# Using Technology and Outreach to Fuel Diversity in VA Research

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Overview of EHR Transition for Research Maria Souden, MSI, PhD

ORD Research Volunteer Program David Thompson, DBA

Clinical Trials Management Solution Kousick Biswas, PhD The EHR Transition for Research: Status of Deployment and Anticipated Impacts

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### Where are we in the rollout? Recently adjusted VA EHR Deployment Schedule\*



- Mann-Grandstaff (Spokane) has been using VA's new electronic health record (EHR) since October 24, 2020. Since then, four additional Medical Centers have deployed (see table below).
- To meet site and system readiness needs, EHRM recently announced a revised deployment schedule.

VISN	Facility	FY 2022	
20	Walla Walla, WA	Deployed 3/26/22	
10	Columbus, OH	Deployed 4/30/22	
20	White City, OR	Deployed 6/11/22	
20	Roseburg, OR	Deployed 6/11/22	
20	Boise, ID	July 23, 2022 POSTPONED	

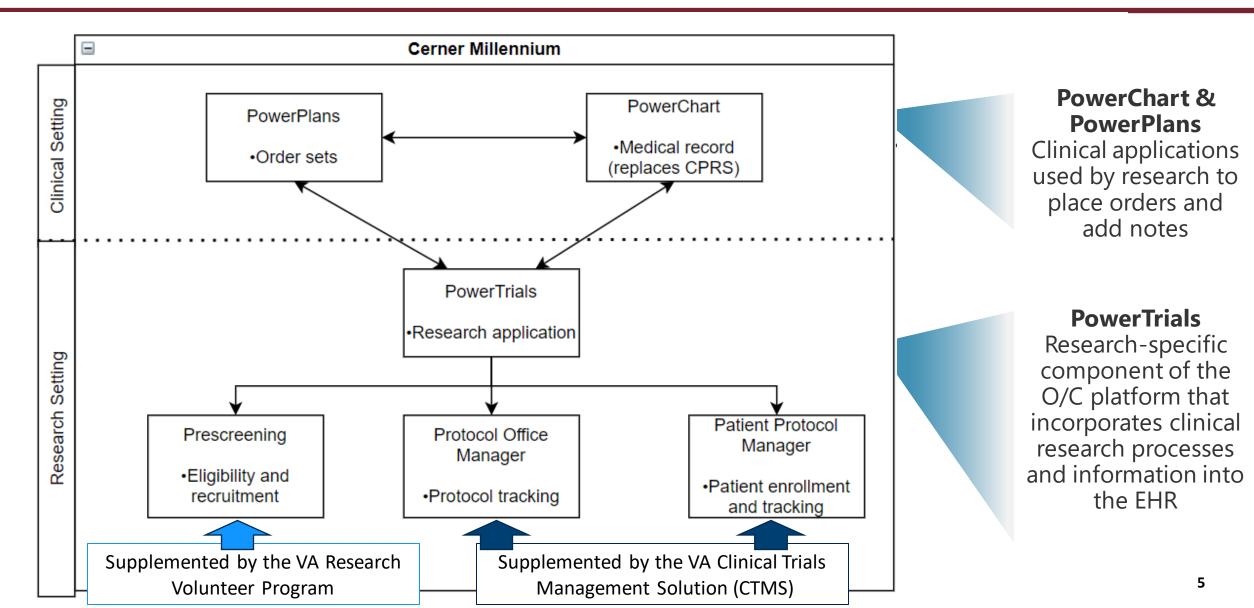
VISN	Facility	FY 2023**	
10	Ann Arbor, MI (with Battle Creek, Lutz, and Saginaw)	January 28, 2023	
20	Puget Sound, WA (incl. Seattle and American Lake)	March 4, 2023	
10	Cincinnati/Dayton/Ft Thomas	March 25, 2023	
20	Portland, OR (with Vancouver, WA)	April 22, 2023	

Green = large research presence Yellow = smaller research \*\*Additional research sites planned for second half of FY23: Detroit, Milwaukee, Madison, Cleveland, Indianapolis, Hines, Jesse Brown

\*All dates are provisional, contingent on site and system readiness, and contract status.

