Virginia Health Information

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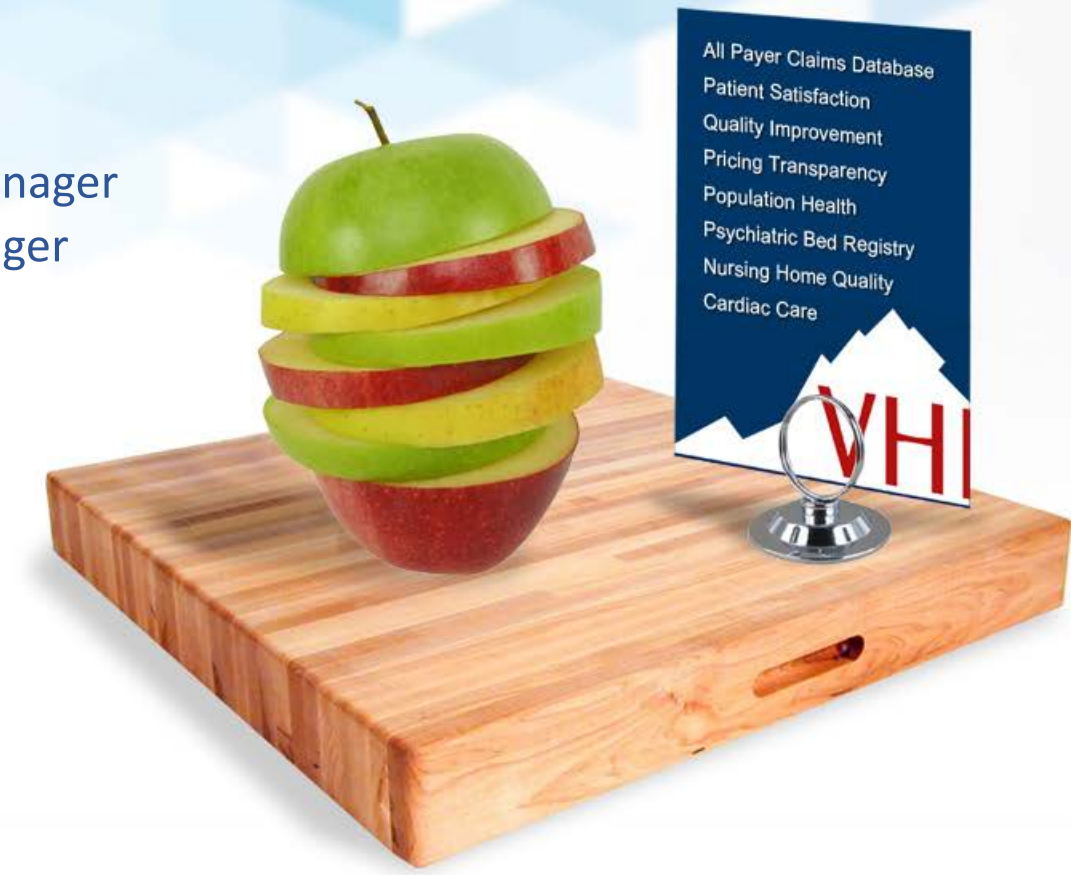
- Kyle Russell, APCD Program Manager

December 12, 2016



FROM NUMBERS TO KNOWLEDGE
VHI
VIRGINIA HEALTH INFORMATION

VHI Represents all Health Care Stakeholders

- VHI is an independent, nonprofit, 501(c)(3) health information organization established in 1993
- Formed as a public/private partnership to administer Virginia Health Care Data Reporting Initiatives
- Today's Presentation
  - Publicly Available Datasets
    - PLD
    - EPICS and ALSD
    - APCD

PLD (Patient Level Database)
http://vhi.org/pld.asp

Data Source
- Hospitals submit inpatient discharge records

Funded
- VDH contract $247,313 General Funds
- VHI licenses data and reports to generate over $320,000

Contains
- Patient demographics (age, race, location, payer)
- Clinical (diagnoses and procedures, comorbidities)
- Provider (hospital, physicians)
- Charges (total charges and 14 calculated groupings; not costs or reimbursement)

Does Not Contain
- No patient identifiers
- No Federal facilities
- No Emergency Room or Outpatient data
- No Physician Office data

PLD Report Examples

Service Line	Total Cases	Mortality Rating	Readmission Rating
Cardiology Medical	2235	♥♥♡	♥♥♡
- Heart Failure	695	♥♥♡	♥♥♡
Invasive Cardiology	1077	♥♥♡	♥♥♡
- Cardiac Cath	347	♥♥♡	♥♥♡
- Percutaneous Cardiovascular Proc.	527	♥♥♡	♥♥♡
Open Heart Surgery	359	♥♥♡	♥♥♥
- CABG	243	♥♥♡	♥♥♡

PLD Report Examples

Service Line		Number of Cases	% of Hospital Total
Burns	279	305	1.13%
Invasive Cardiology	1,011	61	1,072	3.98%
Cardiology - Medical	1,165	118	1,283	4.77%
Open Heart Surgery	219	11	230	0.85%
Dental	27	4	31	0.12%
Dermatology	149	34	183	0.68%
Endocrinology	505	31	536	1.99%
Ear, Nose and Throat (ENT) Surgery	206	14	220	0.82%
Gastroenterology	1,643	132	1,775	6.60%
General Medicine	969	89	1,058	3.93%
General Surgery				
Gynecological Surgery				
Gynecology				
Hematology				
Infectious Diseases				

