December 19, 2003

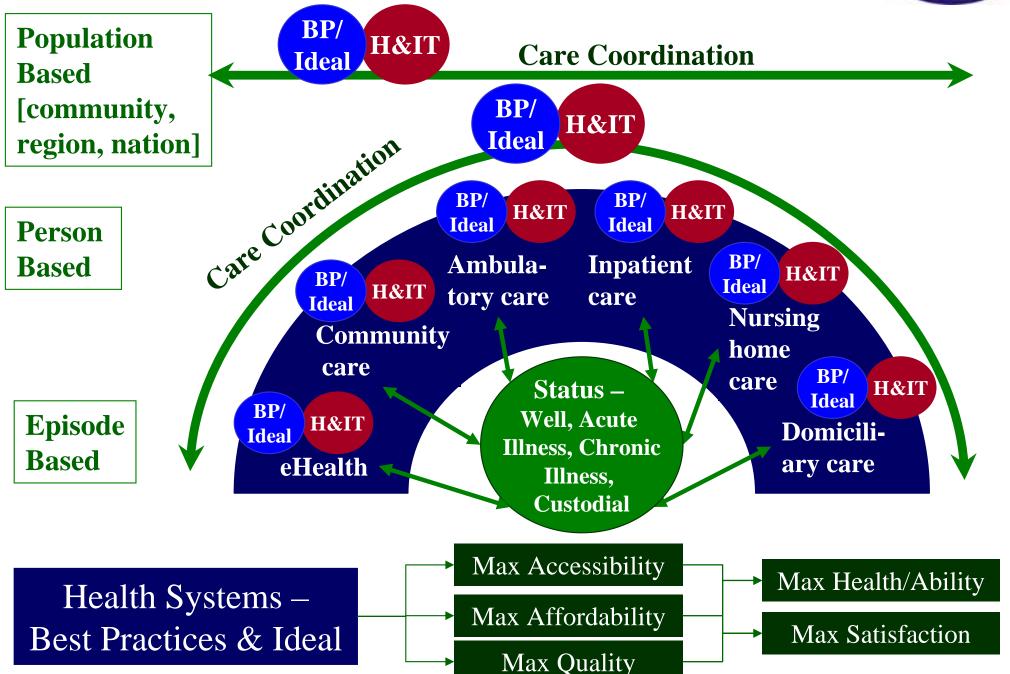
Toward Ideal Health & Health Information Systems

# Presentation to NHII Workgroup

Gary A. Christopherson
Senior Advisor to the Under Secretary
Veterans Health Administration, Department of Veterans Affairs

## Maximize Health/Ability & Satisfaction







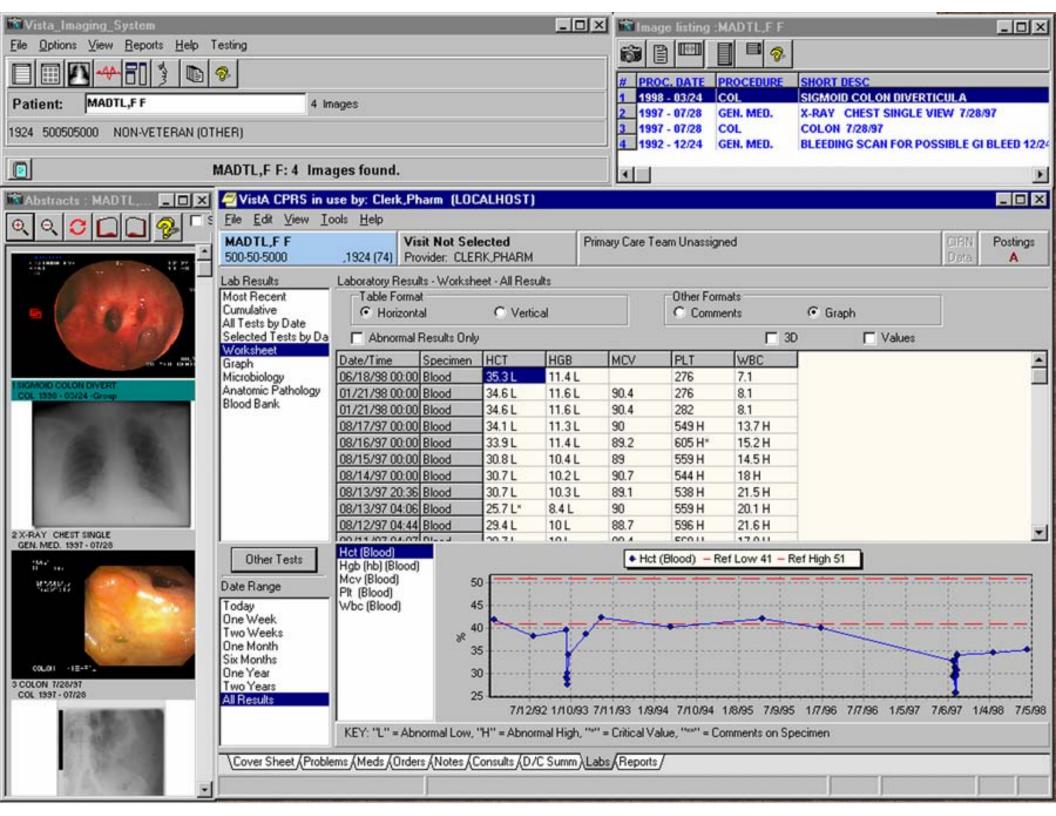
"VHA's integrated health information system, including its framework for using performance measures to improve quality, is considered one of the best in the nation."