# How is research conducted within the new Oracle/Cerner EHR?

ORD Strategic Initiative for Research & EHR Synergy



### When does a study use PowerTrials?

ORD Strategic for Research Initiative & EHR Synergy

- Required when:
  - Placing orders (PowerPlans)
  - Using PowerTrials pre-screening
- Benefits:
  - Tracking features
    - Protocol Office Manager (POM) for tracking protocol
    - Patient Protocol Manager (PPM) for tracking enrollment
  - Integration of research into EHR/clinical care

See <u>EHRM and research RRG page</u> for more information and resources

### How can PowerTrials *potentially* support research?

- 1. Prescreening: Identify, screen, and support recruitment of patients that meet eligibility criteria
- 2. Facilitating communication between clinical care and research:
  - Clinicians can see details about patient participation in clinical research
  - Study teams can get notifications about clinical events
- 3. Tracking studies can create reports including number of prescreened patients, enrolled patients, patients in each study stage, etc.
- 4. Separating charges for research-related tests and procedures from clinical care
- 5. Improved billing
  - Study team can set up uniform charging to research accounts per protocol and/or sponsor.
  - Works with PowerPlans so study teams can attach research orders to a research charge

OSIRE

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# What issues is ORD currently working with Cerner and EHRM-IO to ensure the new EHR is ready for research?

ORD Strategic for Research

- PowerPlan creation
  - Inadequate scope of Cerner contract
    - Need to build in-house to ensure proper sustainment (new studies and changes)
  - Populating for optimal ordering and billing
- Building investigational medications in the National Drug File
  - More complex process in this system
  - Increasing capacity to build and sustain research medications
- Billing and charge delineation
  - Differentiating research orders from Standard of Care
  - Accurate accounting of study participants and procedures for sponsor billing
- Improving implementation of complex PowerPlans
  - Particularly oncology trials involving regimens and/or time offsets

# How is research done with data generated from the new Oracle/Cerner EHR?



- Data populated into new EHR at five live sites are being syndicated back to the Corporate Data Warehouse (CDW)
- Available in the Millennium-native format in CDW Work2
  - Dramatically different from current CDW model
- CDW Work2 data are integrated with current VistA CDW into CDW Work3
  - Familiar model useful for understanding translation between the two, but incomplete due to differences
- Future data model will be more Millennium-centric
- Data quality and data knowledge are evolving and changing; patience and flexibility will be required

# How will researchers obtain data generated from the new Oracle/Cerner EHR?

- ORD Strategic for Research
- Right now, data generated by the new EHR at the existing five sites are available for use by approved projects
- Data are requested and provisioned through current processes (DART)
- VINCI's Data Services Team will assist projects in identifying the best data to meet study needs
- Studies in process can email <u>VINCl@va.gov</u> and ask for a data needs assessment
- Other questions about Research and EHRM data <u>ResearchEHRMHelp@va.gov</u>

# How will study activities be affected by the new EHR?



	EHR Utilization			
Study Need	Interact with PowerChart	Interact with PowerTrials*	Use syndicated data from the new EHR	
Screen patients for eligibility	Optional	Optional	Optional	
Enter notes into the patient chart	Required	Optional		
Create encounters or appointments	Required	Optional		
Place orders for tests, medications, procedures	Required	Required		
Retrospective or observational data study	Optional	Optional	Required	
Use custom data collection templates/alerts	•	Implementation/capabilities unknown		
Modify clinical reminders and alerts	Implementation/capabilities unknown			

#### \* Affected: Sites within a year of deployment, multi-site studies using the EHR for the conduct of research\*

- Ensure studies are up-to-date in VAIRRS and have accurately completed a project cover sheet and where appropriate the IRB information sheet.
- Study activities/administration may be affected by the deployment in ways that may be unexpected (e.g., ordering, documentation, recruitment). Studies with complex EHR interaction should reach out to <u>ResearchEHRMHelp@va.gov</u>.
- Studies with certain EHR needs (e.g., ordering, billing) may need to use PowerTrials. The OSIRES deployment support team will work with studies to prepare for this well in advance of go-live.
- Stay aware of and respond to outreach from OSIRES and the Research Sub-Council to connect with study staff this is how study needs will be identified and supported.
- \* Investigators *conducting multisite studies at upcoming deployment sites* may also want to be in touch with local site staff to be updated on deployment activities and anticipate their impact.