Free information for Consumers…

Greater level of detail information provided in custom reports or datasets…

Service Line Description	Total Discharges	Total Charges	Avg Charges	Avg LOS	Charity Discharges	Charity Total Charges	Charity Avg Charges	Charity Avg LOS	Commercial Discharges	Commercial Total Charges	Commercial Avg Charges	Commercial Avg LOS
Burns	305	$ 16,995,004	$ 55,721	6.68	34	$ 2,661,783	$ 78,288	8.26	89	$ 4,953,519	$ 55,658	6.35
Cardiology - Invasive	1,072	$ 121,820,115	$ 113,638	6.69	150	$ 13,018,655	$ 86,791	5.71	193	$ 24,112,742	$ 124,936	6.84
Cardiology - Medical	1,283	$ 59,177,239	$ 46,124	5.01	166	$ 5,853,506	$ 35,262	3.83	196	$ 7,986,265	$ 40,746	4.31
Cardiology - Open Heart	230	$ 60,081,091	$ 261,222	11.48	26	$ 6,636,628	$ 255,255	10.85	75	$ 17,159,881	$ 228,798	9.64
Dental	31	$ 1,243,409	$ 40,110	3.87	8	$ 307,385	$ 38,423	2.50	12	$ 435,705	$ 36,309	4.25
Dermatology	183	$ 6,686,601	$ 36,539	3.11	37	$ 1,112,818	$ 30,076	2.68	42	$ 1,188,035	$ 28,287	2.21
Endocrinology	536	$ 16,821,797	$ 31,384	4.02	78	$ 2,563,392	$ 32,864	3.73	120	$ 4,126,388	$ 34,387	4.15
ENT Surgery	220	$ 44,920,375	$ 204,184	12.60	19	$ 1,960,595	$ 103,189	7.37	73	$ 11,933,247	$ 163,469	9.04
Gastroenterology	1,775	$ 76,350,180	$ 43,014	5.18	292	$ 11,443,371	$ 39,190	4.46	434	$ 18,872,180	$ 43,484	5.31
General Medicine	1,058	$ 38,505,082	$ 36,394	4.10	159	$ 5,705,070	$ 35,881	3.60	247	$ 8,827,356	$ 35,738	4.08
General Surgery	1,481	$ 290,394,118	$ 196,080	11.76	216	$ 27,154,909	$ 125,717	8.41	517	$ 92,963,493	$ 179,813	10.26
Gynecological Surg	166	$ 9,588,137	$ 57,760	3.34	68	$ 3,318,051	$ 48,795	2.68	45	$ 2,474,826	$ 54,996	3.60
Gynecology	51	$ 1,199,138	$ 23,513	2.98	10	$ 262,245	$ 26,225	3.00	12	$ 135,944	$ 11,329	2.08
Hematology	730	$ 29,863,757	$ 40,909	5.75	48	$ 2,154,113	$ 44,877	5.46	193	$ 6,883,021	$ 35,663	5.11
Infectious Disease	1,315	$ 112,487,544	$ 85,542	8.47	156	$ 11,388,900	$ 73,006	7.12	299	$ 24,820,198	$ 83,011	7.72

EPICS (Efficiency and Productivity Information Collection System)

Data Source

- Hospitals, ASCs, Nursing Homes submit electronic annual filing

Funded

- VDH contract $394,960 special dedicated revenue paid by provider fees

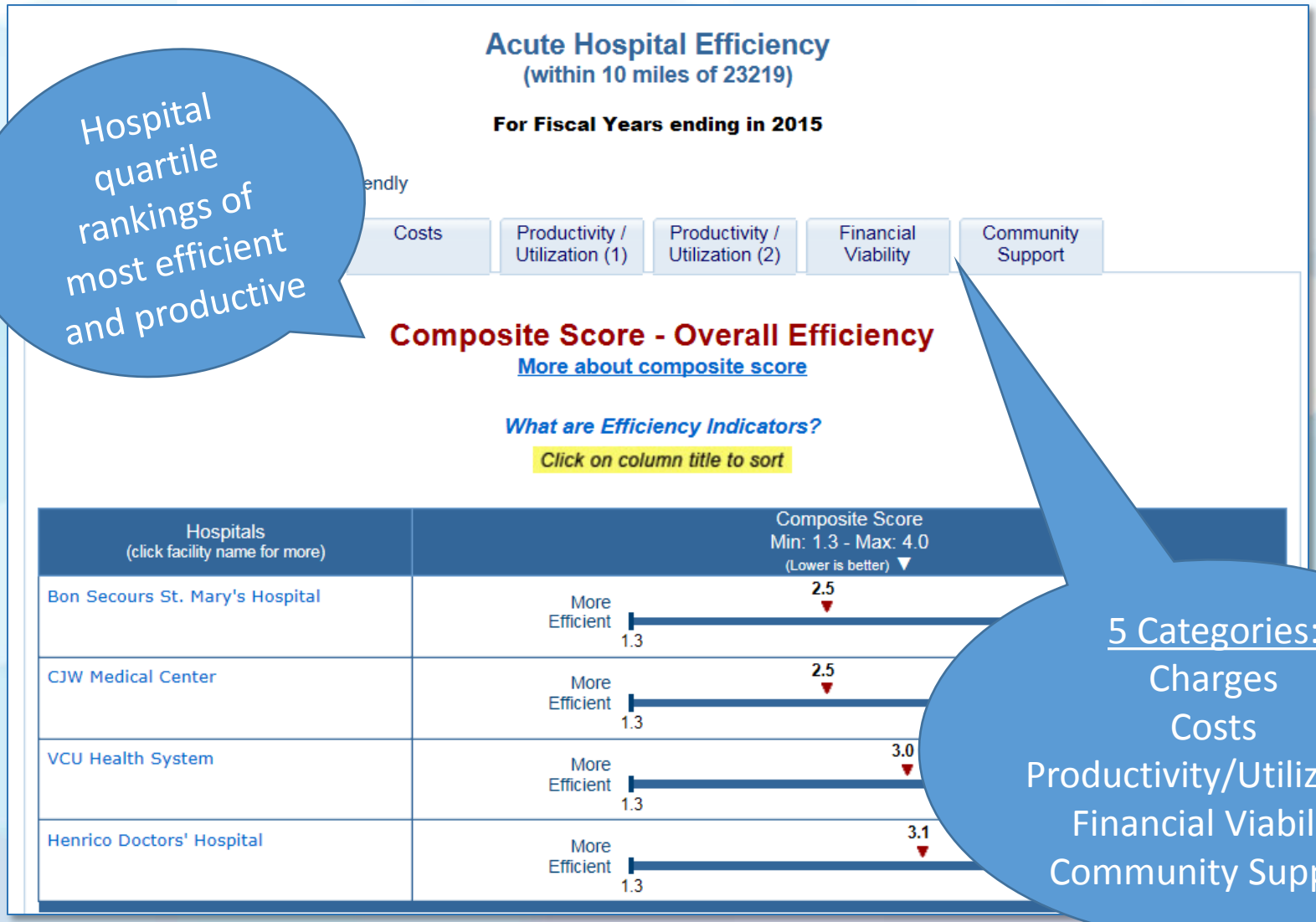
Contains

- Revenues (revenue, contractual allowances, charity care)
- Expenses (labor, capital, taxes, bad debt)
- Assets and Liabilities

Does Not Contain

- No patient or clinical detail
- No Federal facilities
- No parent company or subsidiary data
- No $ from Freestanding Imaging Centers and/or Physician Offices
- No $ from CCRCs

