VistA Point of Care Application Analytics

First-ever VHA clinical workflow analysis based on real-world activity

ITW Brief
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VISTA Point of Care Application Analytics (VPA2)

Summary

Objective

- ***First-ever analysis of VHA's real-world clinical workflows -*** *not notional, assumed practice*
- *Year One: Intra-facilty workflows; Year Two: Inter-facilty workflows (between facilities, including community care)*

Background

- ***VistA systems have been migrated to the VA Enterprise Cloud (VAEC).***
- *VAEC-based VistA enables VHA to measure real-world clinical use of VistA applications (CPRS and others) using VAEC traffic capture and analytics.*
- *Every interaction (mouse click, menu item) of clinical staff using VistA Applications will be captured down to the millisecond and analyzed*

Benefits

- ***Accurate, precise description of VA's current clinical workflows***
- *Enterprise Standardization of clinical workflow*
- *Clinical workflow optimization and efficiency*

Not in scope

- ***No change, interfacing, or reconfiguration of VistA or Vista Applications***
- *No software, database, application, or VistA development.*
- *No acquisition of COTS, GOTS, SaaS, PaaS, IaaS tool or application.*
- *No interfacing, access, or change of any other VA system or application*

Sponsor

CIDMO / FY24-25

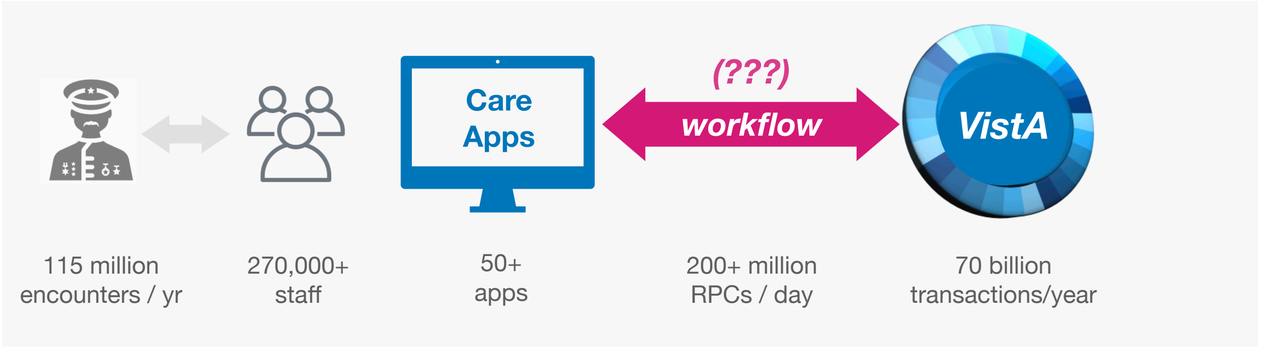
VISTA Point of Care Application Analytics (VPA2)

VISTA Cloud Care Analytics

Veteran Care Workflow

Each day in VA, over 270,000 staff at 1250 VA medical facilities use VistA Point-of-Care Applications (Care Apps) to create, store, and process over 4 million new documents, images, lab, and pharmacy orders in VistA. In FY22, VHA provided over 115 million veteran care encounters using VistA Care Applications.

