.06	1.2%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	7,028	3.2%	33.13	4,991	23.52	\$902,907.51	\$180.91	3.5%	29%	71%
Don't perform routine general health checks for asymptomatic adults	2,096	1.0%	9.88	2,096	9.88	\$332,117.57	\$158.45	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	1,152	0.5%	5.43	1,152	5.43	\$123,878.26	\$107.53	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	5,920	2.7%	27.90	764	3.60	\$145,220.65	\$190.08	0.6%	87%	13%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	6,774	3.1%	31.93	1,738	8.19	\$689,041.07	\$396.46	2.7%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	15,614	7.1%	73.59	5,955	28.07	\$1,164,761.27	\$195.59	4.5%	62%	38%
<b>Grand Total</b>	<b>218,933</b>	<b>100.0%</b>	<b>1031.91</b>	<b>65,405</b>	<b>308.28</b>	<b>\$25,752,227.67</b>	<b>\$393.73</b>	<b>100.0%</b>	<b>70%</b>	<b>30%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.





## 2013 ACO Rating 9 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>48,111</b>	<b>5.1%</b>	<b>48.77</b>	<b>46,207</b>	<b>46.84</b>	<b>\$5,812,525.00</b>	<b>\$125.79</b>	<b>5.2%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	37,159	4.0%	37.67	35,379	35.86	\$5,606,138.92	\$158.46	5.1%	5%	95%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	61	0.0%	0.06	52	0.05	\$2,223.05	\$42.75	0.0%	15%	85%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,048	0.1%	1.06	933	0.95	\$116,394.08	\$124.75	0.1%	11%	89%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$627.83	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	9,843	1.0%	9.98	9,843	9.98	\$87,141.14	\$8.85	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>76,210</b>	<b>8.1%</b>	<b>77.25</b>	<b>25,536</b>	<b>25.89</b>	<b>\$32,546,171.00</b>	<b>\$1,274.52</b>	<b>29.4%</b>	<b>66%</b>	<b>34%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	9,407	1.0%	9.54	8,170	8.28	\$3,347,271.96	\$409.70	3.0%	13%	87%
Don't do imaging for uncomplicated headache.	6,809	0.7%	6.90	2,062	2.09	\$2,487,414.99	\$1,206.31	2.2%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	560	0.1%	0.57	539	0.55	\$816,829.70	\$1,515.45	0.7%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,166	0.1%	1.18	422	0.43	\$2,200,955.81	\$5,215.54	2.0%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	*	*	*	*	*	\$912.47	*	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	31	0.0%	0.03	31	0.03	\$2,264.69	\$73.05	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	697	0.1%	0.71	303	0.31	\$308,085.28	\$1,016.78	0.3%	57%	43%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,713	0.2%	1.74	688	0.70	\$810,085.72	\$1,177.45	0.7%	60%	40%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	41,361	4.4%	41.93	5,207	5.28	\$12,044,707.83	\$2,313.18	10.9%	87%	13%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	4,036	0.4%	4.09	1,983	2.01	\$1,470,972.46	\$741.79	1.3%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	98	0.0%	0.10	98	0.10	\$253,516.97	\$2,586.91	0.2%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,518	0.4%	3.57	2,274	2.31	\$3,469,453.15	\$1,525.70	3.1%	35%	65%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,067.84	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	306	0.0%	0.31	287	0.29	\$541,627.48	\$1,887.20	0.5%	6%	94%
Don't perform computed tomography scans on children being treated for headache.	771	0.1%	0.78	319	0.32	\$233,320.82	\$731.41	0.2%	59%	41%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$6,511.42	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,737	0.6%	5.82	3,153	3.20	\$4,547,172.85	\$1,442.17	4.1%	45%	55%