EPICS Efficiency Report Examples
http://www.vhi.org/efficiency_compare.asp



Hospital quartile rankings of most efficient and productive

5 Categories:
Charges
Costs
Productivity/Utilization
Financial Viability
Community Support

EPICS Financial Report Examples

Individual Hospital Financial Overview

Regional Rural Hospital Margin Trend Analysis

Rural Hospitals in Southwestern VA	EBITDA Margin	2015 Operating Margin	2014 Operating Margin	Operating Margin Variance	2015 M	2014 Total Margin	Total Margin Variance
Buchanan General Hospital	5.6%	-0.2%	0.2%	-0.4%	1.3%	4.2%	-2.9%
Carilion Tazewell Community Hospital	-4.3%	-9.8%	-7.9%	-1.8%	-9.8%	-7.9%	-1.8%
Clinch Valley Medical Center	16.2%	7.9%	14.7%	-6.8%	7.9%	14.7%	-6.8%
Dickenson Community Hospital and Green Oak Behavioral Health	-30.2%	-33.7%	11.4%	-45.2%	-33.4%	11.5%	-44.9%
LewisGale Hospital - Alleghany	5.2%	5.0%	-1.0%	6.0%	5.0%	-1.0%	6.0%
LewisGale Hospital Pulaski	3.0%	0.5%	-0.4%	0.9%	0.5%	-0.4%	0.9%
Memorial Hospital of Martinsville & Henry County	13.7%	4.3%	4.2%	0.1%	4.3%	4.2%	0.1%
Norton Community Hospital	21.5%	14.1%	9.5%	4.5%	15.6%	10.8%	4.8%
Pioneer Community Hospital of Patrick	1.4%	-7.4%	4.3%	-11.7%	-7.4%	4.3%	-11.7%
Russell County Medical Center	-15.3%	-29.0%	-14.4%	-14.6%	-29.2%	-14.7%	-14.4%
Smyth County Community Hospital	3.9%	-8.2%	-13.1%	4.9%	-3.9%	-10.2%	6.3%
Twin County Regional Hospital	14.3%	8.3%	2.7%	5.6%	8.3%	2.7%	5.6%

2016 Review of Hospital EPICS and Financial Data

A Transparency Collaboration

- **Review/Revise Current Data Fields**
  - Align financial fields collected
  - Expand Medicaid DSH payment information collected
- **Expand Collection of Financial Data** by adding Parent Companies and Subsidiaries
- **Review/Revise Indicators** for Charity Care, Bad Debt and Taxes as well as Cash Debt Coverage

Task Force Recommendations to VHI BOD for approval

Revisions planned for implementation during 2017

Annual Licensure Survey Data

http://www.vhi.org/alsd.asp

Data Source

- Hospitals, ASCs, Nursing Homes, Freestanding entities subject to CON reviews, CCRCs with SNF beds submit utilization data

Funded

- VDH, OLC contract $17,000 ALSD

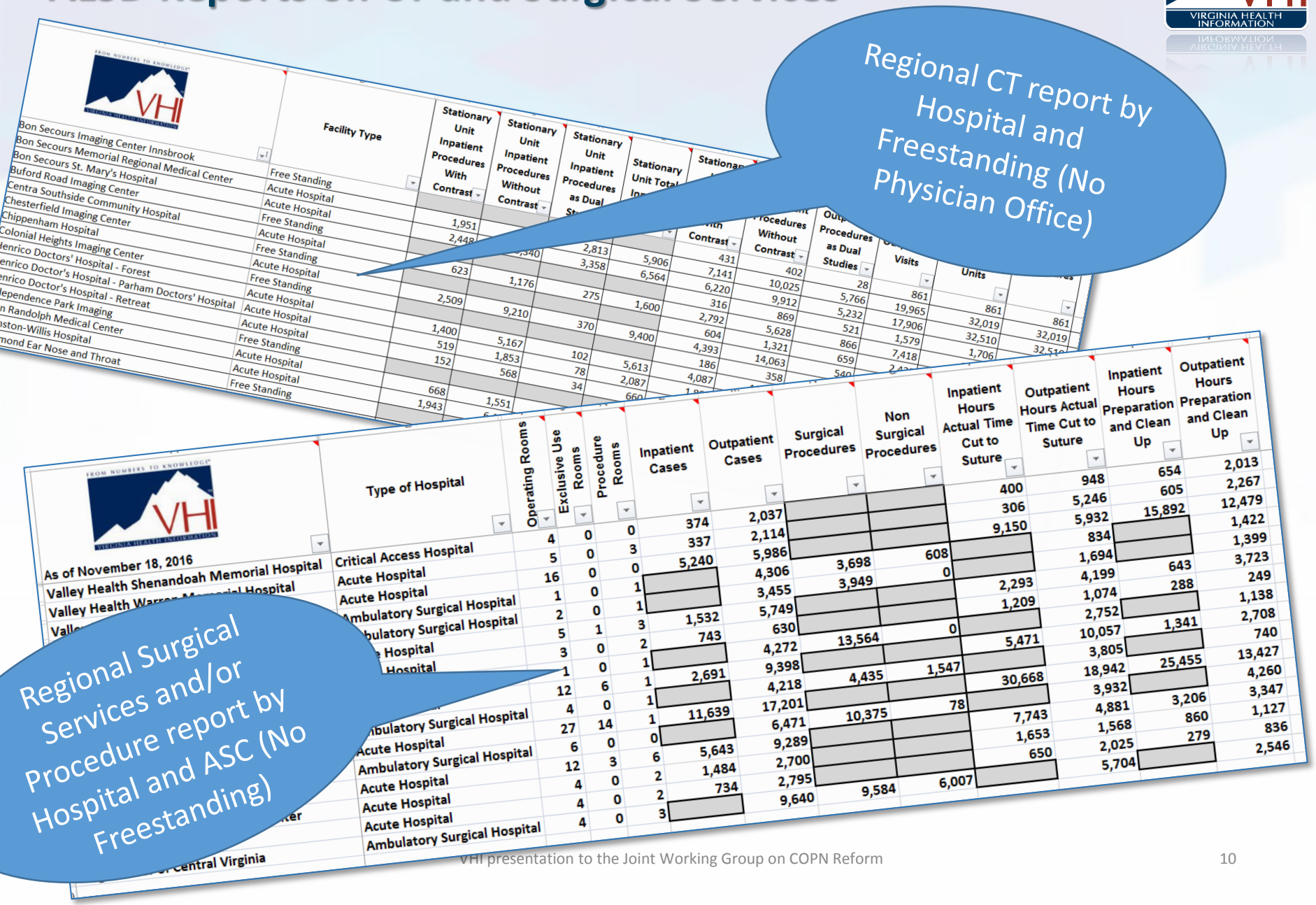
Contains

- Bed Utilization /Pt Days from Hosp/NH/CCRC but NOT from ASC or Freestanding
- FTE but NOT from Freestanding
- Imaging Visits & Px and Card Cath (N/A for NH or CCRC)
- Surgical Rooms & Cases (N/A for NH or CCRC)
- Other Services but NOT from ASC or Freestanding

