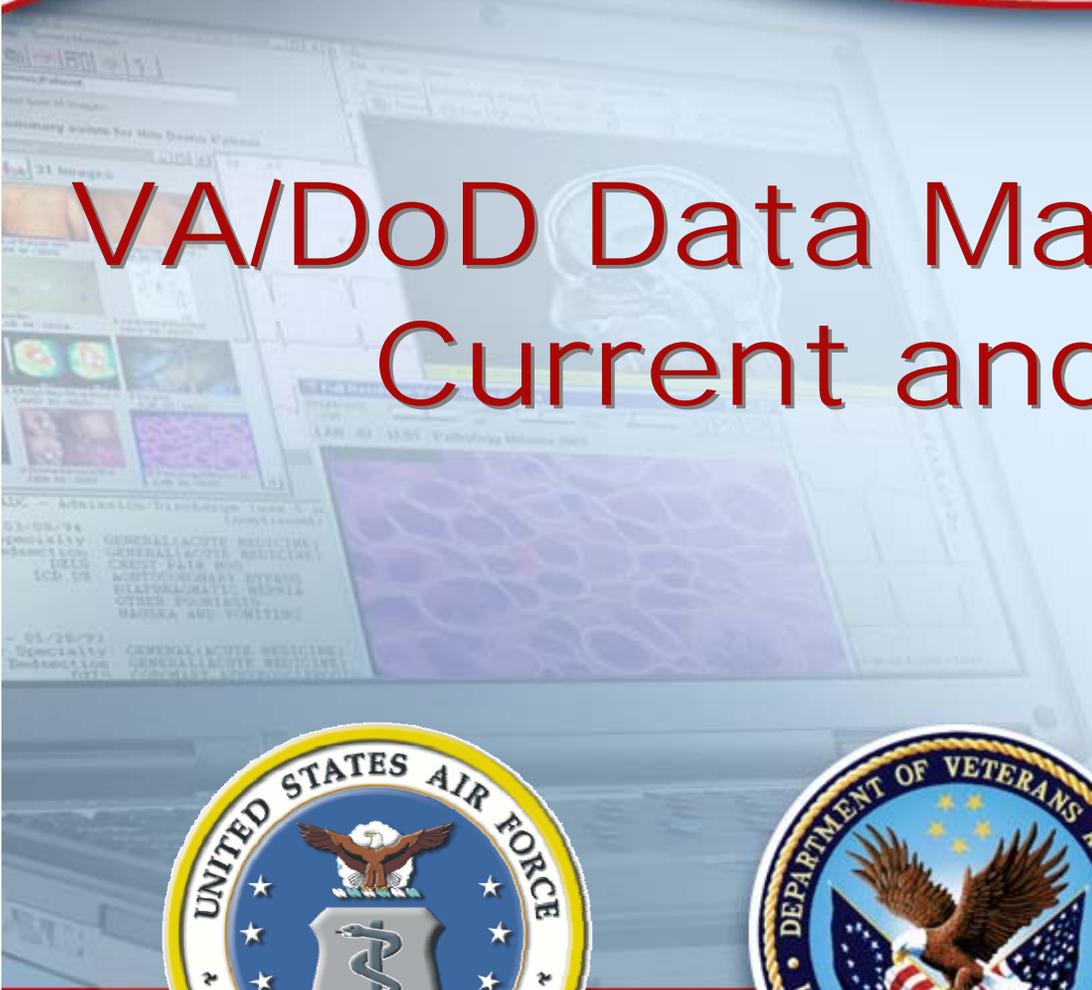




# VA/DoD Data Mart Overview Current and Future



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Deputy Director, Business Analysis

VHA Support Service Center (VSSC)





# Presentation Objectives



- **Data Mart Project Overview**
- **Demonstration of Data Mart Tools**
  - **VA ProClarity Analysis Tool**
  - **Air Force ProClarity Analysis Tool**
  - **Air Force Push Reports**
- **Data Mart Uses**
- **Future Plans for the Data Mart**





# VA/DoD Data Mart Goals/Objectives

- Provide information and analytical support for VA/DoD healthcare planning and medical sharing activities.
- Pilot and test an approach to VA/DoD data integration that is comprehensive, flexible, cost effective, and consistent.
- Develop and deploy a standard data repository integrating both VA and AF data for use in healthcare planning, operations, and collaborative initiatives.
- Create processes and tools that make VA/AF combined data accessible to managers at the national and local levels across both healthcare systems.
- 19 Catchments where AF/VA in close proximity initial focus but all zip codes later added for additional ad-hoc analysis





# VA/DoD Data Mart Goals/Objectives

- **Core Principles for Data Mart**
  - *Comprehensive* - extract Data from National VA and Air Force data systems
  - *Consistent* - develop common data dictionaries and cross walks for reporting purposes
  - *Cost Effective* - build on existing VA and Air Force methods for disseminating and analyzing data
  - *Flexible* - enable drill down to meet diverse National and local needs



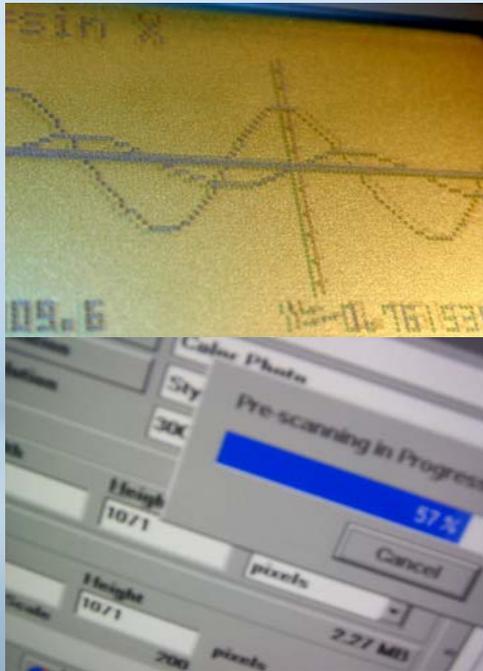


# How the Data Mart Works



## Where does the data come from?

- Each group (VA/AF) creates separate SQL Databases with combined data
  - Normalization challenges/issues
- Secure data transfer
  - Secure FTP with Encryption
- Data Use Agreement