<b>Disease Approach</b>	<b>17,635</b>	<b>1.9%</b>	<b>17.88</b>	<b>13,123</b>	<b>13.30</b>	<b>\$6,666,344.00</b>	<b>\$507.99</b>	<b>6.0%</b>	<b>26%</b>	<b>74%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	134	0.0%	0.14	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	110	0.0%	0.11	110	0.11	\$261,860.20	\$2,380.55	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	690	0.1%	0.70	690	0.70	\$173,508.21	\$251.46	0.2%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	16,701	1.8%	16.93	12,323	12.49	\$6,230,975.30	\$505.64	5.6%	26%	74%
<b>Preoperative evaluation</b>	<b>134,754</b>	<b>14.4%</b>	<b>136.60</b>	<b>108,290</b>	<b>109.77</b>	<b>\$37,045,784.00</b>	<b>\$342.10</b>	<b>33.4%</b>	<b>20%</b>	<b>80%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	87	0.0%	0.09	87	0.09	\$37,658.92	\$432.86	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	128,517	13.7%	130.28	102,118	103.52	\$34,504,158.43	\$337.89	31.1%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	6,150	0.7%	6.23	6,085	6.17	\$2,503,966.62	\$411.50	2.3%	1%	99%
<b>Routine FU/Monitoring</b>	<b>13,831</b>	<b>1.5%</b>	<b>14.02</b>	<b>1,985</b>	<b>2.01</b>	<b>\$3,239,283.00</b>	<b>\$1,631.88</b>	<b>2.9%</b>	<b>86%</b>	<b>14%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,211	0.7%	6.30	229	0.23	\$268,952.71	\$1,174.47	0.2%	96%	4%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	263	0.0%	0.27	242	0.25	\$178,478.58	\$737.51	0.2%	8%	92%
Don't perform routine annual stress testing after coronary artery revascularization.	1,592	0.2%	1.61	189	0.19	\$340,599.96	\$1,802.12	0.3%	88%	12%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,765	0.6%	5.84	1,325	1.34	\$2,451,251.60	\$1,850.00	2.2%	77%	23%
<b>Screening Tests</b>	<b>646,888</b>	<b>69.0%</b>	<b>655.74</b>	<b>110,183</b>	<b>111.69</b>	<b>\$25,539,804.00</b>	<b>\$231.79</b>	<b>23.0%</b>	<b>83%</b>	<b>17%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	18,256	1.9%	18.51	101	0.10	\$141,827.67	\$1,404.23	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	450,695	48.1%	456.87	14,219	14.41	\$6,192,130.49	\$435.48	5.6%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	920	0.1%	0.93	293	0.30	\$63,204.49	\$215.71	0.1%	68%	32%
Don't perform Pap smears on women younger than 21	1,338	0.1%	1.36	1,149	1.16	\$212,826.26	\$185.23	0.2%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	19,160	2.0%	19.42	19,160	19.42	\$2,222,945.13	\$116.02	2.0%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	36,046	3.8%	36.54	28,718	29.11	\$5,909,836.42	\$205.79	5.3%	20%	80%
Don't perform routine general health checks for asymptomatic adults	8,189	0.9%	8.30	8,189	8.30	\$1,485,137.87	\$181.36	1.3%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,133	0.5%	5.20	5,133	5.20	\$507,928.22	\$98.95	0.5%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	13,606	1.5%	13.79	1,586	1.61	\$403,274.41	\$254.27	0.4%	88%	12%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	31,262	3.3%	31.69	7,096	7.19	\$2,754,167.57	\$388.13	2.5%	77%	23%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	62,283	6.6%	63.14	24,539	24.87	\$5,646,525.06	\$230.10	5.1%	61%	39%
<b>Grand Total</b>	<b>937,463</b>	<b>100.0%</b>	<b>950.30</b>	<b>305,358</b>	<b>309.54</b>	<b>\$110,849,910.58</b>	<b>\$363.02</b>	<b>100.0%</b>	<b>67%</b>	<b>33%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 ACO Rating 10 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>75,777</b>	<b>5.1%</b>	<b>46.00</b>	<b>72,920</b>	<b>44.27</b>	<b>\$10,573,230.00</b>	<b>\$145.00</b>	<b>5.2%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	64,587	4.3%	39.21	61,913	37.59	\$10,282,964.60	\$166.09	5.1%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	118	0.0%	0.07	107	0.06	\$5,734.30	\$53.59	0.0%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,921	0.1%	1.17	1,749	1.06	\$227,194.14	\$129.90	0.1%	9%	91%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	21	0.0%	0.01	21	0.01	\$1,352.50	\$64.40	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	9,130	0.6%	5.54	9,130	5.54	\$55,984.80	\$6.13	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>108,536</b>	<b>7.3%</b>	<b>65.89</b>	<b>37,736</b>	<b>22.91</b>	<b>\$59,449,753.00</b>	<b>\$1,575.41</b>	<b>29.3%</b>	<b>65%</b>	<b>35%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	13,511	0.9%	8.20	11,785	7.15	\$5,329,389.69	\$452.22	2.6%	13%	87%