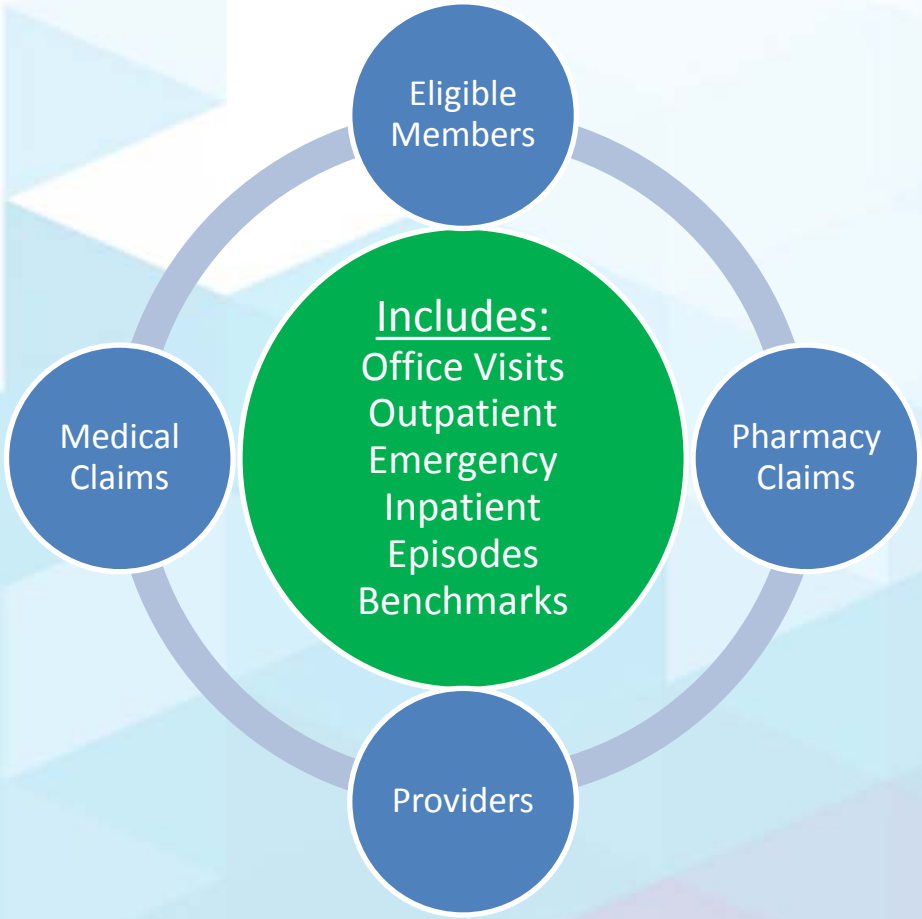
Does Not Contain

- No patient or clinical detail
- No Federal facilities
- No parent company or subsidiary data
- No $ from Freestanding Imaging Centers and/or Physician Offices
- No $ from CCRCs

ALSD Reports on CT and Surgical Services



All Payer Claims Databases (APCD)



- Aggregation of paid health insurance claims
- Provides wider view of healthcare across all settings of care
- Existing in 12 states
  Implementing in 6
  Strong interest in 20 and
  Voluntary in 5
  (APCD Council, August 2016)

Virginia's voluntary APCD was established in 2012

Virginia All Payer Claims Database (APCD)
http://www.vhi.org/apcd/

Data Source

- Virginia All Payer Claims Database

Funded

- Annual cost of roughly $1.3 million per year. 40% is paid by participating health insurance companies, 40% by the Virginia Hospital and Healthcare Association and 20% by VHI
- VHI currently receives $25,000 in general funds to help offset the cost of the APCD

Contains

- Patient demographics (age band, location, payer)
- Clinical (diagnoses and procedures, comorbidities)
- Provider (hospital, physicians)
- Masked Reimbursement amounts (allowed amounts averaged across health plans)

Does Not Contain

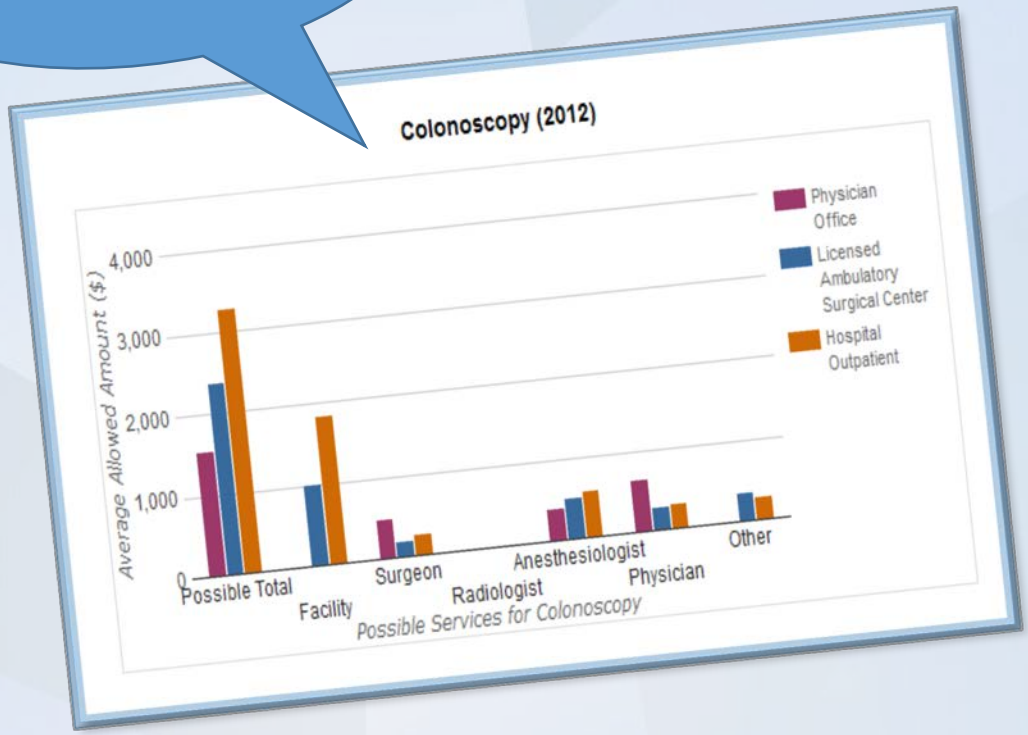
- No patient identifiers
- Not the entire state population (roughly 4 million individuals)
- No health insurance premium information