## Where is the data housed?

- VA server and data tables in Austin, TX
- AF server and data tables in San Antonio, TX

## What do we do with the data?

- Design & Produce tools from Data Mart

## How do we see the data/tools?

- VA – ProClarity Cubes/Briefing Books (VSSC)
- DoD – ePush Reports/Web Proclarity





# What the Data Mart Contains



- **Indirect (Purchased) Care Data Cube/Briefing Books**
  - Updated quarterly with a one quarter lag
  - Treatment Date Based
  - Lag due to payment date based files
- **Direct (In-house) Inpatient Discharges Data Cube/Briefing Books**
  - Updated quarterly with rolling 24 months
  - Discharge date based
- **Direct (In-house) Outpatient Encounters Data Cube/Briefing Books**
  - Updated quarterly with rolling 24 months
  - Encounter date based
- **Staffing Levels by Specialty Data Cube/Briefing Books**
  - Updated Quarterly
  - Snapshot as of end of quarter
- **Targeted Analyses Product Line Specific Briefing Books**





# Indirect (Purchased) Care Data Cube

- **Dimensions**

- VA/DoD Flag
- Age
- Gender
- Catchment→Zip
- Payment Facility
- Beneficiary Cat/Priority
- CPT
- MDC/DRG
- ICD9
- Treatment Date
- Vendor
  - Manual work done to make common across VA/DoD
- Product Line
  - CPT/ICD9 Based on Non Inst.- Much work here
  - MDC Based for Institutional

- **Measures**

- Amount Disbursed
- Authorized Days
- Line Items
- Visits
- Unique Patients





# VA Purchased Care Screen Shots

## Unique Patients, Amount, Auth Days, Visits (Product Line)

Treatment Date:     Catchment Area:     Payment Facility:     Source:

### Purchased Care by Product Line through 2nd Quarter FY09 Langley catchment area

	DoD			VA				
	Unique Patients	Amount	Auth Days	Visits	Unique Patients	Amount	Auth Days	Visits
IP-Other	25	\$1,045,000.00	475		1	\$1,000.00	11	
IP-Nervous System	16	\$1,017,000.00	44		12	\$27,000.00	39	
IP-Eye	1	\$1,000.00	4					
IP-Ear, Nose & Throat	4	\$11,000.00	8		1	\$1,000.00	1	
IP-Respiratory System	38	\$1,011,000.00	176		14	\$10,000.00	53	
IP-Circulatory System	54	\$1,017,000.00	255		23	\$1,000,000.00	130	
IP-Digestive System	37	\$1,011,000.00	130		11	\$1,000,000.00	54	
IP-Hepatobiliary System & Pancrea	8	\$1,010,000.00	16		4	\$45,000.00	27	
IP-Musculoskeletal System & Conne	28	\$1,017,000.00	90		9	\$75,000.00	50	
IP-Skin, Subcutaneous Tissue & Br	4	\$4,000.00	12		1	\$10,000.00	1	
IP-Endocrine, Nutritional & Metab	12	\$10,000.00	39		4	\$11,700.00	15	
IP-Kidney & Urinary Tract	15	\$10,000.00	55		2	\$4,000.00	6	
IP-Male Reproductive Tract	1	\$4,000.00	1					
IP-Female Reproductive System	8	\$10,000.00	17		1	\$4,000.00	3	
IP-Pregnancy, Childbirth & The Pu	66	\$10,000.00	192		8	\$10,000.00	29	
IP-Disorders Of Neonates Originati	37	\$10,000.00	155					
IP-Blood, Blood Forming Organs &	3	\$10,000.00	15					
IP-Myeloproliferative & Other Neo	2	\$10,000.00	34					
IP-Infectious & Parasitic Disease	7	\$10,000.00	31		7	\$10,000.00	82	
IP-Mental Diseases & Disorders	2	\$10,000.00	18		4	\$10,000.00	10	
IP-Substance Use & Substance Indu	1	\$10,000.00	4		2	\$10,000.00	3	
IP-Injury, Poisoning & Toxic Drug	3	\$10,000.00	13		2	\$10,000.00	6	
IP-Burns	1	\$4,000.00	3		1	\$10,000.00	2	
IP-Factors Influencing Health Sta	1	\$10,000.00	12					
IP-Multiple Significant Trauma	7	\$10,000.00	64		1	\$10,000.00	12	
IP-Human Immunodeficiency Virus Infections					1	\$4,000.00	5	
IP-PRE MDC Transplant	1	\$10,000.00	18		1	\$10,000.00	2	
Not Defined In Table	508	\$10,000.00		738	98	\$10,000.00		266
OP-Allergy	702	\$10,000.00		2,636	13	\$10,000.00		98
OP-Cardiology	1,885	\$10,000.00		8,392	61	\$10,000.00		1,635





# AF Purchased Care Screen Shots

**Amount (Common Vendor Name)**

Measures:

Cachment Area:

Rolling 12 Month Flag:

	All VA_DoD_Flag	DoD	VA
PHS- ALASKA	\$13,480,145.45	\$5,382,386.44	\$7,497,759.01
U S AIR FORCE REGIONAL HOSPITA	\$3,126,146.21		\$3,126,146.21
MAT SU VALLEY MED CTR LLC	\$3,093,740.35	\$2,440,069.25	\$653,671.10
COLUMBIA ALASKA REGIONAL HOSP	\$2,880,045.04	\$1,679,206.00	\$1,200,839.04
Other Not Defined In Table	\$2,542,845.40	\$2,246,403.94	\$296,441.46
ALASKA HEART INST	\$1,317,494.72	\$437,354.28	\$880,140.44
ALASKA NATIVE MEDICAL CENTER	\$1,247,223.40	\$1,242,204.87	\$5,018.53
INTERNAL MEDICINE ASSOCS	\$802,472.40	\$74,942.75	\$727,529.65
GUARDIAN FLIGHT	\$674,807.44	\$300,404.57	\$374,402.87
KATMAI ONCOLOGY GROUP	\$563,537.96	\$566,203.26	\$25,334.70
HEALTHSOUTH DIAGNOSTIC CENTER OF ANCHORA	\$503,436.35	\$47,137.40	\$456,298.95
ALASKA REHABILITATION MEDICINE IND	\$493,413.33	\$305.14	\$493,108.19
PROVIDENCE ANCHORAGE ANES	\$471,994.25	\$386,317.00	\$85,677.25
ALASKA KIDNEY CENTER	\$466,446.14	\$26,963.09	\$439,483.05
ALASKA DIGESTIVE CENTER LLC	\$435,722.00	\$33,445.96	\$402,276.04
MUNICIPALITY OF ANCHORAGE	\$426,842.95	\$335,474.44	\$91,368.51
PROVIDENCE HOME HEALTH CARE	\$402,493.52	\$47.90	\$402,445.62
ALL FOR KIDS PED THER LLC	\$394,334.88	\$394,334.88	
AA PAIN CLINIC INC	\$385,742.43	\$375,749.43	\$10,000.00
CHILDRENS HOSP & MED CTR	\$385,046.59	\$385,046.59	
ALASKA UROLOGICAL ASSOC	\$375,475.35	\$36,207.73	\$339,267.62
ALASKA RADIOLOGY ASSOC	\$364,743.37	\$135,445.02	\$229,298.35
PROVIDENCE BEHAVIORAL MEDICINE	\$347,546.32	\$345,439.03	\$2,107.29
AMER HYPERBARIC CTR	\$336,244.35	\$336,352.43	\$16,108.02
ALASKA EMERGENCY MEDICINE ASSOCIATE	\$336,403.49	\$332,545.56	\$3,857.93
OPHTHALMIC ASSOCIATES	\$326,045.88	\$94,340.45	\$231,705.43
ALASKA SURGERY CENTER	\$324,340.45	\$302,404.87	\$21,935.58
ALASKA PERINATOLOGY ASSOCIATES	\$302,136.79	\$348,245.54	\$36,108.75
ALASKA ONCOLOGY & HEMATOLOGY L	\$303,744.87	\$246,476.23	\$57,268.64
ALASKA SPINE CENTER	\$302,775.26	\$284,744.11	\$18,031.15
STATE OF ALASKA SPECIALTY CLINIC	\$302,346.37	\$24,440.40	\$277,905.97
HEALTHSOUTH	\$297,434.43	\$297,434.43	





# Direct Care Inpatient Discharges

- **Dimensions**

- VA/DoD Flag
- Age
- Gender
- Catchment→Zip
- Treatment Facility
- Beneficiary Cat/Priority
- MDC/DRG
- Principal ICD9
- Discharge Date
- Product Line→Work Unit
  - Based on MEPRS code for AF
  - Based on Disch Bedsection for VA
  - Crosswalk to common Product Lines

- **Measures**

- Discharges
- Total Length of Stay (Days)
- Avg Length of Stay
- Unique Patients