#### \*Affected: all VISNs, all sites using national data\*

**All studies using national data** will be increasingly affected as go-lives continue/accelerate.

- Research and analytic staff can engage in a range of activities:
- Become familiar with **Data Education and Knowledge Resources** being created across VA (see Resource Summary presentation – linked left) werPoint Presentat



Adobe Acrobat Document

Ρ

Microsoft

• **Request Millennium data** for appropriate studies to prepare for using the new data (see VINCI Provisioning document – linked left)

• Identify an experienced VA data programmer/analyst to train as an EHRM data "expert-in-residence," participating in organizational data learning and assessment activities (<u>ResearchEHRMHelp@va.gov</u>)



## ORD Research Volunteer Program David Thompson, DBA

What is the Research Volunteer Program
Creating the Research Volunteer Registry
Access and Use of the Registry



### What is the Research Volunteer Program?

VA-wide, centrally managed, program to link research volunteers to VHA research resources and research opportunities.

#### Why are we starting this Research Volunteer Program?

VA research is done to improve Veteran healthcare and wellbeing that relies on Veterans taking part. The program will put Veterans in touch with VHA research that matters to them.

### What is the goal of the program?

Creating and sustaining a modernized connection between VHA Research and Research Volunteers



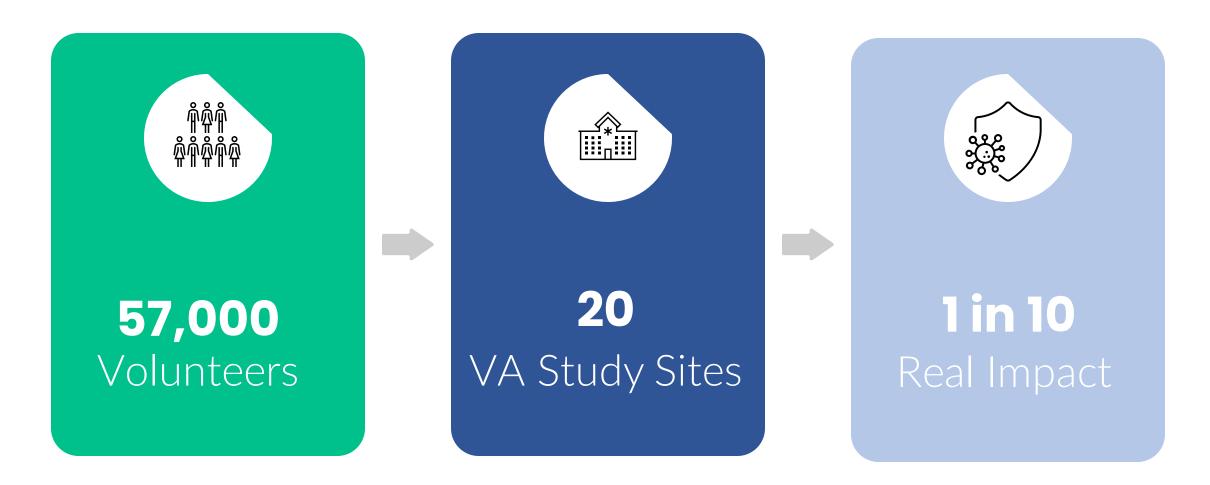
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## **Research Volunteers: VHA Combatting COVID-19**

How the VHA and Veteran Volunteers helped combat COVID-19.





VAp esearch

olunteer Drogram



U.S. Department of Veterans Affairs

#### VHA Research Volunteer Program/Volunteer Registry VAD esearch olunteer Drogram **Volunteer Experience Increased Access to Trials** User Friendly, Veteran-focused. Veterans access research ЩĒ important to them across VHA. **Optimize Valuable Data Diversity, Equity, and Inclusion** Improve accessibility of research to all Veterans. VA data works to improve Veteran care.

#### Veteran Research Community

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Improve information sharing and research visibility

#### **Study Completion and Results**

Reduce study delays and cancellations so research results benefit Veterans.