Healthcare Pricing Transparency

A *Redo* Using the APCD

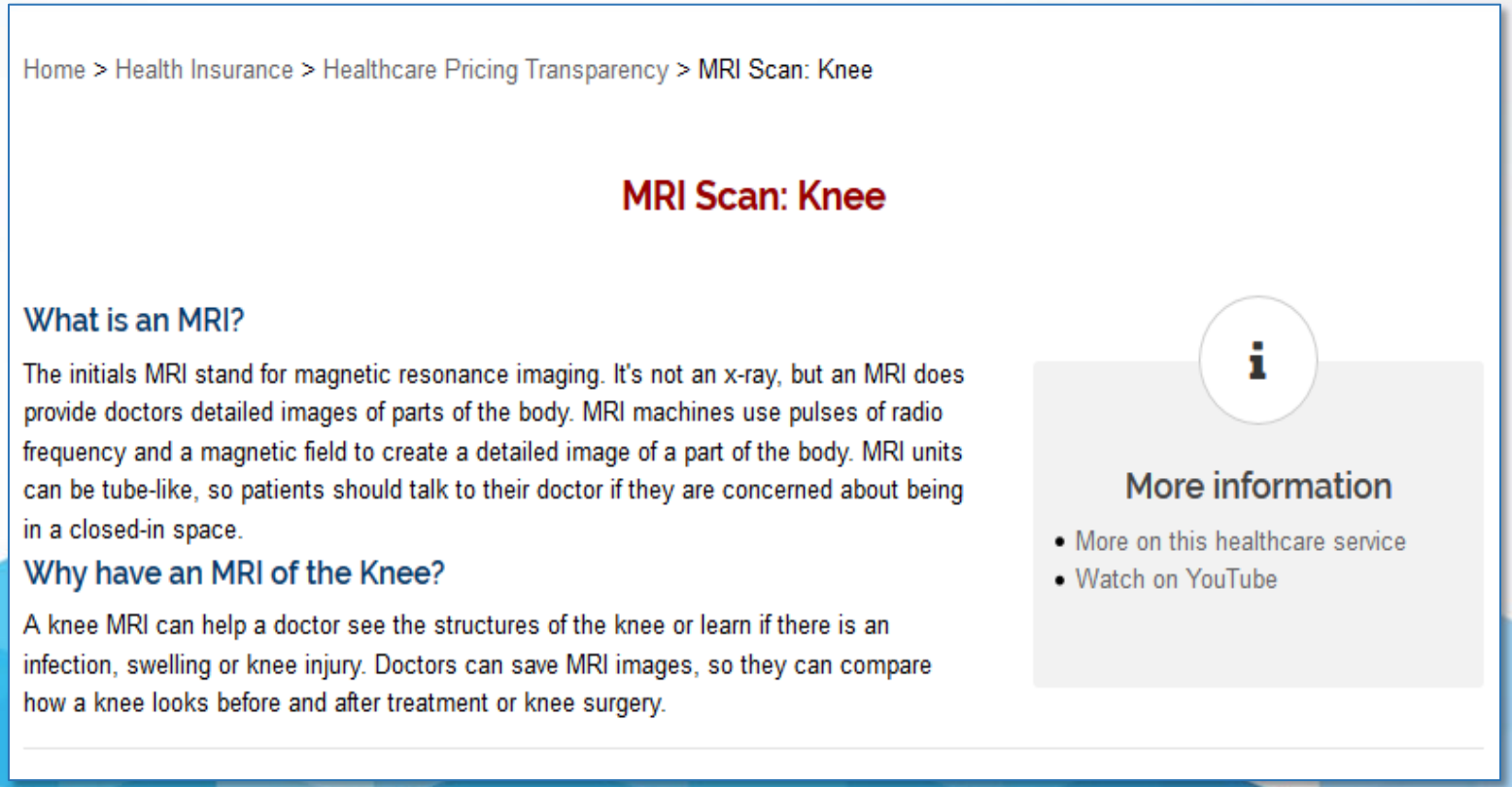
- Developed with multi-stakeholder workgroup input
- Includes 31 services by Health Planning Region expected to be published in by the end of the year
- Details average allowed amounts for commercial coverage by site of care including physician offices, surgical centers and hospitals