Don't do imaging for uncomplicated headache.	9,935	0.7%	6.03	3,990	2.42	\$4,432,314.39	\$1,110.86	2.2%	60%	40%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	795	0.1%	0.48	767	0.47	\$1,113,784.83	\$1,452.13	0.5%	4%	96%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	1,098	0.1%	0.67	420	0.25	\$1,727,024.57	\$4,111.96	0.8%	62%	38%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	17	0.0%	0.01	17	0.01	\$491.02	\$28.88	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$43.63	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	1,433	0.1%	0.87	872	0.53	\$970,295.99	\$1,112.72	0.5%	39%	61%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	2,582	0.2%	1.57	1,001	0.61	\$1,402,760.52	\$1,401.36	0.7%	61%	39%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	57,572	3.9%	34.95	7,983	4.85	\$29,367,650.32	\$3,678.77	14.4%	86%	14%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	8,745	0.6%	5.31	4,069	2.47	\$2,760,284.00	\$678.37	1.4%	53%	47%
Don't routinely do diagnostic testing in patients with chronic urticaria.	287	0.0%	0.17	287	0.17	\$275,281.13	\$959.17	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	3,976	0.3%	2.41	1,828	1.11	\$4,649,110.51	\$2,543.28	2.3%	54%	46%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	11	0.0%	0.01	11	0.01	\$16,560.18	\$1,505.47	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	390	0.0%	0.24	361	0.22	\$752,742.52	\$2,085.16	0.4%	7%	93%
Don't perform computed tomography scans on children being treated for headache.	1,045	0.1%	0.63	447	0.27	\$379,591.18	\$849.20	0.2%	57%	43%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	18	0.0%	0.01	18	0.01	\$31,521.84	\$1,751.21	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	7,121	0.5%	4.32	3,880	2.36	\$6,240,906.93	\$1,608.48	3.1%	46%	54%
<b>Disease Approach</b>	<b>12,221</b>	<b>0.8%</b>	<b>7.42</b>	<b>10,262</b>	<b>6.23</b>	<b>\$6,584,590.00</b>	<b>\$641.65</b>	<b>3.2%</b>	<b>16%</b>	<b>84%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	131	0.0%	0.08	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	233	0.0%	0.14	233	0.14	\$515,305.06	\$2,211.61	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	839	0.1%	0.51	839	0.51	\$228,692.75	\$272.58	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	11,018	0.7%	6.69	9,190	5.58	\$5,840,592.66	\$635.54	2.9%	17%	83%
<b>Preoperative evaluation</b>	<b>163,261</b>	<b>11.0%</b>	<b>99.12</b>	<b>136,060</b>	<b>82.60</b>	<b>\$44,522,722.00</b>	<b>\$327.23</b>	<b>21.9%</b>	<b>17%</b>	<b>83%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	267	0.0%	0.16	267	0.16	\$150,879.46	\$565.09	0.1%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	151,642	10.2%	92.06	124,543	75.61	\$40,267,234.81	\$323.32	19.8%	18%	82%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	11,352	0.8%	6.89	11,250	6.83	\$4,104,608.16	\$364.85	2.0%	1%	99%
<b>Routine FU/Monitoring</b>	<b>19,090</b>	<b>1.3%</b>	<b>11.59</b>	<b>3,351</b>	<b>2.03</b>	<b>\$4,138,039.00</b>	<b>\$1,234.87</b>	<b>2.0%</b>	<b>82%</b>	<b>18%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	9,589	0.6%	5.82	280	0.17	\$432,987.90	\$1,546.39	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	220	0.0%	0.13	202	0.12	\$150,638.61	\$745.74	0.1%	8%	92%
Don't perform routine annual stress testing after coronary artery revascularization.	2,161	0.1%	1.31	493	0.30	\$521,922.42	\$1,058.67	0.3%	77%	23%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	7,120	0.5%	4.32	2,376	1.44	\$3,032,490.01	\$1,276.30	1.5%	67%	33%