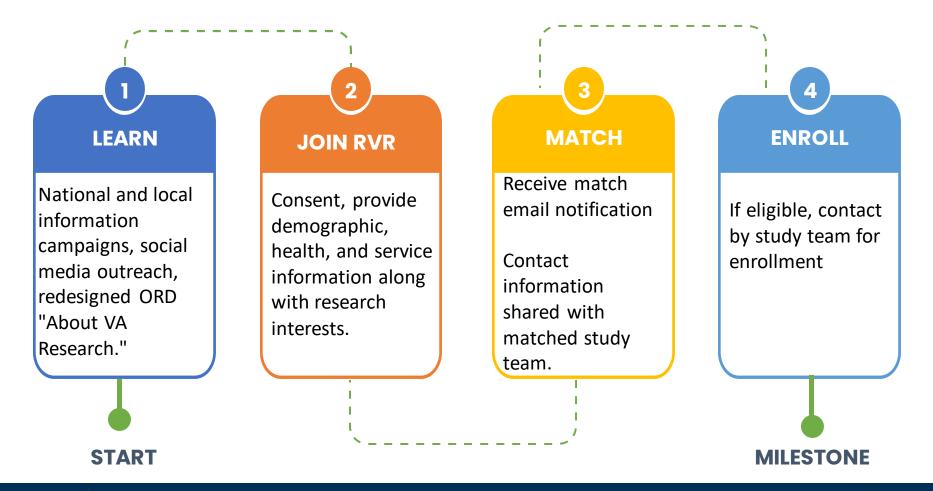




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## **Research Volunteer Registry**

### **Veteran's Enrollment to Participation**





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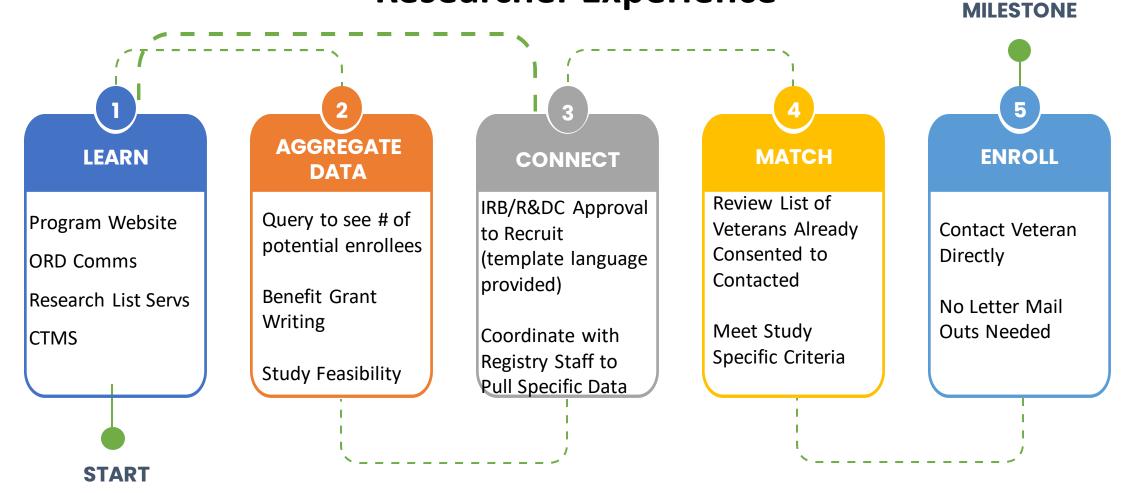
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## **Research Volunteer Registry**