Free information for Consumers…



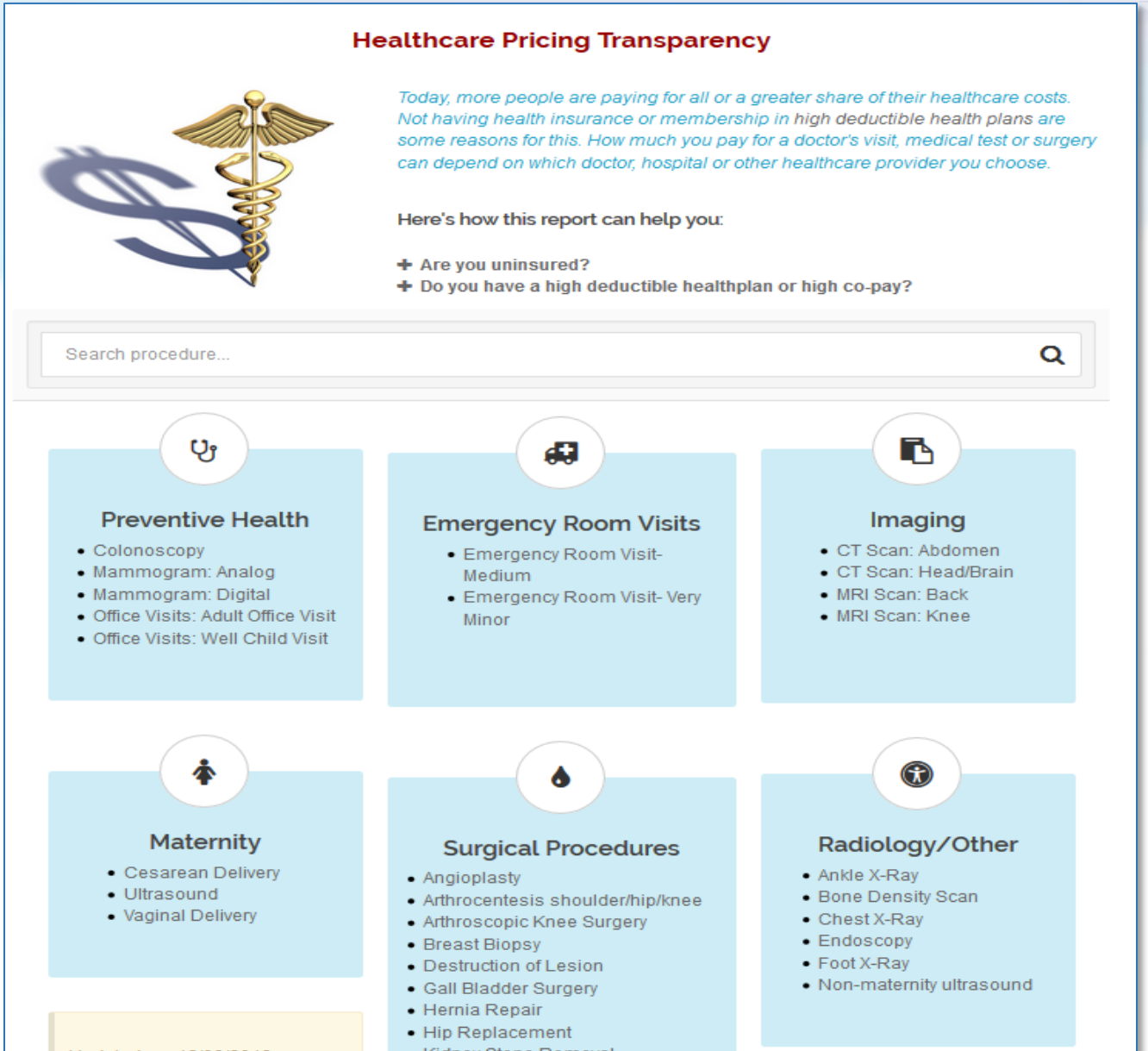
Current information at www.vhi.org

Healthcare Pricing Transparency

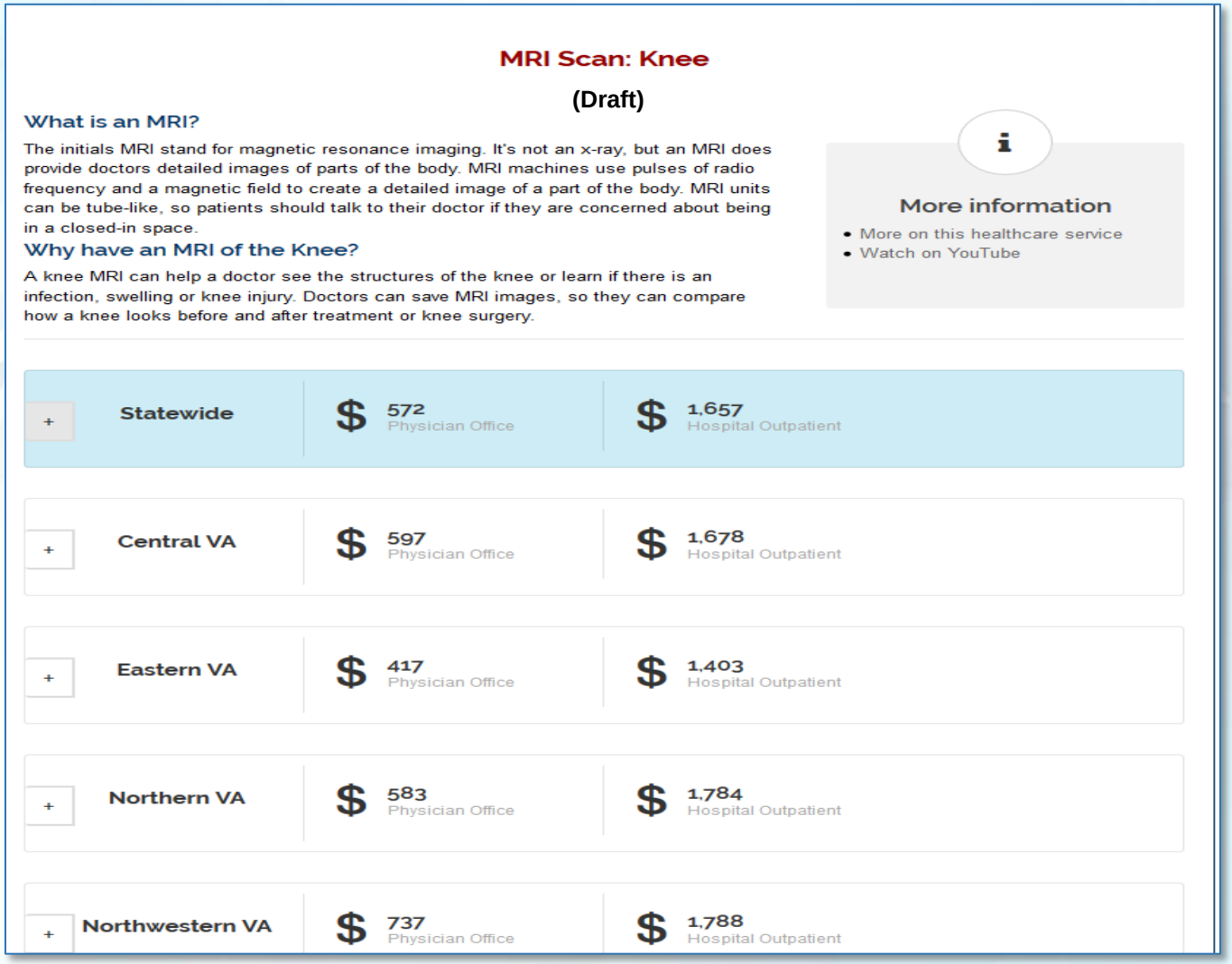


Goes beyond costs to help consumers understand the service, why have it, the risks, benefits, recovery and where to go for more information

Healthcare Pricing Transparency



Healthcare Pricing Transparency- MRI of Knee



MRI Scan: Knee

(Draft)

What is an MRI?