<b>Screening Tests</b>	<b>1,106,218</b>	<b>74.5%</b>	<b>671.59</b>	<b>342,768</b>	<b>208.10</b>	<b>\$77,971,316.00</b>	<b>\$227.48</b>	<b>38.4%</b>	<b>69%</b>	<b>31%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	23,252	1.6%	14.12	335	0.20	\$173,491.37	\$517.88	0.1%	99%	1%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	690,937	46.5%	419.47	68,392	41.52	\$24,933,314.62	\$364.56	12.3%	90%	10%
Don't perform Pap smears on women with previous hysterectomy	1,146	0.1%	0.70	413	0.25	\$90,826.97	\$219.92	0.0%	64%	36%
Don't perform Pap smears on women younger than 21	1,789	0.1%	1.09	1,568	0.95	\$317,826.13	\$202.70	0.2%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	91,106	6.1%	55.31	91,106	55.31	\$11,873,626.72	\$130.33	5.8%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	91,154	6.1%	55.34	75,744	45.98	\$16,827,067.73	\$222.16	8.3%	17%	83%
Don't perform routine general health checks for asymptomatic adults	37,132	2.5%	22.54	37,132	22.54	\$7,770,628.71	\$209.27	3.8%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	8,228	0.6%	5.00	8,228	5.00	\$776,892.17	\$94.42	0.4%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	21,477	1.4%	13.04	4,790	2.91	\$1,184,335.30	\$247.25	0.6%	78%	22%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	43,580	2.9%	26.46	11,218	6.81	\$3,174,840.30	\$283.01	1.6%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	96,417	6.5%	58.54	43,842	26.62	\$10,848,466.21	\$247.44	5.3%	55%	45%
<b>Grand Total</b>	<b>1,485,105</b>	<b>100.0%</b>	<b>901.62</b>	<b>603,099</b>	<b>366.15</b>	<b>\$203,239,651.66</b>	<b>\$336.99</b>	<b>100.0%</b>	<b>59%</b>	<b>41%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful



## 2013 ACO Rating 11 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>3,465</b>	<b>5.4%</b>	<b>50.77</b>	<b>3,349</b>	<b>49.07</b>	<b>\$473,781.00</b>	<b>\$141.47</b>	<b>5.0%</b>	<b>3%</b>	<b>97%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	3,138	4.9%	45.98	3,028	44.37	\$444,578.70	\$146.82	4.7%	4%	96%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	*	*	*	*	*	\$322.23	*	0.0%	0%	100%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	83	0.1%	1.22	77	1.13	\$27,238.42	\$353.75	0.3%	7%	93%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	*	*	*	*	*	\$365.14	*	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	244	0.4%	3.58	244	3.58	\$1,276.42	\$5.23	0.0%	0%	100%
<b>Diagnostic Testing</b>	<b>5,540</b>	<b>8.6%</b>	<b>81.17</b>	<b>1,536</b>	<b>22.51</b>	<b>\$4,028,784.00</b>	<b>\$2,622.91</b>	<b>42.5%</b>	<b>72%</b>	<b>28%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	569	0.9%	8.34	450	6.59	\$205,610.52	\$456.91	2.2%	21%	79%
Don't do imaging for uncomplicated headache.	402	0.6%	5.89	151	2.21	\$214,486.35	\$1,420.44	2.3%	62%	38%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	65	0.1%	0.95	63	0.92	\$95,570.01	\$1,516.98	1.0%	3%	97%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	49	0.1%	0.72	18	0.26	\$86,015.16	\$4,778.62	0.9%	63%	37%
Don't perform a postcoital test (PCT) for the evaluation of infertility.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.**	0	0.0%	0.00	0	0.00	\$0.00	\$0.00	0.0%	0%	0%
Don't perform electroencephalography (EEG) for headaches.	34	0.1%	0.50	12	0.18	\$12,646.97	\$1,053.91	0.1%	65%	35%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	138	0.2%	2.02	64	0.94	\$97,732.84	\$1,527.08	1.0%	54%	46%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	3,594	5.6%	52.66	412	6.04	\$2,533,046.56	\$6,148.17	26.7%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	179	0.3%	2.62	99	1.45	\$59,563.24	\$601.65	0.6%	45%	55%