#### **Researcher Experience**



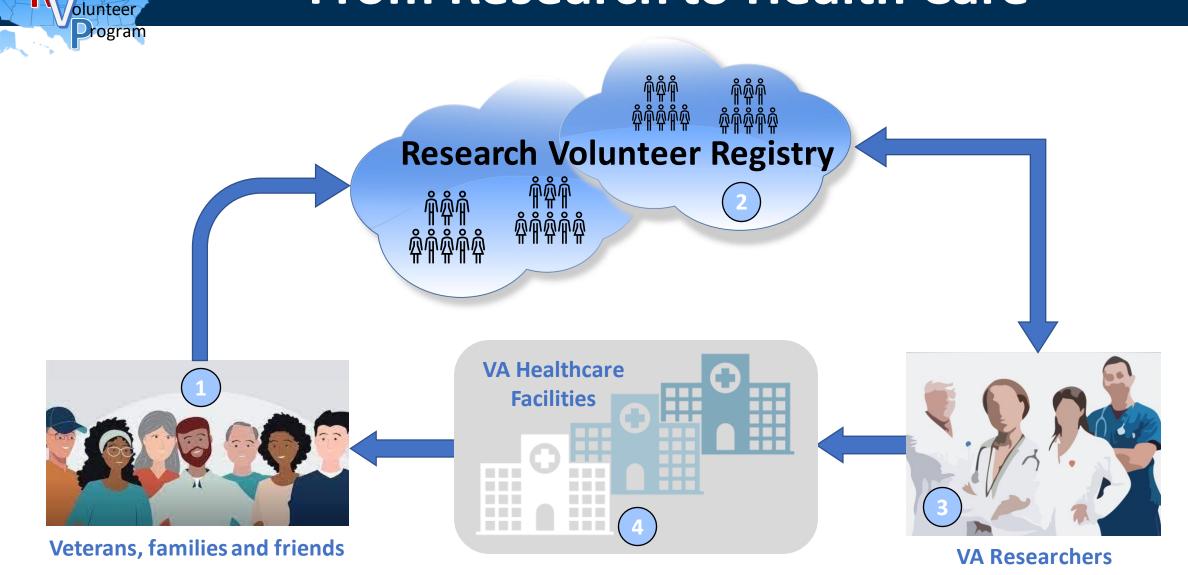


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## From Research to Health Care





VAD esearch





Clinical Trials Management Solution Kousick Biswas, PhD

Conducting/Managing Clinical Trials
 Interfacing with VA Registry
 Interfacing with VA's New EHR

## Clinical Trial Management Solution (CTMS)

- Vendor: Cloudbyz
- Platform: Salesforce Community
- ATO: FISMA High
- Solution: Enterprise for ORD funded clinical trials
  - Exception Can be used for trials funded by other sponsors, only if, approved by the sponsor
- POC @ ORD:
  - Mary (Molly) Klote, MD, Dep CRADO ES
  - Kousick Biswas, Ph.D., Director, CSP Coordinating Center, Perry Point, MD
  - Angela Foster, ORPPE
- Estimated "GO LIVE" date: Spring/Summer 2023

## Clinical Trial Management Solution (CTMS)

#### Portals:

- Investigator Portal
- Sponsor Portal
- CRØ Portal
- Patient Portal
- Modules:
  - eConsent, Trial Administration, Patient Recruitment, eTMF (electronic Trial Management Files), RTSM (Randomization and Trial Supply Management), EDC (Electronic Data Capture), ePRO (electronic Patient Reported Outcomes), Reporting

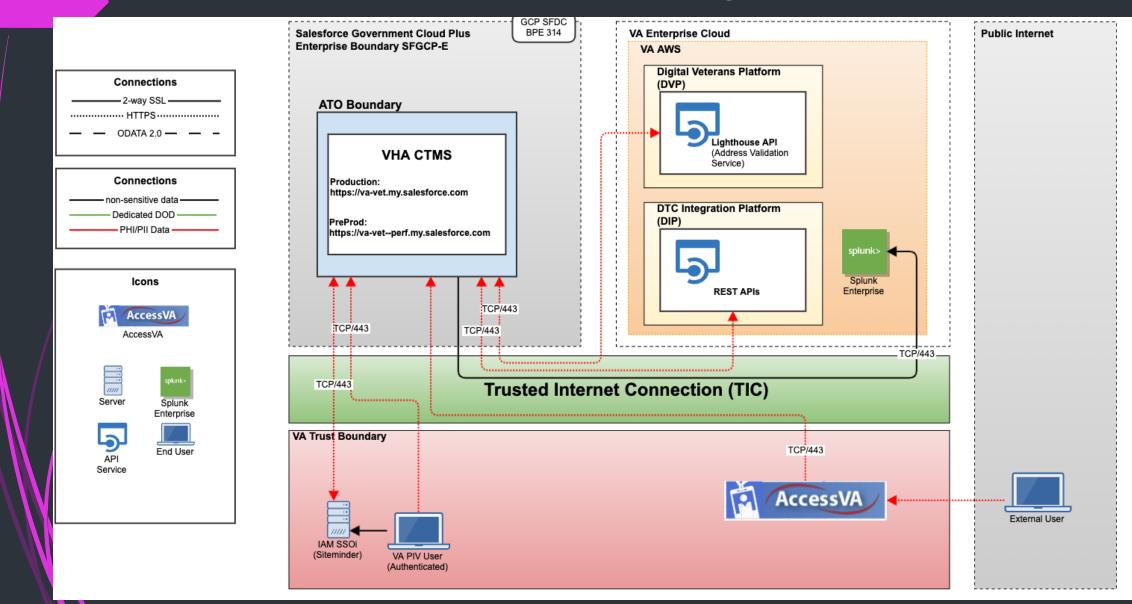
## **Clinical Trial Management Solution**