The initials MRI stand for magnetic resonance imaging. It's not an x-ray, but an MRI does provide doctors detailed images of parts of the body. MRI machines use pulses of radio frequency and a magnetic field to create a detailed image of a part of the body. MRI units can be tube-like, so patients should talk to their doctor if they are concerned about being in a closed-in space.

Why have an MRI of the Knee?

A knee MRI can help a doctor see the structures of the knee or learn if there is an infection, swelling or knee injury. Doctors can save MRI images, so they can compare how a knee looks before and after treatment or knee surgery.

More information

- More on this healthcare service
- Watch on YouTube

	Physician Office	Hospital Outpatient
Statewide	$ 572	$ 1,657
Central VA	$ 597	$ 1,678
Eastern VA	$ 417	$ 1,403
Northern VA	$ 583	$ 1,784
Northwestern VA	$ 737	$ 1,788

Report details differences in cost by setting and by region

Healthcare Pricing Transparency- MRI of Knee

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MRI Scan: Knee Statewide (Draft)

Possible Services	Physician Office	Hospital Outpatient
Facility	◆	$1,545
Surgeon	◆	◆
Radiologist	$507	$115
Anesthesiologist	◆	◆
Physician	◆	◆
Prescription Drug	◆	◆
Other Charges	◆	◆
State Average	**$572**	**$1,657**

◆ Less than 25% of individuals experienced this service

Please note that not every individual experienced every potential cost category for a given service. Individual costs may be much lower or higher depending on the types of services included. The total of all potential costs for a given service will often be greater than the average cost of the overall service.

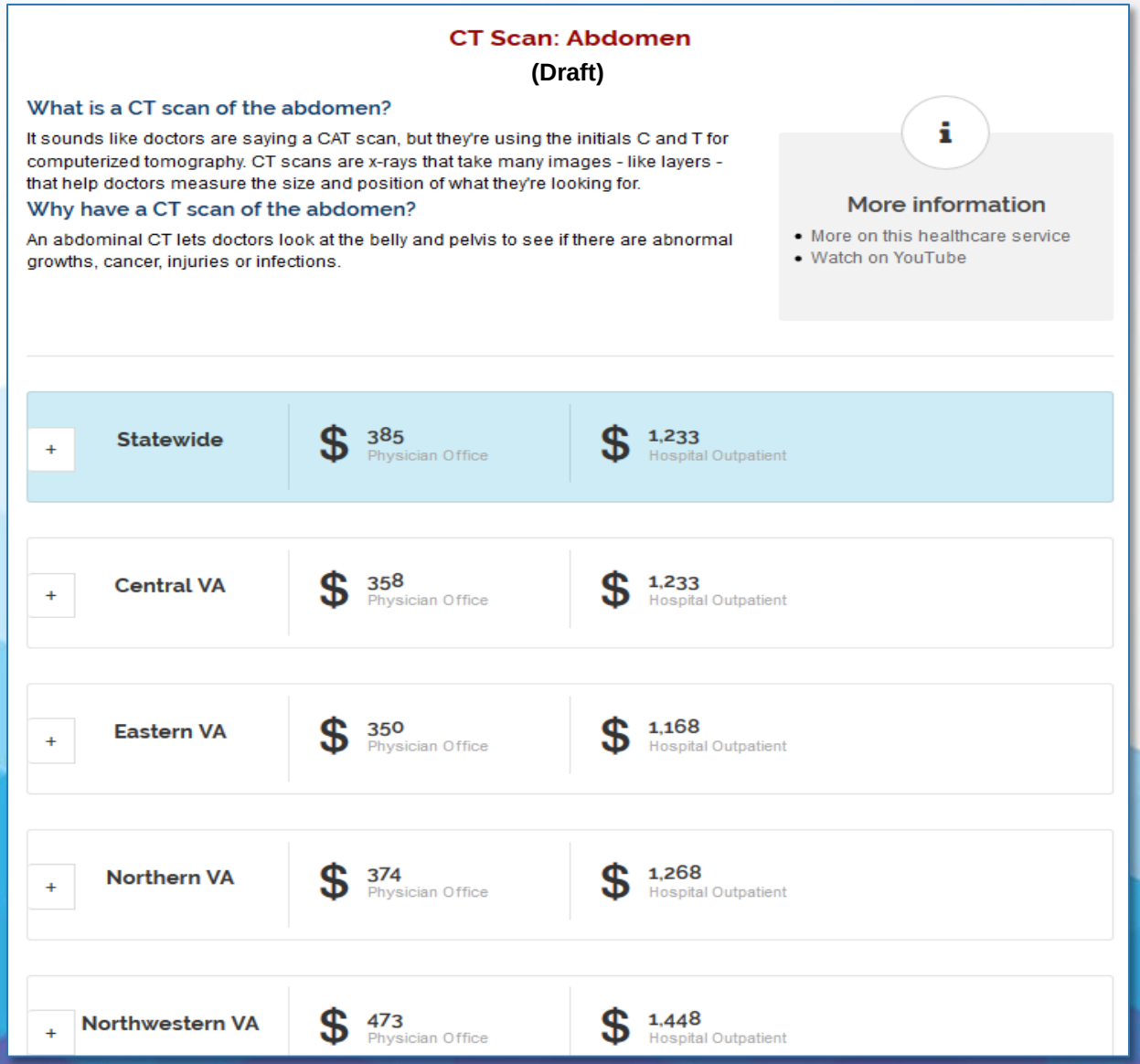
Average Overall Cost: The average allowed amount for a service is the number of dollars the healthcare provider expects to be reimbursed by both the health insurance carrier and patient. This amount is typically less than the number of dollars charged by the healthcare provider. The allowed amounts published within this report are for commercial, or non-governmental, coverage only.

- **Ambulatory Surgical Center**: Generally, a freestanding licensed ambulatory diagnostic or surgical center.
- **Physician Office**: Services performed in a physician's office.
- **Hospital Outpatient Department**: Services provided to patients at a hospital outpatient department when a patient is not admitted for inpatient hospital care.
- **Hospital Inpatient**: Services provided in a licensed hospital where patients are admitted and would normally stay overnight.
- Read more about this information.

More information on hospital financial assistance policies and how to get a price quote on a scheduled procedure per Virginia's new 2016 law: § 32.1-137.05. Advance disclosure of charge for elective procedure, test, or service may be found on each hospital's general information tab .

Easily access more detail on the individual types of costs typically experienced as part of the overall service

Healthcare Pricing Transparency- CT of Abdomen



CT Scan: Abdomen

(Draft)

What is a CT scan of the abdomen?