Don't routinely do diagnostic testing in patients with chronic urticaria.	*	*	*	*	*	\$9,146.90	*	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	246	0.4%	3.60	113	1.66	\$476,460.26	\$4,216.46	5.0%	54%	46%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$2,708.12	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	21	0.0%	0.31	19	0.28	\$30,675.07	\$1,614.48	0.3%	10%	90%
Don't perform computed tomography scans on children being treated for headache.	36	0.1%	0.53	22	0.32	\$13,100.46	\$595.48	0.1%	39%	61%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$3,395.95	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	207	0.3%	3.03	113	1.66	\$188,625.56	\$1,669.25	2.0%	45%	55%
<b>Disease Approach</b>	<b>457</b>	<b>0.7%</b>	<b>6.70</b>	<b>379</b>	<b>5.55</b>	<b>\$205,888.00</b>	<b>\$543.24</b>	<b>2.2%</b>	<b>17%</b>	<b>83%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	*	*	*	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	15	0.0%	0.22	15	0.22	\$30,441.44	\$2,029.43	0.3%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	48	0.1%	0.70	48	0.70	\$4,514.19	\$94.05	0.0%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	394	0.6%	5.77	316	4.63	\$170,932.23	\$540.92	1.8%	20%	80%
<b>Preoperative evaluation</b>	<b>7,790</b>	<b>12.1%</b>	<b>114.14</b>	<b>6,248</b>	<b>91.55</b>	<b>\$2,432,634.00</b>	<b>\$389.35</b>	<b>25.7%</b>	<b>20%</b>	<b>80%</b>

Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	*	*	*	*	*	\$82.12	*	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	7,352	11.4%	107.72	5,815	85.20	\$2,229,147.58	\$383.34	23.5%	21%	79%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	438	0.7%	6.42	433	6.34	\$203,404.61	\$469.76	2.1%	1%	99%
<b>Routine FU/Monitoring</b>	<b>1,100</b>	<b>1.7%</b>	<b>16.12</b>	<b>185</b>	<b>2.71</b>	<b>\$455,888.00</b>	<b>\$2,464.26</b>	<b>4.8%</b>	<b>83%</b>	<b>17%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	432	0.7%	6.33	13	0.19	\$59,841.08	\$4,603.16	0.6%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	19	0.0%	0.28	14	0.21	\$11,107.19	\$793.37	0.1%	26%	74%
Don't perform routine annual stress testing after coronary artery revascularization.	130	0.2%	1.90	17	0.25	\$17,893.63	\$1,052.57	0.2%	87%	13%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	519	0.8%	7.60	141	2.07	\$367,045.90	\$2,603.16	3.9%	73%	27%
<b>Screening Tests</b>	<b>46,225</b>	<b>71.6%</b>	<b>677.30</b>	<b>7,325</b>	<b>107.33</b>	<b>\$1,882,606.00</b>	<b>\$257.01</b>	<b>19.9%</b>	<b>84%</b>	<b>16%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	1,296	2.0%	18.99	*	*	\$1,873.92	*	0.0%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	34,197	52.9%	501.06	1,108	16.23	\$657,613.80	\$593.51	6.9%	97%	3%
Don't perform Pap smears on women with previous hysterectomy	36	0.1%	0.53	*	*	\$1,857.96	*	0.0%	72%	28%
Don't perform Pap smears on women younger than 21	52	0.1%	0.76	46	0.67	\$8,255.20	\$179.46	0.1%	12%	88%
Don't perform population based screening for 25-OH-Vitamin D deficiency	1,211	1.9%	17.74	1,211	17.74	\$200,163.95	\$165.29	2.1%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	2,022	3.1%	29.63	1,665	24.40	\$324,785.71	\$195.07	3.4%	18%	82%
Don't perform routine general health checks for asymptomatic adults	977	1.5%	14.32	977	14.32	\$165,349.59	\$169.24	1.7%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	341	0.5%	5.00	341	5.00	\$25,048.27	\$73.46	0.3%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	816	1.3%	11.96	152	2.23	\$39,324.52	\$258.71	0.4%	81%	19%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	1,265	2.0%	18.54	316	4.63	\$161,689.02	\$511.67	1.7%	75%	25%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	4,012	6.2%	58.78	1,509	22.11	\$296,643.86	\$196.58	3.1%	62%	38%
<b>Grand Total</b>	<b>64,603</b>	<b>100.0%</b>	<b>946.58</b>	<b>19,058</b>	<b>279.24</b>	<b>\$9,479,580.65</b>	<b>\$497.41</b>	<b>100.0%</b>	<b>70%</b>	<b>30%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful

\*\* No services were available for analysis.



