



# JOINT LEGACY VIEWER (JLV)

## Presenter

Title

Office

Veterans Health Administration (VHA)

Department of Veterans Affairs (VA)

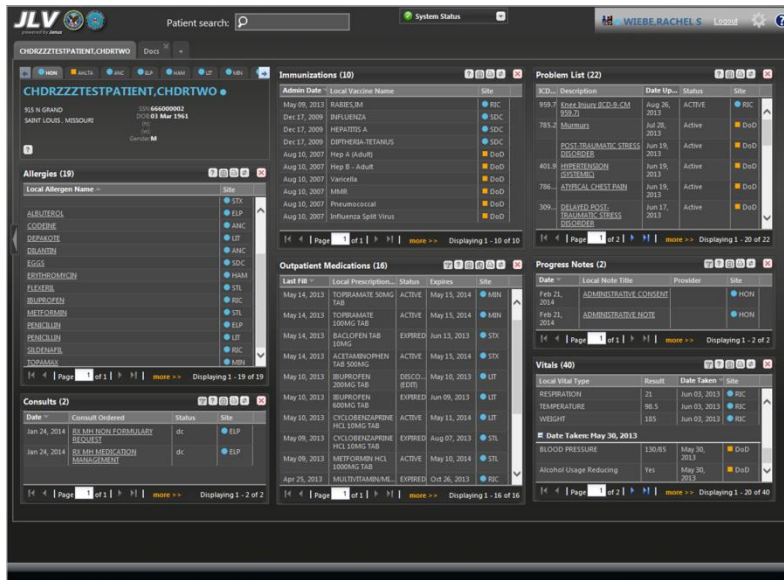
JUNE 2014



# JLV v2.1 OVERVIEW

JLV provides an integrated read-only view of health data from VA and Department of Defense (DoD) sources in a common viewer.

Jointly developed by VA and DoD as an important stepping stone toward interoperability and modernization of our health information systems in support of Wounded Warriors and Veterans.



## Features

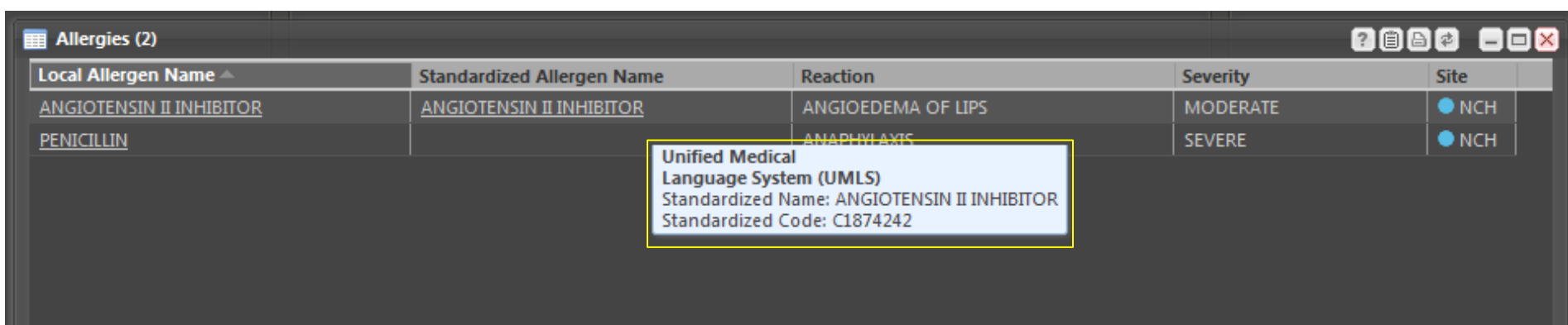
- Web-based Graphical User Interface (GUI)
- Delivers health data from multiple Composite Health Care System, AHLTA Clinical Data Repository and VistA\* hosts
- Seven of the 22 JLV data domains are mapped to National Standard codes, such as SNOMED-CT, LOINC, and RxNorm. These mappings enable correlations (normalization) between DoD and VA data)
- Easy-to-learn, intuitive user interface with customizable widgets and configurable layout
- In production, 508 certified, piloted by >700 unique users