Institute of Medicine (IOM) Report, <u>Leadership by Example:</u> <u>Coordinating Government Roles in Improving Health Care Quality</u> (2002)

# Success in supporting health delivery for millions of veterans



- VistA/CPRS was & is a success
  - Built by "fire" of VHA collaboration
  - Publicly owned by VA; could be for future as well
  - Strong interest by public/private in using VistA
- Largest integrated health info system for nation's largest integrated health system
- Helps serve 4.1 million American veterans annually
- Supports:
  - \$23+ billion nationwide health system
  - 1,300 care sites, incl. 163 hospitals & 800+ community & facility based clinics
  - 180,000 health care staff; 85,000 trainees
- Considered best overall health information system



# VistA - Why change?



- Not lose functionality we have
- Strengthen VistA
  - Move to person & data focus
  - Move to standardized, fully sharable health data
  - Modernize & replace older systems
  - Ensure documentation on application programs
  - Move to modern technologies
  - Increase flexibility to respond to future health needs
  - Lower cost of maintenance
- Support our future health system

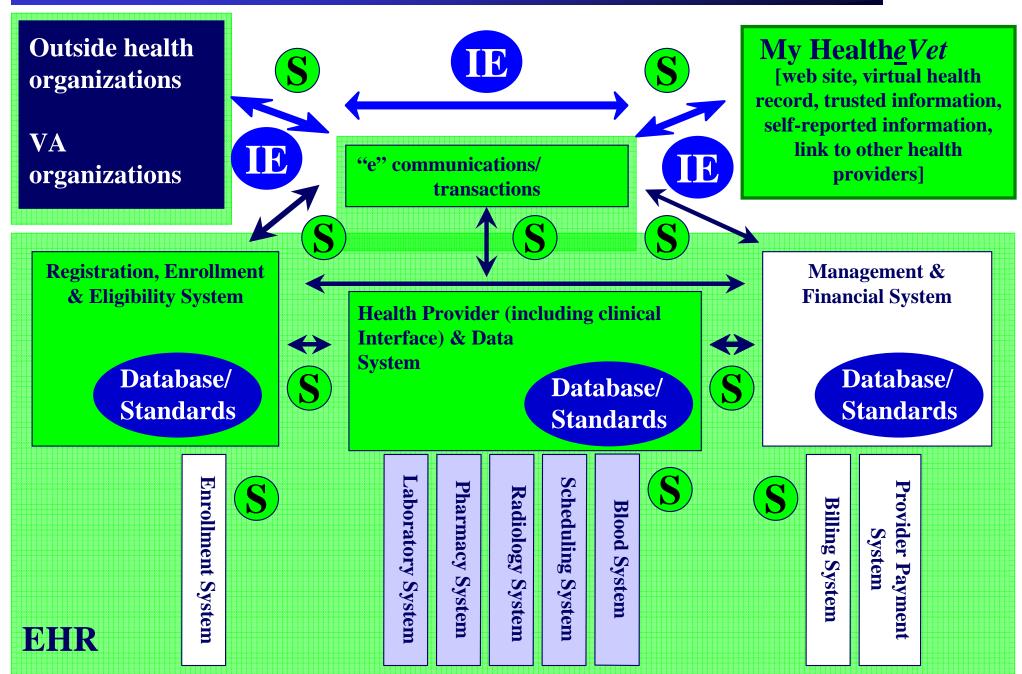
# Healthe Vet – strategy overview



- Moves from facility-centric to person/data-centric
  - •Uses national, person-focused health data repository for production & management/analysis/research
- Builds on, enhances & utilizes VistA
  - •Moves from legacy VistA to Healthe Vet-Vista
- Uses best, appropriate modern technology
  - •Programming, software, hardware, networking
- Moves "core" applications to run "enterprise-wide"
- Standardizes core data & communications
- Enhances the five major systems
  - •Regis./eligibility/enrollment, health data, provider, management/financial, "e" commun./transactions
- Enhances cross-cutting
  - •Security/privacy, architecture, data quality/standards, infrastructure, enterprise system/resources management

