Electronic Medical Record Extracts

for a Personal Health Record

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Objectives

- Importance of Clean Data
 - Three mitigation strategies
- Pros & Cons:

Standardized Data vs. Natural Language

- Ability to filter information
- Stakeholder Management
 - Requirements

Challenges

- Know Your Data
- Ensure Data Quality
- Stakeholder Management
 - Addressing healthcare team concerns
 - Engaging users
 - Meeting information needs



- Historic vs. Current
- Sensitive Information
- Evidence-based vs. Common Practice

Know Your Data

- Historic vs. Current
 - Laboratory reference values

Chemistry/hematology

Chemistry/Hematology

Personal Health Record of

Information last updated in My HealtheVet on 06/03/2009 at 09:20.

Help 1 Printer Friendly

Chemistry/Hematology Summary

Results of tests performed at your VA facility are listed below. Select the Date/Time the test was collected to view test result details.

12 test records found, displaying 1 to 10

First/Prev 1, 2 Next/Last

Number of rows to display per page: 10 25 50 100

Date/Time Collected	\$ Specimen	Location
04/29/2008 00:00	SERUM	DAYTON
01/23/2007 00:00	SERUM	DAYTON
11/18/2004 13:08	URINE	DAYTON
11/18/2004 13:08	BLOOD	DAYTON
11/18/2004 13:08	SERUM	DAYTON
02/01/2001 08:54	SERUM	DAYT3
02/01/2001 08:54	SERUM	DAYT3
02/01/2001 08:54	BLOOD	DAYT3
02/01/2001 08:54	URINE	DAYT3
02/08/2000 08:28	URINE	DAYT3

12 test records found, displaying 1 to 10

First/Prev 1, 2 Next/Last

Number of rows to display per page: 10 25 50 100

This information is a copy of your VA medical record, and may not reflect the most recent changes. If you think the information is not accurate, please contact your VA facility directly.

Chemistry/hematology

Chemistry/Hematology

Personal Health Record of WWG GAVE AND THE

Information last updated in My HealtheVet on 06/03/2009 at 09:46.



Help 0 | Printer Friendly

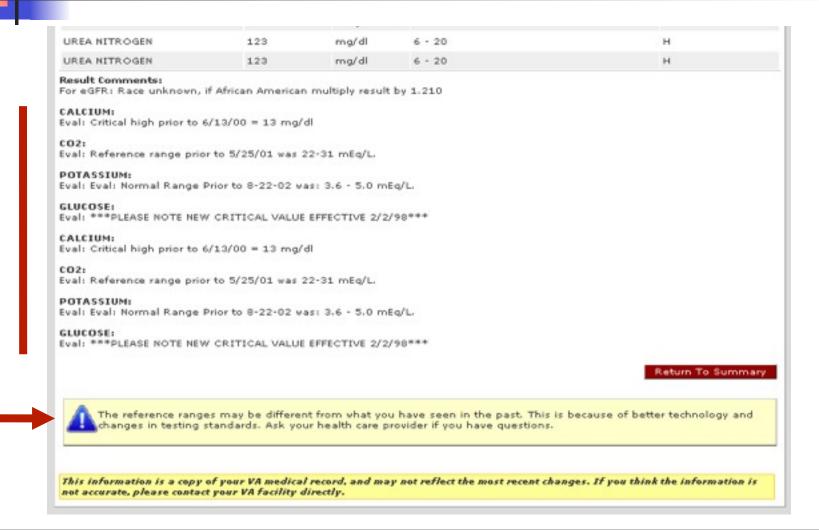
SERUM Specimen

Collected on 04/29/2008 00:00 at DAYTON

Test results slightly outside the reference range are not unusual. Your provider has reviewed your test results and will contact you for any important issues. If you have further questions, please do not hesitate to contact your primary care provider.

Test Name	Result	Units	Low - High Reference	Indicator
ANION GAP	3.0	mEq/L	5 - 17	L
ANION GAP	3.0	mEq/L	5 - 17	L
CALCIUM	23.0	mg/dl	8.5 - 10.5	H*
CALCIUM	23.0	mg/dl	8.5 - 10.5	Н*
CHLORIDE	1	mEq/L	98 - 108	L
CHLORIDE	1	mEq/L	98 - 108	L
CO2	2	mEq/L	23 - 33	L

Chemistry/hematology



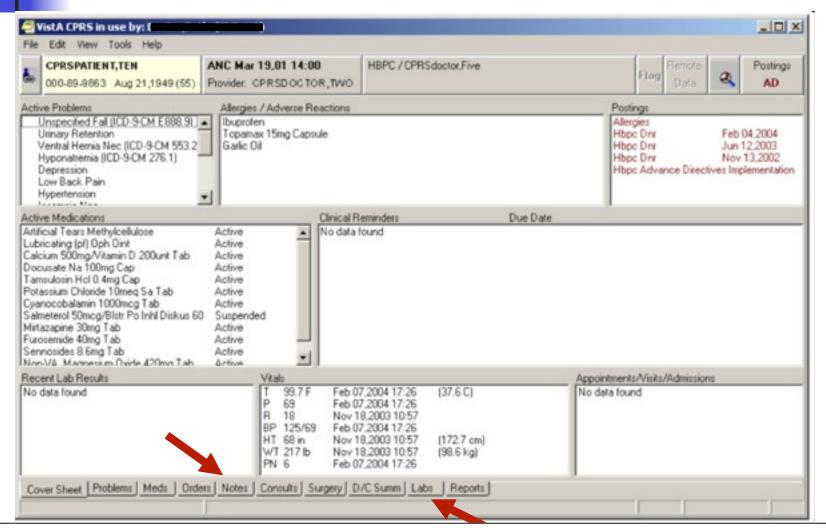


- Sensitive Information
 - Chemistry/hematology & HIV results
 - Inconsistent documentation