## Benefits

- More complete understanding of patient health status
- Significant improvement in latency and system efficiency as compared to existing viewers
- Supports VHA, Veterans Benefits Administration (VBA) and DoD users and workflows
- Reduces printing, scanning and faxing of paper records
- Designed to support frequent enhancements and upgrades
  - JLV v2.1 current enterprise version
  - JLV v2.2 release planned for September 2014

\*Veterans Health Information Systems and Technology Architecture

# DATA NORMALIZATION ACROSS 7 DOMAINS



The screenshot shows a table titled "Allergies (2)" with the following columns: Local Allergen Name, Standardized Allergen Name, Reaction, Severity, and Site. The table contains two rows of data. A tooltip is displayed over the "Standardized Allergen Name" column for the second row, showing the Unified Medical Language System (UMLS) information for the allergen.

Local Allergen Name ▲	Standardized Allergen Name	Reaction	Severity	Site
ANGIOTENSIN II INHIBITOR	ANGIOTENSIN II INHIBITOR	ANGIOEDEMA OF LIPS	MODERATE	● NCH
PENICILLIN		ANAPHYLAXIS	SEVERE	● NCH

Unified Medical Language System (UMLS)  
Standardized Name: ANGIOTENSIN II INHIBITOR  
Standardized Code: C1874242

- Allergy
- Immunizations
- Laboratory (Chemistry)
- Medications
- Notes
  - Standard note type/title
- Problems
- Vitals

# JLV CURRENT DEPLOYMENTS

DEPLOYED SITES:	DEPLOYMENT DATE	CUMULATIVE USERS May13-Apr14	MONTHLY USERS Apr14
<b>DoD</b>			
673rd Med GRP - Elmendorf	July 2013*	58	17
San Antonio Military Medical Center	May 2013*	93	36
Walter Reed National Military Medical Ctr	June 2013*	63	21
<b>VA</b>			
Alaska VA Health Care System	July 2013*	78	41
Hampton VAMC	April 2013	51	50
Minneapolis VAMC	May 2013*	29	3
VA Palo Alto Health Care System	July 2013*	38	5
Richmond VAMC	June 2013*	62	22
VA South Texas Health Care System	May 2013*	92	17
Tampa VAMC	June 2013*	38	9
<b>SPECIFIC PURPOSE PILOT DEPLOYMENTS</b>			
Veterans Benefits Administration	August 2013	13	13
Washington DC VAMC (Comp & Pen)	August 2013	36	15
VA Pacific Islands Health Care System (Janus)	May 2013	21	11
Development Technical and Functional Testers	May 2013	25	13
		<b>697</b>	<b>273</b>

\*Official deployment date July 31, 2013, but users trained and software available for use as of listed month

# CURRENT VA JLV USERS

- High utilizers of Bidirectional Health Information Exchange (BHIE) (e.g., VistAWeb, Computerized Patient Record System (CPRS) Remote Data View) and other viewers – who seek VA-wide and DoD data to support their workflows
- VHA
  - Polytrauma team members
  - Federal recovery coordinators
  - Compensation and Pension (C&P) clinicians
  - Clinicians serving dual consumers (e.g., DoD retiree receiving Tricare and VA care) or Veterans discharged from Active Duty since 2004
- VBA
  - Veterans Service Representative
  - Rating Veterans Service Representative
  - Military Records Specialist