Veteran Care



Veteran care workflows are currently unmeasured and unknown

Care Apps

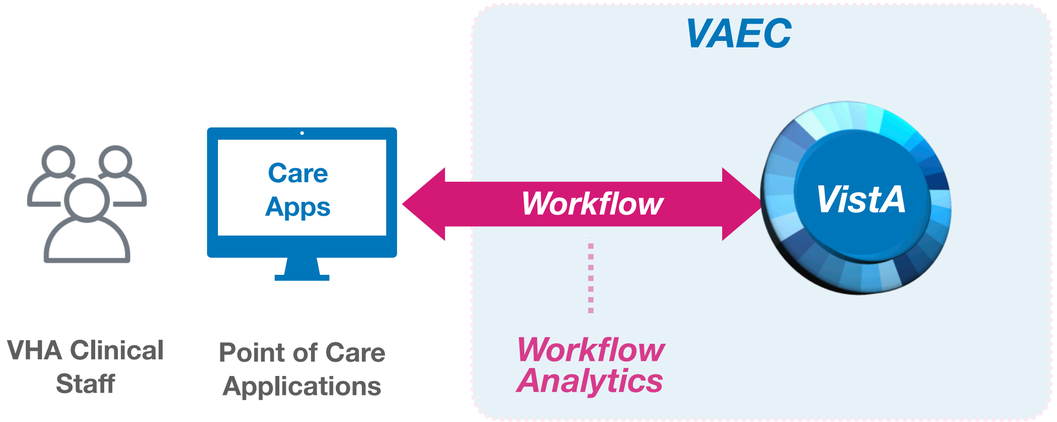
- VistA Point of Care Apps are a suite of 50+ Windows desktop applications installed on all VHA clinical staff workstations at all VAMCs. (Examples: CPRS, Vista Imaging)
- VHA staff using Care Apps interact with VistA for all transactions and workflows using a remote procedure call (RPC) protocol.

VistA

- Contains 500 million veteran-years of cumulative veteran care data and institutional knowledge
- Adds 4 million new documents, lab, imaging, and pharmacy orders each day
- Supports over 200 million transactions each day, all with six sigma reliability.

Veteran Care Workflow Analytics

First-ever VHA clinical workflow analysis based on real-world activity



VPA2 leverages VAEC-based VistA clinical workflow traffic logs, enabling for the first time the analysis of the actual (not notional) clinical workflows of VHA Clinical Staff.

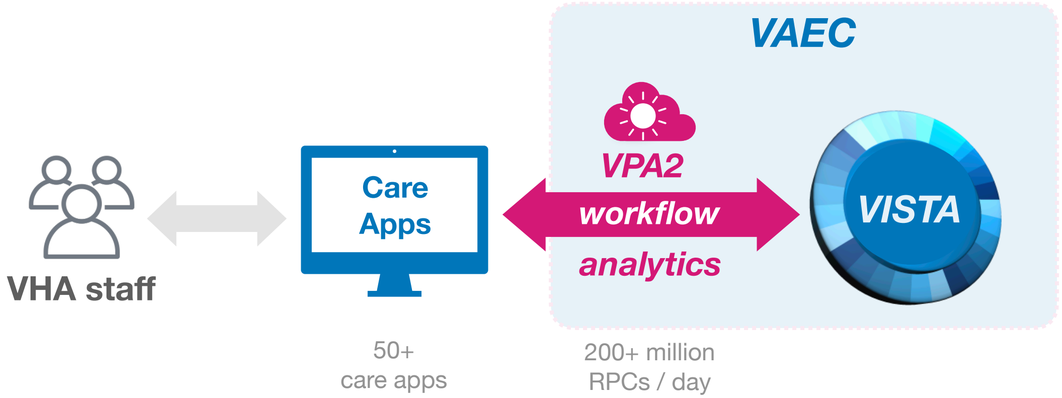
Veteran Care Workflow Analytics

Examples of the first ever real-practice based, Clinical Workflow Analysis in VA

- **Caregiver types and volume of use**
  - Physicians, nurses, administration (100+ other)
- **Time spent on different Care Tasks**
  - Ordering tests, documentation, reviewing labs
- **Clinical Task analysis**
  - Traffic grouped in transactions related to care tasks
  - Example: reading a consult; ordering an image; writing a progress note
- **Scope of clinical data used by Caregiver type**
  - Document types, standard vs VA codings
- **Scope of client use by Caregivers**
  - CPRS, Imaging, (50+ other)

Veteran Care Workflow Analytics

VistA Point-of-Care Application Analytics (VPA2) leverages VAEC traffic logging of VAEC-based VistA to analyze the workflows of Vista Point-of-Care Applications (Care Apps)



VPA2 leverages VAEC logging of the VistA care workflow traffic (RPCs), enabling analytics for the first time of the real-world workflows of VHA clinical staff. VPA2 is analogous to the Cerner "Lights On" analysis functionality.