It sounds like doctors are saying a CAT scan, but they're using the initials C and T for computerized tomography. CT scans are x-rays that take many images - like layers - that help doctors measure the size and position of what they're looking for.

Why have a CT scan of the abdomen?

An abdominal CT lets doctors look at the belly and pelvis to see if there are abnormal growths, cancer, injuries or infections.

More information

- More on this healthcare service
- Watch on YouTube

	Physician Office	Hospital Outpatient
+ Statewide	$ 385	$ 1,233
+ Central VA	$ 358	$ 1,233
+ Eastern VA	$ 350	$ 1,168
+ Northern VA	$ 374	$ 1,268
+ Northwestern VA	$ 473	$ 1,448

VHI Healthcare Pricing Transparency- CT of Abdomen

CT Scan: Abdomen Central VA (Draft)

Possible Services	Physician Office	Hospital Outpatient
Facility	$249	$1,108
Surgeon	◆	◆
Radiologist	$135	$121
Anesthesiologist	◆	◆
Physician	◆	◆
Prescription Drug	◆	◆
Other Charges	◆	◆
Region Average	**$358**	**$1,233**

◆ Less than 25% of individuals experienced this service

Please note that not every individual experienced every potential cost category for a given service. Individual costs may be much lower or higher depending on the types of services included. The total of all potential costs for a given service will often be greater than the average cost of the overall service.

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A listing of facilities in this region may be found by clicking here. More information on hospital financial assistance policies and how to get a price quote on a scheduled procedure per Virginia's new 2016 law: § 32.1-137.05. Advance disclosure of charge for elective procedure, test, or service may be found on each hospital's general information tab .

How the APCD improves Price Transparency

- **Consistency -** VHI can calculate healthcare costs based on a single methodology approved by providers and health plans
- **Specificity -** the APCD will allow VHI to report medical service costs on a regional basis
- **Flexibility -** VHI intends to add to the 31 services already reported on in future years

Data Reported by Provider Type/Location

	PLD	EPICS		ALSD					APCD
	Patient Detail	Revenue & Expense	Assets & Liabilities	Bed Utilization /Pt Days	FTE	Imaging Visits & Px and Card Cath	Surgical Rooms & Cases	Other Services	Patient Detail
Hospital	Y	Y	Y	Y	Y	Y	Y	Y	Y
ASC	N	Y	Y	NA	Y	Y	Y	N	Y
NH	N	Y	Y	Y	Y	NA	NA	Y	N
CCRCs	N	N	N	Y	Y	NA	NA	Y	N
Freestanding Imaging Center	N	N	N	N	N	Y	N	N	Y
Physician Office	N	N	N	N	N	N	N	N	Y
Rx	N	N	N	N	N	N	N	N	Y

Access to Data

PLD – Hospital Discharge Data

- Over 100 de-identified data elements available
- Must complete License Agreement

EPICS – Hospital, ASC and NH Financial

- Available via Industry Report and free excerpts at www.vhi.org

ALSD – Hospital, ASC, Freestanding, NH and CCRC

- Available via spreadsheets and free excerpts at www.vhi.org

APCD – All Payer Claims Data

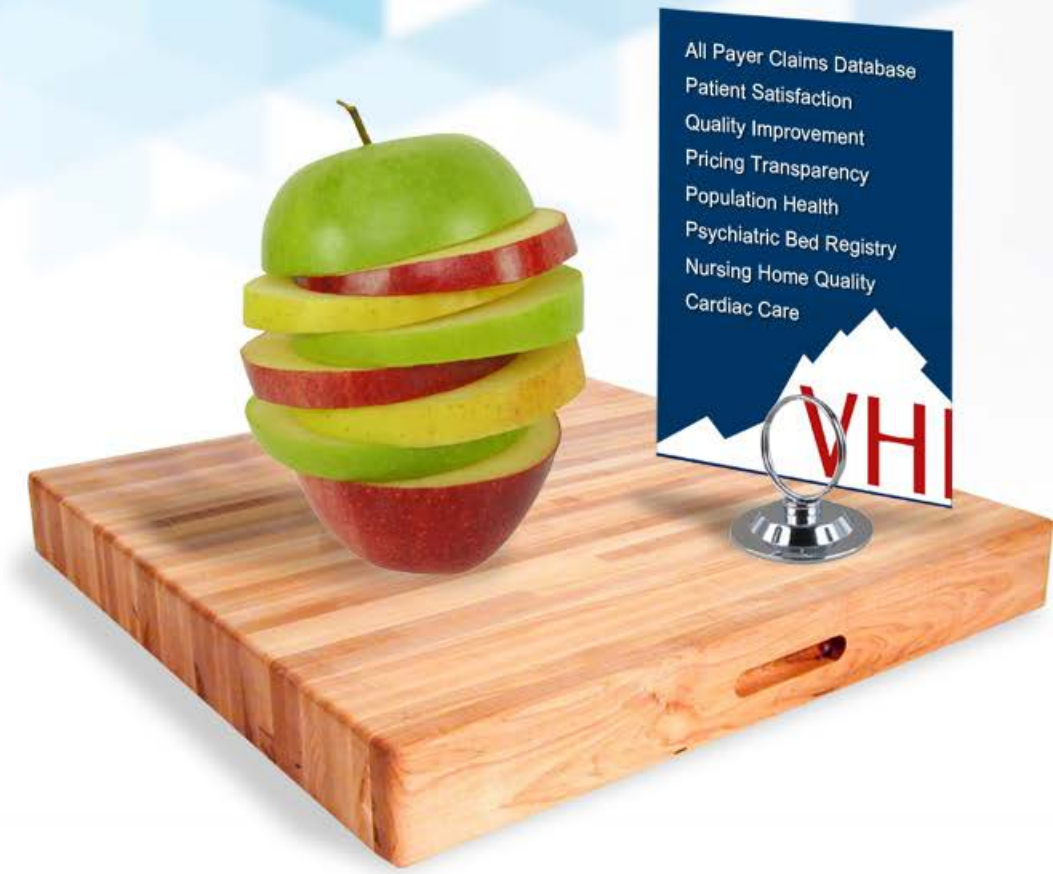
- Over 300 de-identified data elements available
- Must complete License Agreement
- Must be approved by Advisory Committee
- Providers/Payers named must have 60-day review prior to public release
- No actual payment information/proxy amounts only

ANY WAY YOU SLICE IT

Serving Up **Virginia Health Information**

Comments/Questions?

Thank you!



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