## 2013 ACO Rating 12 Wasteful Services- Overall

Waste Measure Rule	Total Services Measured	Percent of all Services	Services Measured per 1000	Total Wasteful Results					Quality Index	Waste Index
				Services	Wasteful Services per 1000	Total Proxy Allowed Costs	Average Proxy Allowed Costs	Percent of Waste Proxy Allowed Costs		
<b>Common Treatments</b>	<b>45,624</b>	<b>5.3%</b>	<b>58.69</b>	<b>43,668</b>	<b>56.18</b>	<b>\$4,105,757.00</b>	<b>\$94.02</b>	<b>4.0%</b>	<b>4%</b>	<b>96%</b>
Don't indiscriminately prescribe antibiotics for uncomplicated acute rhinosinusitis.	32,116	3.7%	41.32	30,299	38.98	\$3,891,342.68	\$128.43	3.8%	6%	94%
Don't order antibiotics for adenoviral conjunctivitis (pink eye).	42	0.0%	0.05	40	0.05	\$2,216.72	\$55.42	0.0%	5%	95%
Don't prescribe oral antibiotics for uncomplicated acute external otitis.	1,082	0.1%	1.39	945	1.22	\$129,825.00	\$137.38	0.1%	13%	87%
Don't prescribe oral antibiotics for uncomplicated acute tympanostomy tube otorrhea.	22	0.0%	0.03	22	0.03	\$1,068.46	\$48.57	0.0%	0%	100%
Don't prescribe or recommend cough and cold medicines for respiratory illnesses in children under four years of age.	12,362	1.4%	15.90	12,362	15.90	\$81,304.30	\$6.58	0.1%	0%	100%
<b>Diagnostic Testing</b>	<b>77,455</b>	<b>8.9%</b>	<b>99.64</b>	<b>21,356</b>	<b>27.47</b>	<b>\$33,123,796.00</b>	<b>\$1,551.03</b>	<b>32.2%</b>	<b>72%</b>	<b>28%</b>
Don't do imaging for low back pain within the first six weeks, unless red flags are present.	7,155	0.8%	9.20	6,136	7.89	\$2,374,887.28	\$387.04	2.3%	14%	86%
Don't do imaging for uncomplicated headache.	5,499	0.6%	7.07	1,652	2.13	\$1,416,649.76	\$857.54	1.4%	70%	30%
Don't obtain brain imaging studies (CT or MRI) in the evaluation of simple syncope and a normal neurological examination.	592	0.1%	0.76	565	0.73	\$649,470.17	\$1,149.50	0.6%	5%	95%
Don't order computed tomography (CT) scan of the head/brain for sudden hearing loss.	771	0.1%	0.99	277	0.36	\$980,677.25	\$3,540.35	1.0%	64%	36%
Don't perform a postcoital test (PCT) for the evaluation of infertility.	15	0.0%	0.02	15	0.02	\$645.79	\$43.05	0.0%	0%	100%
Don't perform advanced sperm function testing, such as sperm penetration or hemizona assays, in the initial evaluation of the infertile couple.	*	*	*	*	*	\$611.27	*	0.0%	0%	100%
Don't perform electroencephalography (EEG) for headaches.	627	0.1%	0.81	334	0.43	\$300,343.38	\$899.23	0.3%	47%	53%
Don't perform imaging of the carotid arteries for simple syncope without other neurologic symptoms.	1,915	0.2%	2.46	732	0.94	\$1,035,982.13	\$1,415.28	1.0%	62%	38%
Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.	48,379	5.6%	62.24	5,131	6.60	\$17,569,894.83	\$3,424.26	17.1%	89%	11%
Don't perform unproven diagnostic tests, such as immunoglobulin G (IgG) testing or an indiscriminate battery of immunoglobulin E (IgE) tests, in the evaluation of allergy.	2,872	0.3%	3.69	1,409	1.81	\$1,049,841.92	\$745.10	1.0%	51%	49%
Don't routinely do diagnostic testing in patients with chronic urticaria.	97	0.0%	0.12	97	0.12	\$75,877.54	\$782.24	0.1%	0%	100%