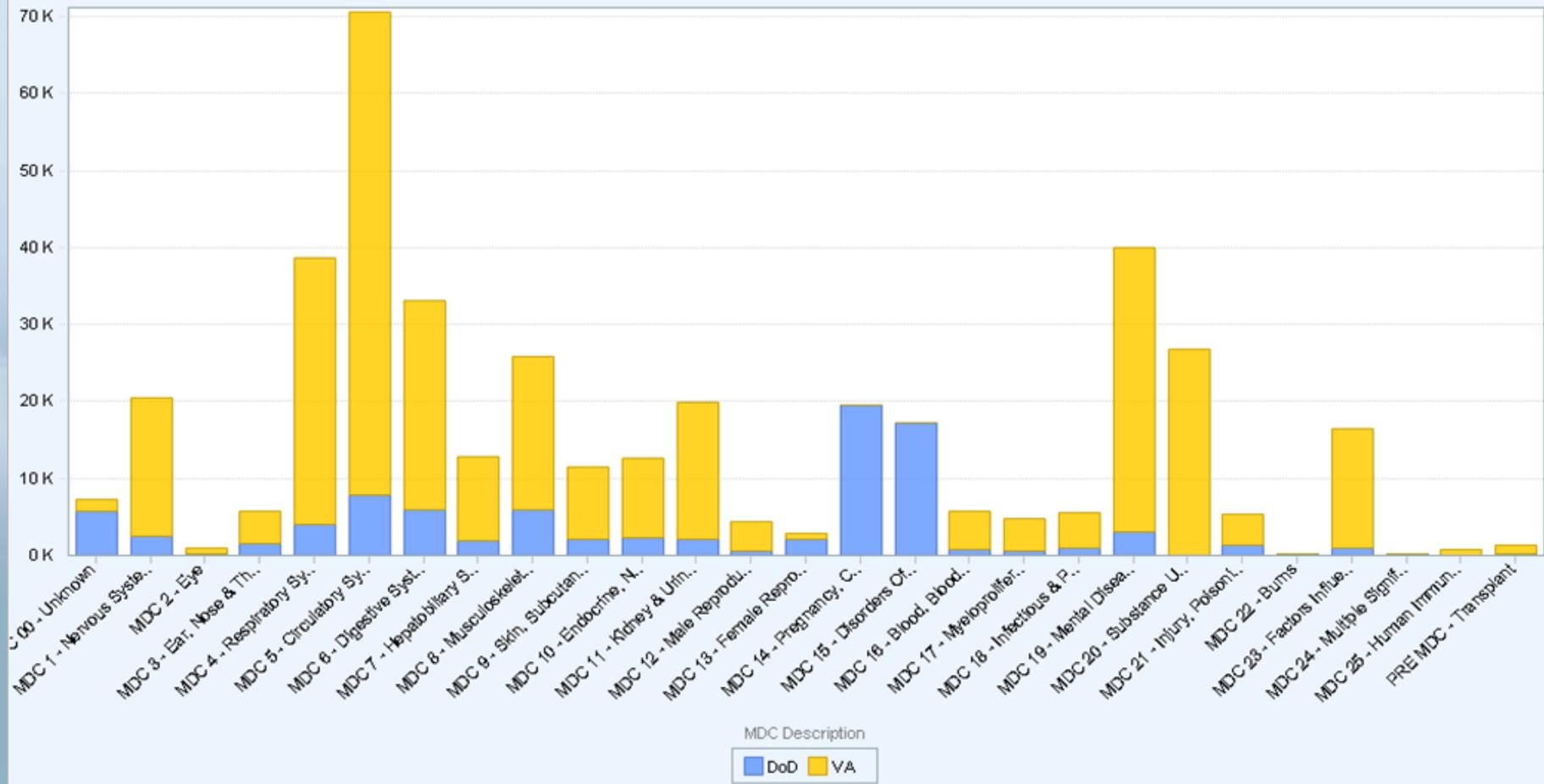




# Direct Inpatient Discharges



Discharges for FY09 through 2nd Quarter BY Major Diagnostic Categories (MDC)





# Direct Care Inpatient Top 25 DRGs



## Discharges through 2nd Quarter FY09 by DRG sorted on All VA\_DoD

	All VA_DoD_Flag	DoD	VA
N (313) Chest pain	10,140	2,322	7,818
N (293) Heart failure & shock w/o CC/MCC	4,893	330	4,563
N (310) Cardiac arrhythmia & conduction disorders w/o CC/MCC	4,611	630	3,981
N (287) Circulatory disorders except AMI, w card cath w/o MCC	4,506	555	3,951
N (312) Syncope & collapse	4,190	644	3,546
N (292) Heart failure & shock w CC	4,153	251	3,902
N (303) Atherosclerosis w/o MCC	3,445	166	3,279
N (291) Heart failure & shock w MCC	3,056	160	2,896
N (247) Perc cardiovasc proc w drug-eluting stent w/o MCC	2,152	243	1,909
N (309) Cardiac arrhythmia & conduction disorders w CC	1,953	168	1,785
N (301) Peripheral vascular disorders w/o CC/MCC	1,685	116	1,569
N (305) Hypertension w/o MCC	1,422	271	1,151
N (300) Peripheral vascular disorders w CC	1,319	82	1,237
N (282) Acute myocardia infarction, discharged alive w/o CC/MCC	1,308	107	1,201
N (311) Angina pectoris	1,305	126	1,179
N (236) Coronary bypass w/o cardiac cath w/o MCC	1,206	67	1,139
N (238) Major cardiovasc procedures w/o MCC	1,199	57	1,142
N (314) Other circulatory system diagnoses w MCC	1,096	68	1,028
N (254) Other vascular procedures w/o CC/MCC	1,052	57	995
N (316) Other circulatory system diagnoses w/o CC/MCC	1,045	129	916
N (308) Cardiac arrhythmia & conduction disorders w MCC	1,003	78	925
N (315) Other circulatory system diagnoses w CC	987	80	907
N (280) Acute myocardial infarction, discharged alive w MCC	914	77	837
N (281) Acute myocardial infarction, discharged alive w CC	892	74	818
N (251) Perc cardiovasc proc w/o coronary artery stent or AMI w/o MCC	860	162	698
N (253) Other vascular procedures w CC	846	55	791
N (249) Perc cardiovasc proc w non-drug-eluting stent w/o MCC	693	81	612





# Direct Inpatient Product Lines



**DODVA - DATA MART DEMO**

Dashboard

General ▶ Outpatient ▶ Inpatient ▶

Welcome Back

**Inpatient Expenditures - Grid**

Reporting Period: Current 12 Months Measures: Amount MTF: NELLIS

	DOD		VA	Grand Total
	MTF Enrollee	Other AF Enrollee		
↓ Blood, Blood Forming Organs &	1,188,812 0.7%		28,882 0.1%	1,217,694 0.8%
↓ Burns			5,348 0.0%	5,348 0.0%
↓ Circulatory System	1,227,273 7.4%	912 0.0%	2,483,313 14.8%	3,711,498 22.2%
↓ Digestive System	861,407 2.7%		288,712 1.7%	1,150,119 4.4%
↓ Disorders Of Neonates Orginati	273,086 4.7%			273,086 4.7%
↓ Ear, Nose & Throat	11,388 0.1%		18,364 0.1%	29,752 0.2%
↓ Endocrine, Nutritional & Metab	188,138 1.0%		83,888 0.4%	272,026 1.4%
↓ Eye	3,338 0.0%		4,888 0.0%	8,226 0.0%
↓ Factors Influencing Health Sta	16,731 0.1%		17,364 0.1%	34,095 0.2%
↓ Female Reproductive System	188,088 0.9%			188,088 0.9%
↓ Hepatobiliary System & Pancrea	863,718 2.9%		174,264 1.1%	1,037,982 4.0%
↓ Human Immunodeficiency Virus Infections				
↓ Infectious & Parasitic Disease	288,874 1.5%		181,888 1.1%	470,762 2.6%
↓ Injury, Poisoning & Toxic Drug	188,888 0.7%		88,371 0.2%	277,259 0.9%
↓ Kidney & Urinary Tract	188,512 0.9%	2,244 0.0%	182,783 1.2%	373,539 2.1%
↓ Male Reproductive Tract	18,888 0.1%			18,888 0.1%
↓ Mental Diseases & Disorders	3,338 0.0%		28,337 0.2%	31,675 0.2%
↓ Multiple Significant Trauma	127,288 0.8%			127,288 0.8%
↓ Musculoskeletal System & Conne	1,288,417 10.7%		814,018 5.5%	2,102,435 16.2%
↓ Myeloproliferative & Other Neo	288,188 1.5%		88,788 2.2%	376,976 2.7%
↓ Nervous System	787,888 4.3%	952 0.0%	287,674 1.6%	1,076,514 5.9%
↓ Other	1,288,788 11.8%	68,152 0.4%	488,788 2.5%	1,845,728 14.7%
↓ PRE MDC Transplant				
↓ Pregnancy, Childbirth & The Pu	287,817 1.6%	8,861 0.1%	28,888 0.2%	325,566 1.8%
↓ Respiratory System	888,888 6.1%	5,058 0.0%	888,888 5.5%	1,782,834 11.6%
↓ Skin, Subcutaneous Tissue & Br	33,888 0.2%		52,888 0.3%	86,776 0.5%
↓ Substance Use & Substance Indu	2,338 0.0%		2,488 0.0%	4,826 0.0%
<b>Grand Total</b>	<b>18,888,888 60.6%</b>	<b>86,180 0.5%</b>	<b>4,888,888 38.9%</b>	<b>24,663,956 100.0%</b>