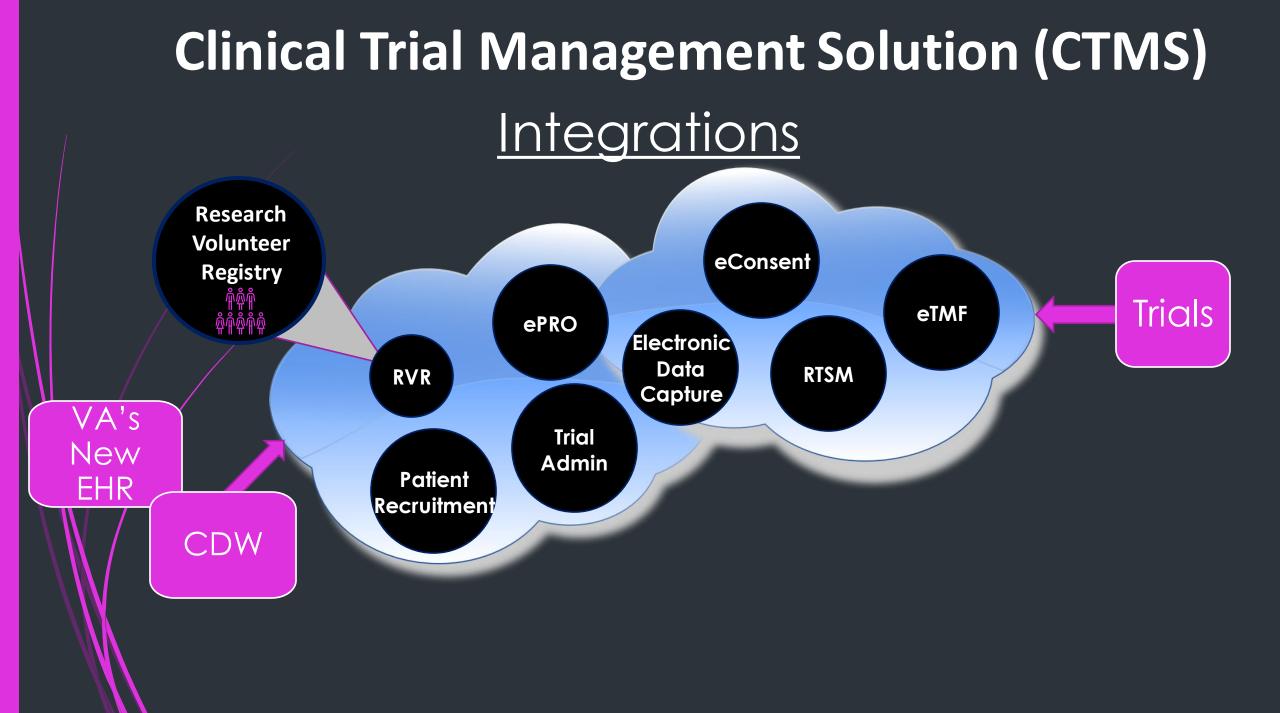


## Connected Clinical Research Processes



## CTMS Architectural Diagram





# Thank you

#### EHRM for Research - Maria.Souden@va.gov

#### CTMS - Kousick.Biswas@va.gov; Angela.Foster@va.gov

Research Volunteer Program - <u>ResearchVolunteer@va.gov</u> David Thompson; Amy Lallier; Gino Mattorano; Eungyoung Han; Nicole Inaba