Don't routinely obtain radiographic imaging for patients who meet diagnostic criteria for uncomplicated acute rhinosinusitis.	2,923	0.3%	3.76	1,507	1.94	\$3,340,966.20	\$2,216.96	3.2%	48%	52%
Don't use coronary artery calcium scoring for patients with known coronary artery disease (including stents and bypass grafts).	*	*	*	*	*	\$5,162.09	*	0.0%	0%	100%
Don't order CT scans of the abdomen and pelvis in young otherwise healthy emergency department patients (age <50) with known histories of kidney stones, or ureterolithiasis, presenting with symptoms consistent with uncomplicated renal colic.	508	0.1%	0.65	472	0.61	\$624,238.53	\$1,322.54	0.6%	7%	93%
Don't perform computed tomography scans on children being treated for headache.	781	0.1%	1.00	316	0.41	\$169,572.21	\$536.62	0.2%	60%	40%
Don't perform Neuroimaging (CT, MRI) in a child with simple febrile seizure.	*	*	*	*	*	\$14,390.70	*	0.0%	0%	100%
Don't perform routine head CT scans for emergency room visits for severe dizziness.	5,321	0.6%	6.85	2,713	3.49	\$3,514,585.08	\$1,295.46	3.4%	49%	51%
<b>Disease Approach</b>	<b>13,841</b>	<b>1.6%</b>	<b>17.81</b>	<b>10,309</b>	<b>13.26</b>	<b>\$3,609,701.00</b>	<b>\$350.15</b>	<b>3.5%</b>	<b>26%</b>	<b>74%</b>
Don't schedule elective, non-medically indicated inductions of labor or Cesarean deliveries before 39 weeks, 0 days gestational age.	54	0.0%	0.07	0	0.00	\$0.00	\$0.00	0.0%	100%	0%
Don't perform an arthroscopic knee surgery for knee osteoarthritis.	93	0.0%	0.12	93	0.12	\$162,434.13	\$1,746.60	0.2%	0%	100%
Don't prescribe antidepressants as monotherapy in patients with bipolar I disorder.	880	0.1%	1.13	880	1.13	\$101,006.18	\$114.78	0.1%	0%	100%
Don't prescribe nonsteroidal anti-inflammatory drugs (NSAIDs) in individuals with hypertension or heart failure or CKD of all causes, including diabetes.	12,814	1.5%	16.48	9,336	12.01	\$3,346,260.35	\$358.43	3.3%	27%	73%
<b>Preoperative evaluation</b>	<b>112,614</b>	<b>13.0%</b>	<b>144.87</b>	<b>89,292</b>	<b>114.87</b>	<b>\$40,521,031.00</b>	<b>\$453.80</b>	<b>39.4%</b>	<b>21%</b>	<b>79%</b>



Don't obtain baseline diagnostic cardiac testing or cardiac stress testing in asymptomatic stable patients with known cardiac disease undergoing low or moderate risk non-cardiac surgery.	45	0.0%	0.06	45	0.06	\$19,088.80	\$424.20	0.0%	0%	100%
Don't obtain baseline laboratory studies in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery	107,738	12.4%	138.60	84,459	108.65	\$37,648,040.22	\$445.76	36.6%	22%	78%
Don't obtain EKG, chest X rays or Pulmonary function test in patients without significant systemic disease (ASA I or II) undergoing low-risk surgery.	4,831	0.6%	6.21	4,788	6.16	\$2,853,902.12	\$596.05	2.8%	1%	99%
<b>Routine FU/Monitoring</b>	<b>14,664</b>	<b>1.7%</b>	<b>18.86</b>	<b>1,729</b>	<b>2.22</b>	<b>\$2,454,699.00</b>	<b>\$1,419.72</b>	<b>2.4%</b>	<b>88%</b>	<b>12%</b>
Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.	6,984	0.8%	8.98	178	0.23	\$166,848.69	\$937.35	0.2%	97%	3%
Don't perform MRI of the peripheral joints to routinely monitor inflammatory arthritis.	172	0.0%	0.22	161	0.21	\$126,434.43	\$785.31	0.1%	6%	94%