# Direct Outpatient Encounters Cube

- **Dimensions**
  - VA/DoD Flag
  - Age
  - Gender
  - Catchment→Zip
  - Treatment Facility
  - Beneficiary Cat/Priority
  - Principal ICD9
  - Encounter Date
  - Product Line→Clinical Svc Line
    - Based on MEPRS code for AF
    - Based on Stop Code for VA
    - Crosswalk to common Product Lines and Clinical Service Lines
- **Measures**
  - Encounters
  - Unique Patients

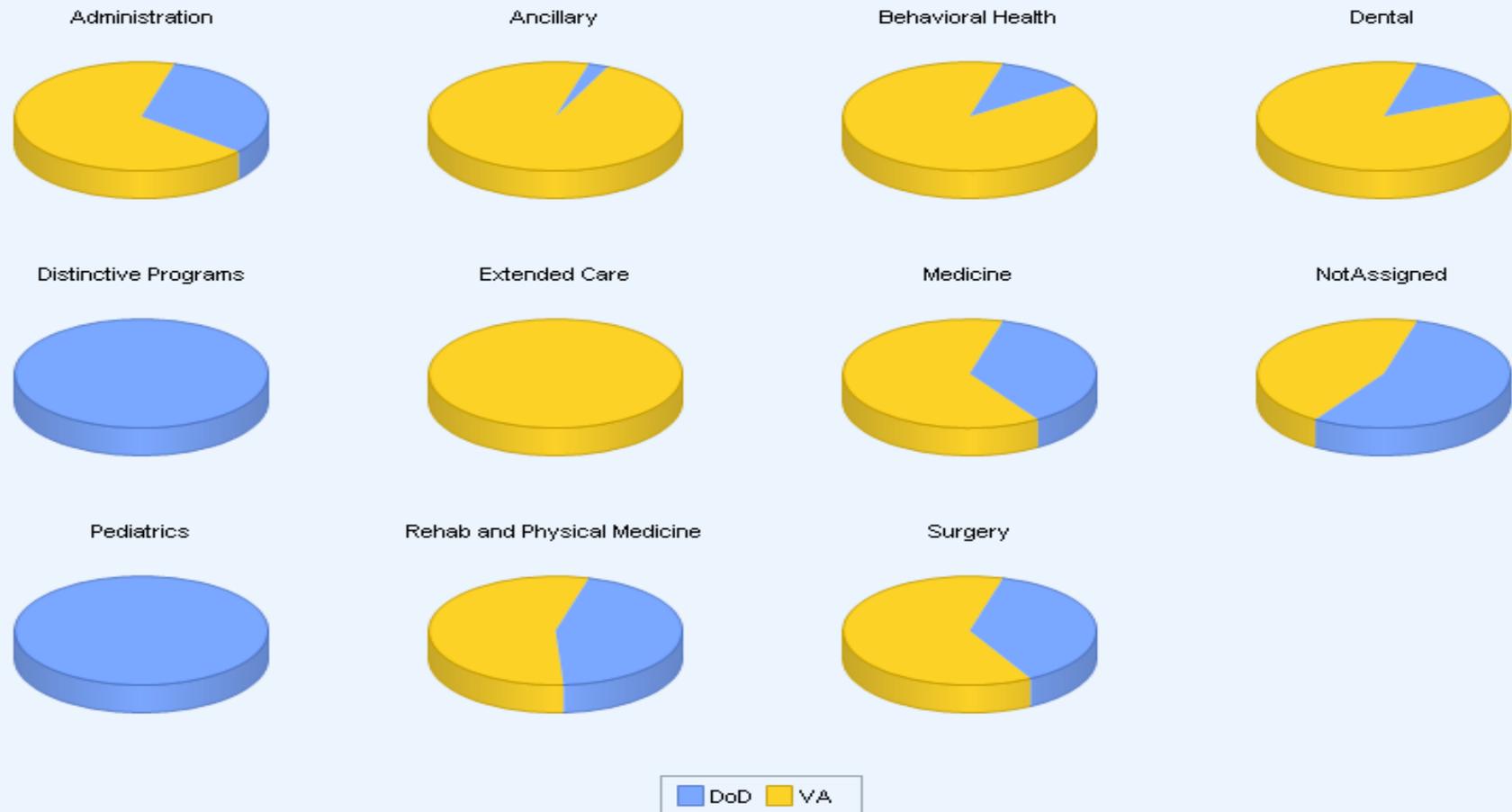




# Direct Outpatient Encounters



In-house Outpatient Encounters by Product Line through 2nd Quarter FY09





# Staffing Levels by Specialty



- **Dimensions**

- VA/DoD Flag
- Specialty
- Provider Type
- Catchment
- Treatment Facility

- **Measures**

- Fellow FTE
- MD FTE
- Resident FTE
- Total FTE





# Staffing by Specialty



## MD FTE by Specialties for VA\_AF Paired Facilities

Measures:  ProviderType Provider Type:  Facility Administrative Parent:

### MD FTE by Specialties for VA Paired Facilities

	0120-1st MED GRP-LANGLEY	(V06) (590) Hampton, VA
Aerospace Medicine	3.01	
Allergy and Immunology		
Anesthesiology	5.15	.83
Cardiology	.84	1.73
Clinical Cardiac Electrophysiology		
Critical Care / Pulmonary Disease		1.84
Dermatology	2.48	.00
Emergency Medicine	3.90	.92
Endocrinology		.89
Family Practice	18.28	
Gastroenterology		
Geriatric Medicine		2.39
Hematology-Oncology		.97
Infectious Disease		1.55
Internal Medicine	4.58	27.99
Interventional Cardiology		
Medical Genetics		
Nephrology		1.52
Neurological Surgery		
Neurology		1.90
Obstetrics & Gynecology	7.72	.86
Ophthalmology	.96	2.06
Orthopaedic Surgery	5.49	.18
Otolaryngology	1.13	.47
Pain Medicine		
Pathology		1.67
Pediatrics	10.27	
Physical Medicine & Rehabilitation		4.97
Plastic Surgery		.10
Preventive Medicine		.86
Psychiatry	2.93	16.79





# Decomposition Tree Custom Drill Down



## Breakdown of Encounters at Product Line Group level

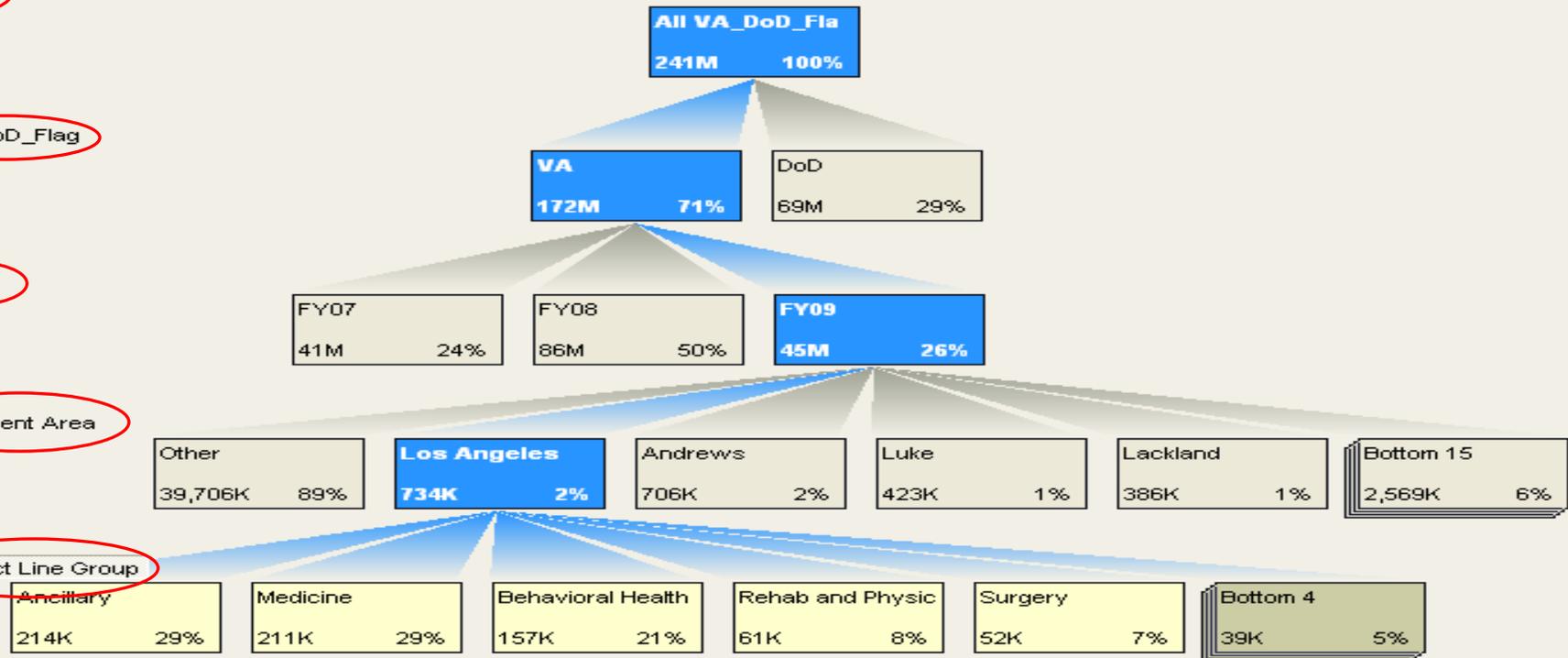
(All)

VA\_DoD\_Flag

Year

Cachment Area

Product Line Group





# Targeted Analysis Briefing Books



Contents navigation Data Layout View Sort Filter

Libraries » Non-VA Care » VA-AF Combined Purchase Care - PHI

Contents Libraries My Views

**How do I...**

- [Open a library?](#)
- [Open a Briefing Book page?](#)
- [Sort libraries and books?](#)
- [Download Web Professional?](#)
- [More help...](#)

User: VHAHAMMcLuL  
ProClarity: Standard  
[Check for Downloads](#)

Name
<a href="#">General Views</a>
<a href="#">Inpatient Care</a>
<a href="#">Outpatient Care</a>
<a href="#">Vendor</a>
<a href="#">Rolling 12 Month Reports</a>
<a href="#">MRI Analysis</a>
<a href="#">Sleep Study Analysis</a>
<a href="#">Chemotherapy Analysis</a>
<a href="#">Dialysis Analysis</a>
<a href="#">Radiation Oncology Analysis</a>
<a href="#">Create Your Own View</a>
<a href="#">Handbook on VA DOD Sharing Agreements</a>
<a href="#">VA-AF Purchased Care Data Definitions</a>





# Targeted Analysis Briefing Books - Dialysis



Contents Navigation Data Layout View Sort Filter

Libraries > VA-AF Combined Purchase Care - PHI > Dialysis Analysis > Dialysis Product Line by Market

**Navigation**

**How do I...**

- Get started (run a query)?
- Set a navigation mode?
- Drill down to a specific member?
- Save my page?
- More help...

Selected:

Other

Drill Down Show Only

Drill Up Hide

Expand

Drill Down to...