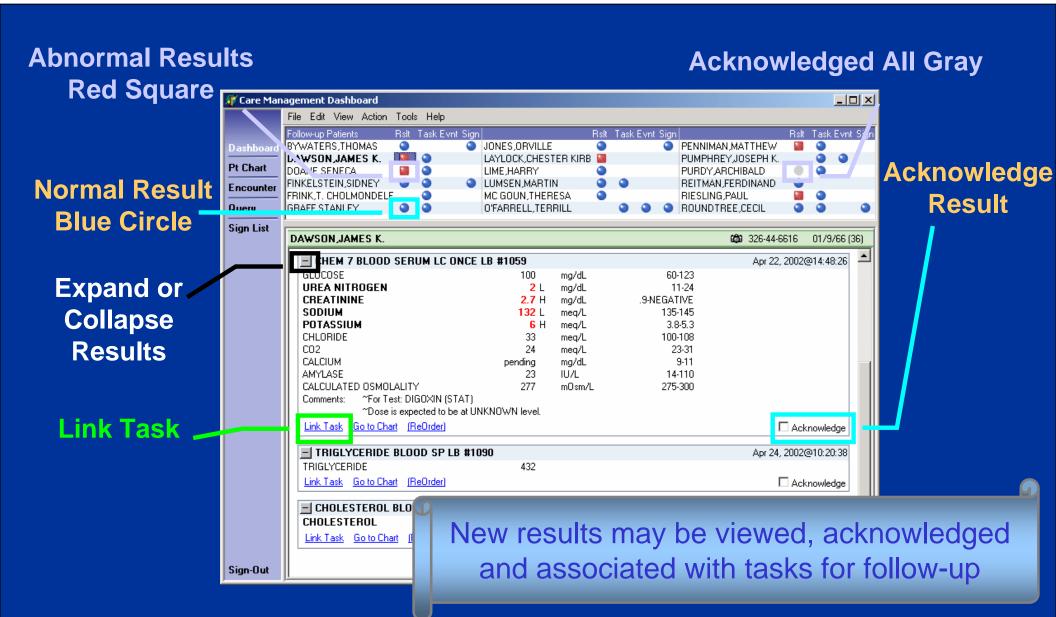
# NextGeneration Healthe Vet-VistA - High Performance Info System Components/Links/Standards





### What is Care Management? (Clinician Dashboard)





## VistA to Healthe Vet (incl. Healthe Vet – VistA)



VistA Legacy (Maintenance/Enhancement until "Retirement") [Current – 2005]

2000 2001 2002 2003 2004 2005 2006 2007 **Enterprise Architecture Strong Project Management VistA Imaging** Fee **Billing High Performance Network/Infrastructure** Secure systems/infrastructure **Health Data Repository** Healthe Vet-VistA (Person/Data-Centric Next Generation VistA) (2005-) **Scheduling High Performance Workforce Pharmacy** Laboratory

# Toward NHII and a"Virtual Health System"



#### •EHRs –

- Provide financial incentives
- •Strongly encourage private sector vendors to make available affordable, high quality, standards-based EHRs
- Strongly encourage provider-based efforts like AAFP
- •Continue to improve Health ePeople-VistA & make available

#### •PHRs –

•Strongly encourage public/private sector to work together to develop & make available PHRs for persons

## •EHR/PHR Info Exchange (IE) –

•Strongly encourage public & private sector to work together to develop & make available national "exchange" solution

#### •Standards –

- •Consolidated Health Informatics as federal leadership
- •Strongly encourage public/private development/adoption of national standards