Documentation

- Possible sources
 - Progress note
 - Physician
 - Nurse
 - Clinic
 - Template
 - Lab result comment

EMR Documentation



VHA Directives

VA Public Health Portal Links

- Public Health Strategic Health Care Group vaww.vhaco.va.gov/phshcg
- VA Smoking & Tobacco Use Cessation Program vaww.vhaco.va.gov/phshcg/smoking
- VA HIV/AIDS Web site vaww.hiv.va.gov

- VA Hepatitis C Web site vaww.hepatitis.va.gov
- Infection: Don't Pass It On vaww.vhaco.va.gov/phshcg/InfectionDontPassItOn
- Center for Quality Management in Public Health vaww.vhaco.va.gov/phshcg/cqm
- New Directive on "National HIV Program" (VHA Directive 2008-082)
 http://vaww.hiv.va.gov/vahiv?page=prin-va-2008-082
- New Directive on "National Smoking and Tobacco Use Cessation Program" (VHA Directive 2008-081)
 http://vaww1.va.gov/vhapublications/ViewPublication.asp?pub_ID=1809



- Evidence-based vs. Common Practice
 - Informed decision-making
 - PSA results tracking

Clinical Content Submission Form



User Request

If you have a technical question related to the My HealtheVet website, please fill out the form below completely, and click Submit. Our goal is to reply to your questions by the next business day.

Date of Birth [*may be required]

Month: Day: Year:

Month Day Year Day Year Phone Number: [*either email address or phone number is required]

Subject of this contact: *

Future Functionality

Comments: *



Indicates Required Information

Informed Decision-making

Shared Decision-Making® Programs

End of Life Programs

Peace of Mind: Personal Stories about Advance Directives

Current Version: POM001 v.02

Heart Disease Programs

Treatment Choices for Coronary Artery Disease

Current Version: CAD001 v.02

Living with Coronary Artery Disease: Doing Your Part

Current Version: CAD002 v.02

Living with Heart Failure: Helping Your Heart Day-to-Day

Current Version: CHF001 v.01

Mental Health Programs

Coping with Symptoms of Depression

Current Version: DEP001 v.01

Orthopedic Programs

Treatment Choices for Hip Osteoarthritis

Current Version: HIP001 v.01

Treatment Choices for Knee Osteoarthritis

Current Version: KOA001 v.02

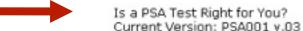
Prostate Programs

Treatment Choices for Benign Prostatic Hyperplasia

Current Version: BPH001 v.02

Treatment Choices for Prostate Cancer

Current Version: PCA001 v.02



Mitigation Strategies

- Policy & Standard Operating Procedure
 - Laboratory reference values
 - Implementation of tools for information dissemination
- Workgroup to Address Issues
 - Documentation
 - Organizational culture
- Education
 - Collaborative decision-making
 - Informed consumer

Data Quality

- Data Standardization
 - Laboratory test names
 - Actual vs. placeholder appointments
- Duplicates
 - Wellness Reminders
- Meta Data
 - Consistent use of terms
 - Alt tags
 - JAVA script for Web analytics
 - Search engine implications

Risk Tolerance

- Filter Information
 - Accurate information
 - Assess degree of harm
- Provide Instructions
 - What to do if problem occurs
- Plan for Meta Data
 - Written guidance



- Requirements
 - Addressing healthcare team concerns
 - Engaging users
 - Meeting information needs

Stakeholder Management

- Fear of Inundation
 - Workload credit
 - Operational efficiency
- Confusion of Users
 - Medical vs. lay terminology
 - Problem List
 - Progress Notes

Requirements & Feedback

- Healthcare Team
 - Policy
 - Data collection
 - Dashboard for feedback
- Consumer
 - Help
 - Data collection
 - American Customer Satisfaction Index

Widget



Security Alert



Widget Sub-text



American Customer Satisfaction Survey

- Quarterly Satisfaction Insight Reviews (SIRs)
- Cycling Custom Questions
 - Maximize data collection
 - Minimize survey length
- Response Rate 17%
 - ForeSee average is 6.5%
- Data Segmentation
 - Sub-groups of interest
- Priority Map
 - Top priorities for improvement
- My HealtheVet Implemented October 2007



Priority Map

Where are the best opportunities for My HealtheVet to increase customer satisfaction?

STATUS QUO REQUIRED

MAINTAIN OR IMPROVE



Key: Position of each bubble indicates its score and impact. Size of each bubble also indicates the relative size of impact



- Discuss
 - Data quality issues & mitigation strategies
 - Data standardization vs. natural language
 - Stakeholder management & requirements

Sites & Demo Account

- My HealtheVet National Site www.myhealth.va.gov
- My HealtheVet National Demo Account www.myhealth.va.gov
 - Username: mhvuser
 - Password: mhvdemo#1