Navigation mode:

Drill Down mode

Expand mode

	DoD			VA		
	Amount	Unique Patients	Visits	Amount	Unique Patients	Visits
Other	\$18,000,214.00	1,819	225,887	\$218,047,000.00	8,548	643,162
Nellis	\$263,000.00	56	4,710	\$2,344,210.00	149	6,845
Scott	\$95,000.00	29	3,877	\$2,812,488.00	104	3,640
Luke	\$172,800.00	40	3,424	\$2,344,130.00	135	9,636
Travis	\$481,200.00	69	12,402	\$2,738,141.71	137	7,473
Los Angeles	\$28,100.00	5	277	\$1,000,348.14	116	4,409
Andrews	\$1,002,400.00	236	26,647	\$1,213,644.75	128	2,140
Tinker	\$8,000.00	10	292	\$1,100,041.07	119	6,603
Mcconnell	\$61,700.00	7	891	\$1,117,154.00	28	4,681
Lackland	\$1,201,100.00	212	31,607	\$840,201.14	70	2,803
Keesler	\$223,800.79	60	8,743	\$777,367.00	42	2,330
Maxwell	\$27,875.00	9	905	\$740,742.43	30	3,463
Kirtland	\$61,170.00	5	857	\$420,442.74	28	595
Elmendorf	\$40,400.00	13	1,702	\$254,000.11	23	298
Barksdale	\$114,000.00	12	1,103	\$241,054.00	25	1,365
Langley	\$264,014.18	114	12,985	\$274,343.00	59	972
Hill	\$14,304.00	3	489	\$186,877.24	16	1,030
Fairchild	\$18,000.00	6	701	\$143,214.32	18	283
Davis Monthan	\$178,727.00	13	986	\$141,200.00	28	188
Offutt	\$174,100.00	25	1,838	\$48,147.00	30	288
<b>Grand Total</b>	<b>\$15,470,289.30</b>	<b>2,667</b>	<b>340,323</b>	<b>\$218,047,000.00</b>	<b>9,705</b>	<b>702,204</b>





# Targeted Analysis

## Briefing Books - Sleep Studies



» Sleep Study Analysis » Sleep Study Product Line by Market

↑	DoD			VA		
	Amount	Unique Patients	Visits	Amount	Unique Patients	Visits
↓ Other	\$67,883,788.79	49,114	107,636	\$26,143,389.48	34,212	53,748
↓ Lackland	\$2,335,388.54	2,599	4,804	\$1,675,286.31	1,856	2,258
↓ Kirtland	\$433,175.88	388	682	\$748,332.31	590	738
↓ Tinker	\$726,267.42	696	1,571	\$682,837.58	671	847
↓ Elmendorf	\$1,436,420.29	882	1,719	\$1,172,288.46	398	769
↓ Keesler	\$483,788.88	417	947	\$236,278.31	196	405
↓ Langley	\$3,138,267.96	2,940	6,755	\$238,298.46	223	314
↓ Andrews	\$3,254,329.58	2,978	5,653	\$137,488.54	201	292
↓ Offutt	\$732,545.79	935	1,535	\$171,888.87	196	338
↓ Maxwell	\$346,232.38	458	1,094	\$115,238.86	121	221
↓ Luke	\$432,488.79	753	1,238	\$48,156.27	115	140
↓ Nellis	\$485,575.32	655	1,060	\$18,888.54	66	128
↓ Fairchild	\$288,388.33	233	524	\$48,283.87	57	84
↓ Los Angeles	\$211,812.74	193	300	\$8,211.37	9	10
↓ Scott	\$736,488.36	655	1,910	\$7,888.54	7	12
↓ Travis	\$438,882.88	523	1,079	\$4,218.37	7	7
↓ Davis Monthan	\$471,388.29	562	806	\$3,487.87	3	4
↓ Barksdale	\$337,488.53	404	951			
↓ Hill	\$438,788.36	430	1,207			
↓ Mcconnell	\$338,454.77	284	765			
<b>Grand Total</b>	<b>\$68,211,548.24</b>	<b>65,727</b>	<b>142,236</b>	<b>\$38,214,878.82</b>	<b>38,906</b>	<b>60,315</b>





# AF Push Report



## Components

- Executive Summary
- Purchased Care Specifics
- Market Share



### Air Force - Veteran's Health Administration 0120 - LANGLEY AFB Market Area Opportunity Identification Report - March 2007



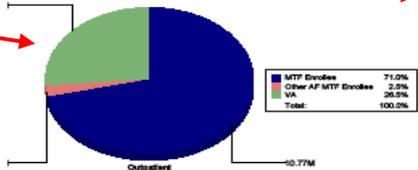
#### Opportunity Identification

Expanding resource sharing opportunities is the goal for both the DoD and the VA. One way to approach opportunity identification is to look at market share. If there is a relatively close split for a common service, with high cost associated, it may be a candidate for joint services purchase with a common vendor, a DoD/VA internal-external resource share, or a new service initiation between the two federal departments. Included in the analysis is care rendered in the 40/20 mile area surrounding the Air Force facility, which can be expanded/reallocated to create a federal market area.

#### AF/VA Private Sector Expenditures and Market Share

The pie chart shows the total expenditures for the previous 12 months. Private Sector Care claims lag approximately 3 months and mature over time.

Market Share by Dept/Enrl DMIs



	Unique Patients	Total Expenditure	DMPI BUY
<b>Inpatient</b>			
MTF Enrollee	596	2,935,105	4,925
Other AF MTF Enr	5,861	32,303,182	5,512
<b>Outpatient</b>			
MTF Enrollee	11,168	10,767,032	954
Other AF MTF Enr	687	376,717	548
VA	1,719	4,022,891	2,340

Market Share is tracked as the percentage each department contributes the risk pool. Market Share = Air Force Expenditures + VA Expenditures. The table above shows the cost per unique patient seen in the Private Sector. These reflect expenditures across all product lines.