Don't perform routine annual stress testing after coronary artery revascularization.	1,609	0.2%	2.07	218	0.28	\$303,119.58	\$1,390.46	0.3%	86%	14%
Don't perform radionuclide imaging as part of routine follow-up in asymptomatic patients	5,899	0.7%	7.59	1,172	1.51	\$1,858,296.36	\$1,585.58	1.8%	80%	20%
<b>Screening Tests</b>	<b>603,934</b>	<b>69.6%</b>	<b>776.94</b>	<b>78,622</b>	<b>101.14</b>	<b>\$19,090,748.00</b>	<b>\$242.82</b>	<b>18.6%</b>	<b>87%</b>	<b>13%</b>
Don't obtain screening exercise electrocardiogram testing in individuals who are asymptomatic and at low risk for coronary heart disease.	15,791	1.8%	20.31	61	0.08	\$131,170.30	\$2,150.33	0.1%	100%	0%
Don't order annual electrocardiograms (EKGs) or any other cardiac screening for low-risk patients without symptoms.	450,191	51.9%	579.16	9,955	12.81	\$5,315,088.16	\$533.91	5.2%	98%	2%
Don't perform Pap smears on women with previous hysterectomy	631	0.1%	0.81	187	0.24	\$33,893.46	\$181.25	0.0%	70%	30%
Don't perform Pap smears on women younger than 21	1,130	0.1%	1.45	967	1.24	\$153,883.91	\$159.14	0.1%	14%	86%
Don't perform population based screening for 25-OH-Vitamin D deficiency	12,731	1.5%	16.38	12,731	16.38	\$1,999,389.44	\$157.05	1.9%	0%	100%
Don't perform routine annual cervical cytology screening (Pap tests) in women 21–65 years of age.	20,852	2.4%	26.83	15,965	20.54	\$2,755,161.13	\$172.58	2.7%	23%	77%
Don't perform routine general health checks for asymptomatic adults	5,766	0.7%	7.42	5,766	7.42	\$894,385.62	\$155.11	0.9%	0%	100%
Don't screen women older than 65 years of age for cervical cancer who have had adequate prior screening and are not otherwise at high risk for cervical cancer.	5,592	0.6%	7.19	5,592	7.19	\$574,490.09	\$102.73	0.6%	0%	100%
Don't use dual-energy x-ray absorptiometry (DEXA) screening for osteoporosis in women younger than 65 or men younger than 70 with no risk factors.	10,450	1.2%	13.44	1,261	1.62	\$314,327.00	\$249.27	0.3%	88%	12%
Don't order unnecessary screening for colorectal cancer in adults older than age 50 years.	22,021	2.5%	28.33	5,820	7.49	\$2,395,226.08	\$411.55	2.3%	74%	26%
Don't perform PSA-based screening for prostate cancer in all men regardless of age.	58,779	6.8%	75.62	20,317	26.14	\$4,523,733.15	\$222.66	4.4%	65%	35%
<b>Grand Total</b>	<b>868,151</b>	<b>100.0%</b>	<b>1116.85</b>	<b>244,995</b>	<b>315.18</b>	<b>\$102,905,732.49</b>	<b>\$420.03</b>	<b>100.0%</b>	<b>72%</b>	<b>28%</b>

Report based on APCD claims data for Commercial, Medicaid FFS, Medicaid Managed Care, Medicare FFS and Medicare Advantage coverage.

\* Indicates observed values less than 11. Suppressed values are still reflected in total and index calculations.

All reports utilize a standardized proxy reimbursement amount and are based on Virginia APCD claims volumes as of 1/15/16.

Services defined as wasteful or necessary are subject to the completeness of diagnosis and procedure fields submitted within the claims data analyzed.

Total Wasteful services reported include a combination of services categorized as wasteful and likely wasteful