# Toward NHII and a "Virtual Health System" – Veterans Health Administration Role



- VHA push EHRs, PHRs, EHR/PHR Info Exchange & Standards in Federal and nationwide
- VHA support of NHII
- EHRs VHA
  - •Current -- VistA electronic health record system
  - •Next generation -- Health<u>e</u>Vet-VistA
  - •Public version -- Health<u>e</u>People-VistA
- PHRs VHA
  - •My Health<u>e</u>Vet
- EHR/PHR Info Exchange (IE) VHA
  - •Federal Health Information Exchange with DoD
  - •EHR Interoperability (Healthe People (Federal) with DoD & IHS
- Standards VHA
  - Adoption of VHA-wide standards
  - Adoption of standards between VA and DoD and VA and IHS
  - Consolidated Health Informatics

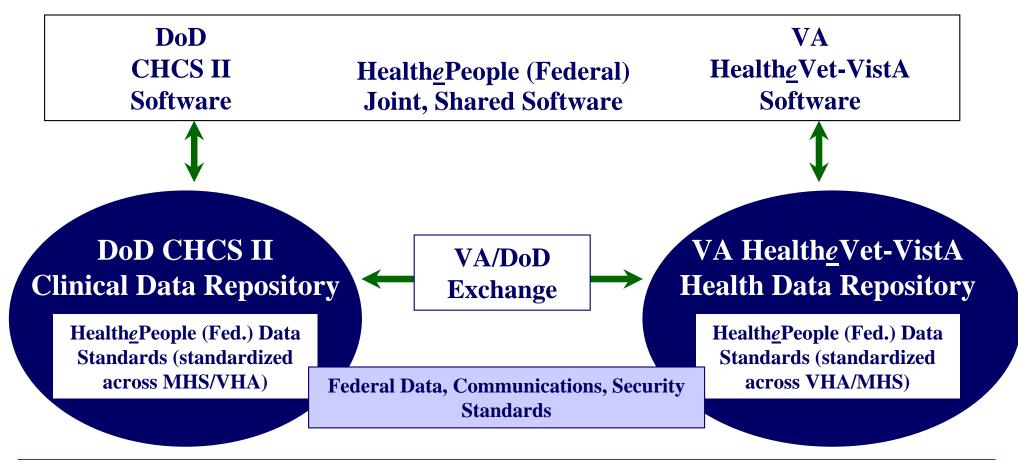
## Toward NHII and a "Virtual Health System" <u>Veterans Health Administration Activities</u>



- VA/DoD Electronic Health Record (EHR) System
- Health Informatics Standards, Federal Health IT Architecture, & related Federal eGov Initiatives
- State Veterans Homes & VistA/CPRS
- Indian Health IT Sharing
- AAMC & Affiliated Medical Schools & VistA
- Federal/State/Local) Health Info & VistA Sharing
- EHR/PHR Info Exchange (IE)
- Personal Health Records & Home Tele-Health Care
- Public Health Info Systems/Databases & VistA Data
- Private Sector/Non-Government activities
- International Healthcare Community & VistA

# Computerized Health Records (FY 2005+)





**Standards** – Jointly use data, communications, architecture, security, technical, software standards; federal standards & potential national standards across public/private sector

**Software** – VA/DoD/Joint high performance software

**Databases** – Separate; enterprise-wide w/i each agency

Hardware – Separate; mix of enterprise & local w/i each agency

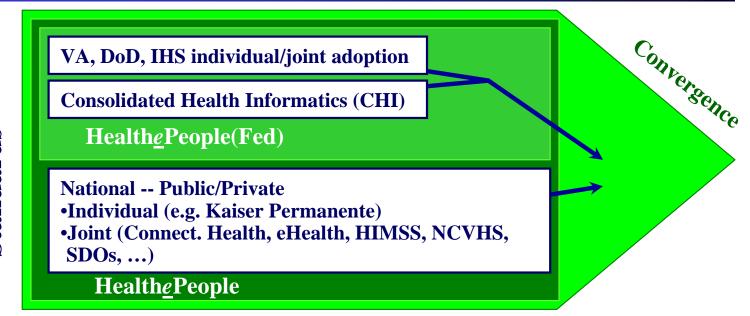
**Exchange** – Two-way VA/DoD

## Toward NHII and a"Virtual Health System"



Health Information

Systems



National Health Information Standards

Info Exchange / Sharing

High Performance Health Info Systems

Personal Health Record Systems

Convergence

#### **DoD CHCS II**

VA Healthe VetHealthe People-VistA

**IHS (upgraded RPMS)** 

Healthe People (Fed)

Public/Private (NHII, CMS, VA, health providers/payers/regulators, private sector vendors)

Health<u>e</u>People

2001

2010

"Electrifying"

1/7<sup>th</sup> of US Economy