	AF	VA	Total
SENTARA - 541547408	2,257,074.25 20.25%	145,630.05 3.62%	2,402,704.30 15.84%
MARY IMMACULATE HOSPITAL INC - 540548200	618,048.38 5.55%	39,450.26 0.98%	657,498.64 4.34%
RIVERSIDE - S21245746	495,054.95 4.44%	117,397.66 2.92%	612,452.61 4.04%
VIRGINIA ONCOLOGY ASSOCIATES PC -	441,060.60 3.96%	2,573.08 0.06%	443,633.68 2.93%
DAVITA INC - 232536597	33,418.99 0.30%	352,660.90 8.77%	386,079.89 2.55%
SLEEP DISORDER CENTERS HR - 541968877	367,719.98 3.30%	0.00 0.00%	367,719.98 2.42%
CHILD HSP OF THE KING DAUGHTER HEALTH SYS -	300,019.46 2.69%	0.00 0.00%	300,019.46 1.98%
MIDDLEBORO SKILLED CARE - 020576752	0.00 0.00%	272,250.00 6.77%	272,250.00 1.80%
PEDIATRIC SERVICES OF AMERICA INC - 581584862	242,117.77 2.17%	0.00 0.00%	242,117.77 1.60%
PENINSULA EMERGENCY PHYS - 541059223	212,868.28 1.91%	5,927.94 0.15%	218,796.23 1.44%
Others	6,176,376.16 55.42%	3,087,001.37 76.74%	9,263,377.53 61.08%
<b>Total</b>	<b>11,143,749 100.00%</b>	<b>4,022,891 100.00%</b>	<b>15,166,640 100.00%</b>

The Vendor Name is based on the provider tax ID which can represent a collection of hospitals, medical groups, clinics, service organizations, and individual physicians.

#### How to Interpret this Information

Information contained in this report is organized by section. Section 1, provides an understanding of the concept of joint opportunity identification, the geographic representation of the area and costs. Section 2, breaks down each product line, it's expenditure contribution and whether it is inpatient or outpatient care. Section 3 identifies top expenditures by vendor. Future Sections will include an over time trend of expenditures.



Section 1 is an Executive Summary of both "Market Share" and "Expenditures." The chart shows the market share of both the Air Force and VA in terms of total expenditure in this market area.



Sections 2 and 3 of this report provide information about what kind of care was purchased, who rendered the care, what are the major procedures purchased over a 12-month rolling period, where they are located relative to the market area. The ability to look for leveraged buy or service consideration within both the DoD and among other federal government providers and purchasers (i.e. VA, Indian Health Service, etc.)



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# Known or Potential Uses of the Data Mart



- **Joint Inpatient Mental Health Unit**
- **Joint Dialysis Unit**
- **Kidney Transplantation**
- **Center of Excellence – Combining services at one VA or MTF location, hiring staff to coordinate such projects, recapture purchased care to optimize services, GME, etc.**
- **Joint AF/VA Federal clinic in San Antonio**
- **Renovation of MTF space for VA Community Outpatient Clinic**
- **Joint Blood Bank**





# Known or Potential Uses of the Data Mart



- **Shared Radiation Oncology**
- **Telemental Health – Primarily remote prescriber medication management with on-site psychotherapy**
- **Shared Equipment Procurement**
  - Mobile and Fixed MRI
  - Sleep Studies/Sleep Labs
  - Cardiac Cath Lab Procurement
  - Audiology Booth
- **Shared ER Renovation – Improved Fast Track/Triage**





# Recognizing the Data Mart as a Tool

- **The Data Mart is a TOOL**
- **Things to remember:**
  - Best used as PART of a Decision Making Process
  - Many circumstances affect the reported data
  - Further exploration is always needed before decisions are made





# Using the Data Mart in a Decision Making Process



- **A Decision Making Process could include:**
  - Establishment of Evaluation Criteria and rating system:
    - Expenditures
    - Referrals
    - Authorized Manpower
    - On board staffing
    - Capacity
    - Physical space
    - Equipment availability
  - A Product Line Analysis
  - Discussions with Relevant Leadership on potential findings
  - Analysis of Agency Strengths, Weaknesses, Opportunities and Threats (SWOT)





# Using the Data Mart in a Decision Making Process



- **A Decision Making Process could include:**
  - Inclusion of Additional Agency Specific Data Sources along with the Data Mart
    - Service Inventories (Clinical and Administrative)
    - Unit Manning Document - Personnel Management Report  
Manpower Summary Document (DoD)
    - Organizational Charts (VA)
    - Locally created Contract Resources Report
    - SG EGL (Air Force Surgeon General Executive Global Look) Report - formally P2R2
    - Local Med Group Capability Summary for Multi Service Market
    - DSS Dispersed Amount Fiscal Year Inpatient Contract Hospital Report (VA)
    - Prime Containment Report (Leakage Report) DoD
    - Clinic Wait Time Report (VA)
    - Medical Center Master Space Plan (VA)





# Data Mart Benefits



- Apples to Apples
- Because the Data Mart compares VHA and DoD Workload and Costs by the same mapping it can serve to:
  - Highlight POTENTIAL sharing opportunities
  - When Combined with other Agency specific reports can:
    - Highlight potential combined contract opportunities
    - Highlight potential shared staffing opportunities
    - Highlight potential joint equipment purchases
    - Highlight potential for shared space agreements





# Future Plans for the Data Mart



- **Adding Existing Markets to Existing Cubes**
- **Development of a new Purchased Care Cube with Army/Navy**





# On-Going Work



- **Continue work on Data and Tools**
- **Continued training on tools**
  - 19 Catchments already trained on purchased care cube
- **Additional surveys on usability and value**
- **Additional clean-up & refinement of Product Line mappings**
- **Additional common vendor work**
- **Additional review of Zip Code to Catchment**
- **Additional Marketing to High Yield Catchments**





# Additional Training and Resources



## VA

- **VHA Support Service Center (VSSC) Website**  
<http://vssc.med.va.gov>
- **VSSC Training**  
<http://training.vssc.med.va.gov/Lists/Events/MyItems.aspx>

## DoD

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