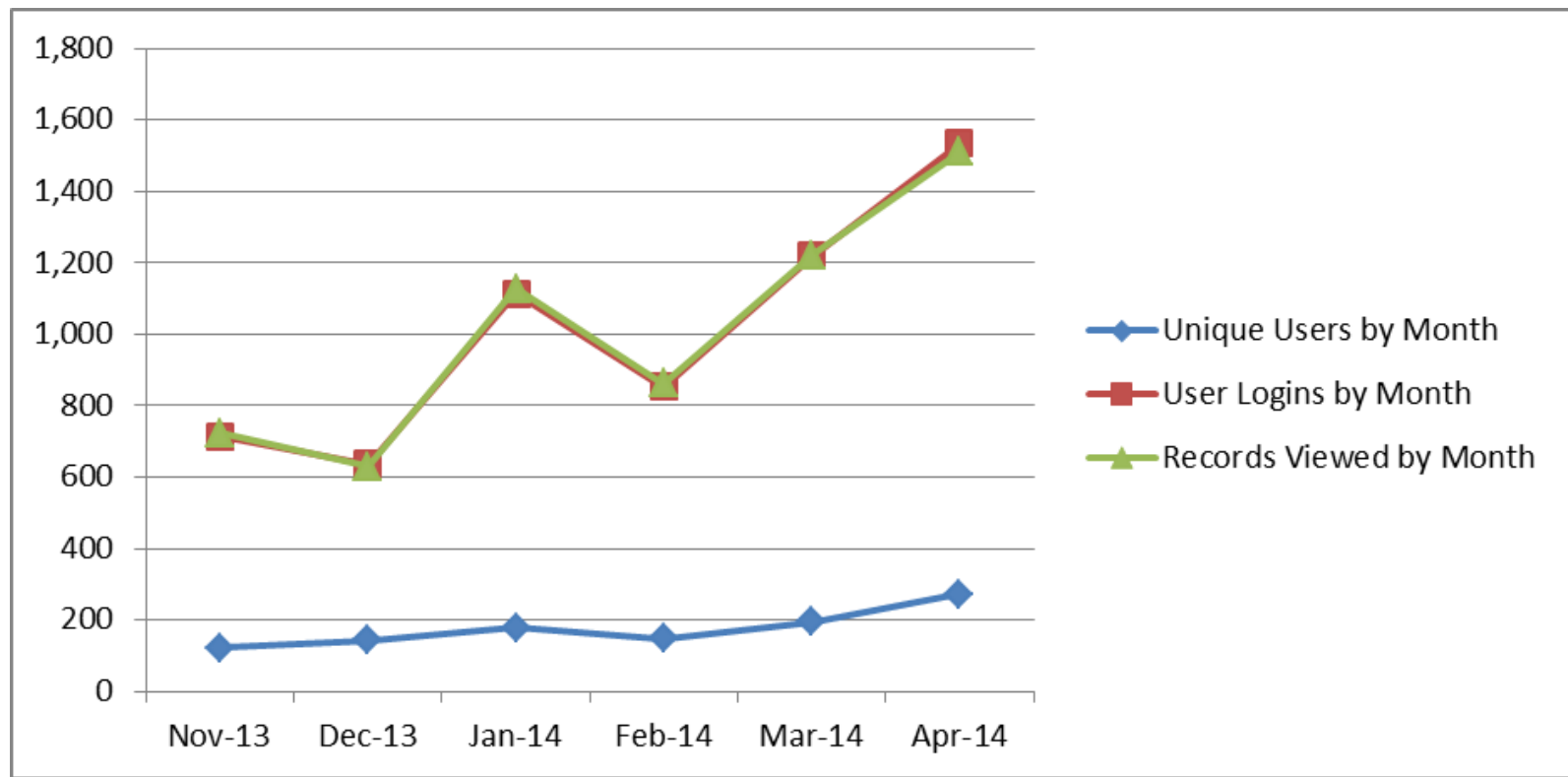


# JLV CUMULATIVE USAGE: MAY 2013 – APRIL 2014

- 697 Unique Users of JLV
- 10,879 JLV Logins
- 10,911 Records viewed

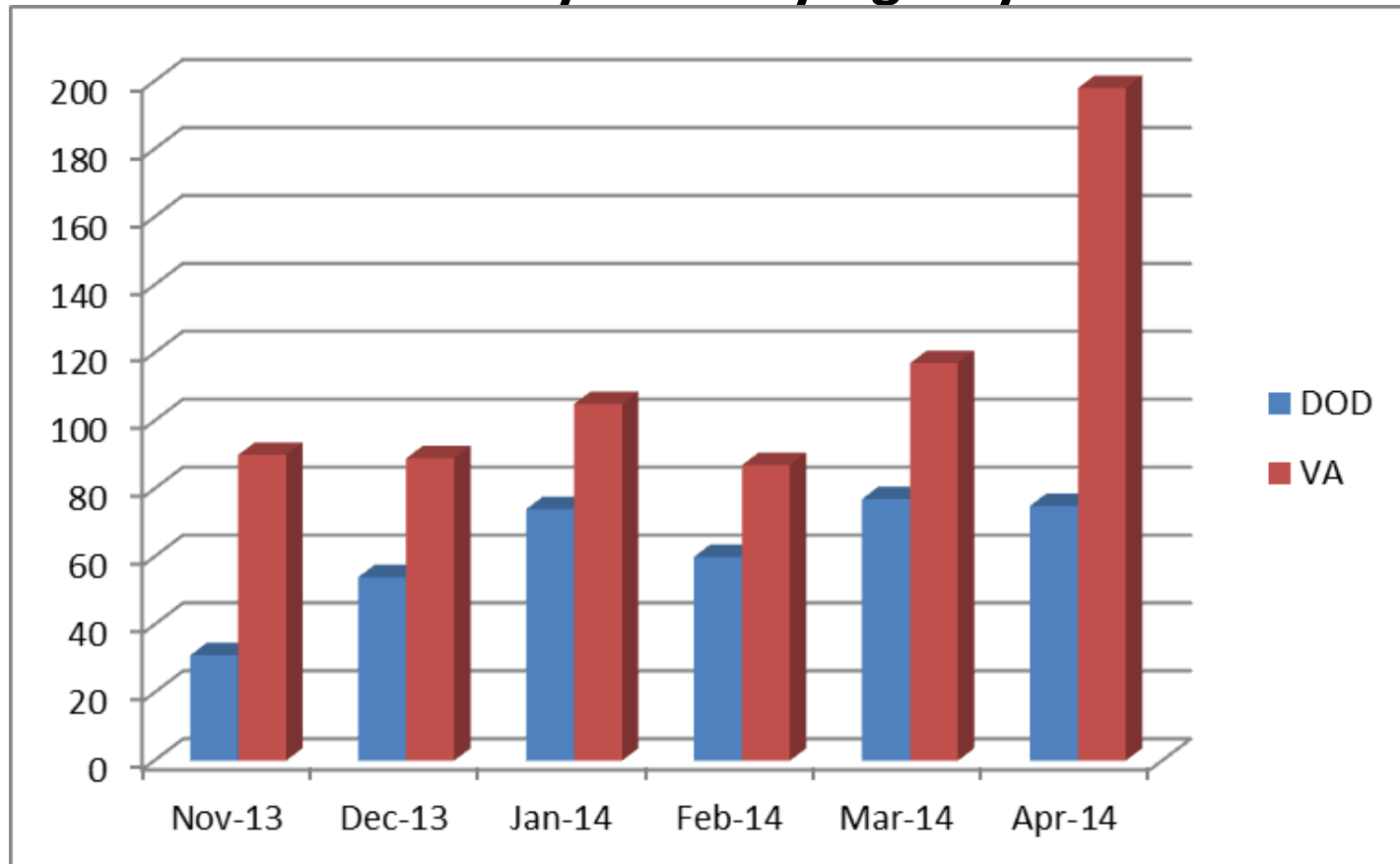
# JLV USAGE: NOVEMBER 2013 – APRIL 2014

## JLV Usage: Month-by-Month Totals



# JLV USAGE: NOVEMBER 2013 – APRIL 2014

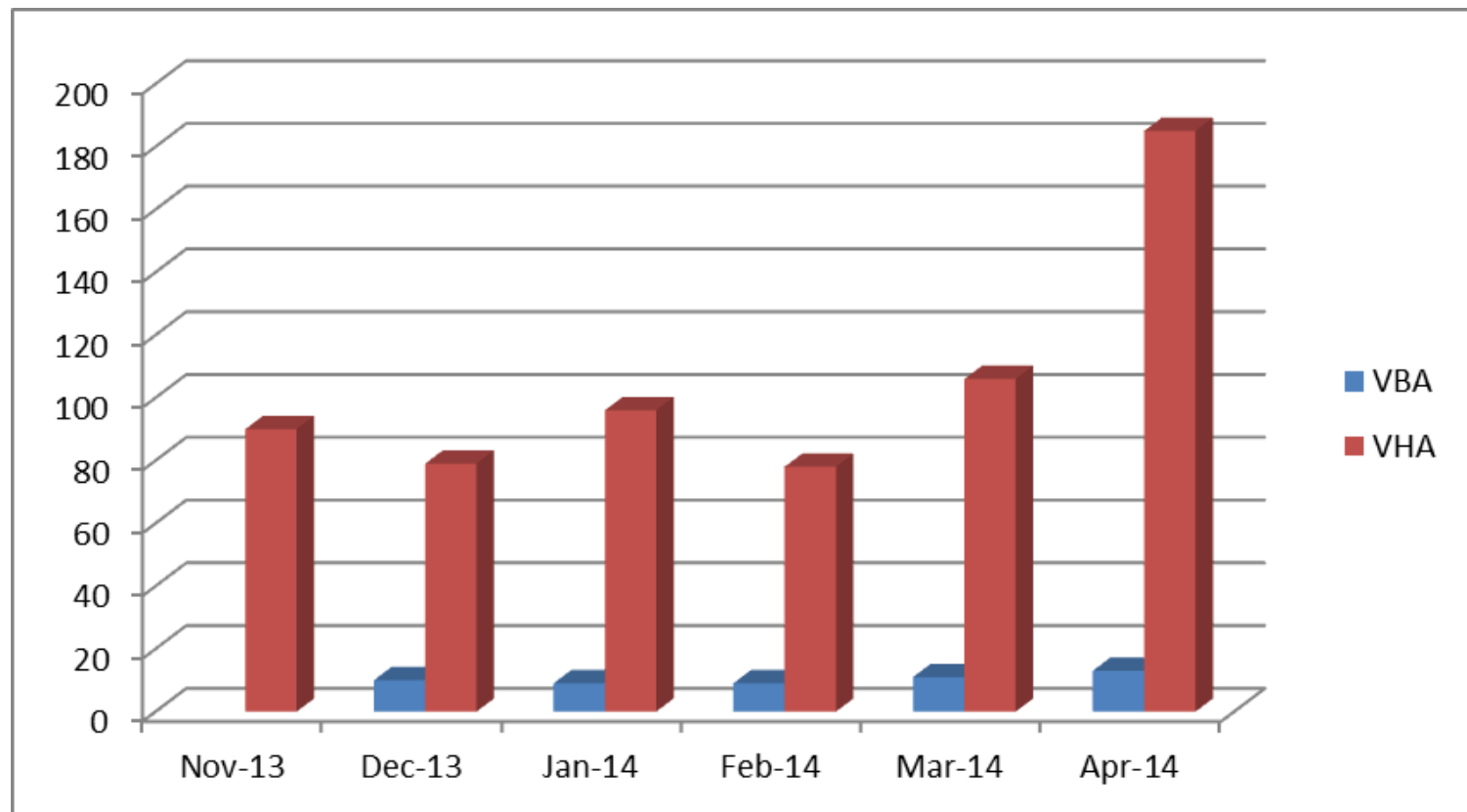
**Monthly Users by Agency**





# JLV USAGE: NOVEMBER 2013 – APRIL 2014

**Monthly Users by VA Administration**



# EXPERIENCED JLV USER REPORT

## DISABILITY CLAIMS WORKFLOWS

- Conducted by Health Informatics' (HI) Human Factors contract team
- Interviewed VHA C&P Clinicians and VBA Claims Specialists
  - Everyone interviewed indicated (unsolicited) that JLV was a “game changer”
  - JLV provides access to data that is not available in other viewers
  - Data is more current than that provided by other data viewers (e.g., VistAWeb and CPRS Remote Data View)
- Findings - JLV Strengths
  - VHA - Increases efficiency and effectiveness three ways
    - Easier to find specific (claims-related) data
    - JLV speed surpasses other systems (VistAWeb, Remote Data View and Veterans Benefits Management System)
    - Access to data not contained in the Service Treatment Record (STR)
  - VBA - Early access to data and access to recent data
    - JLV allows review of necessary evidence *before* the Service Treatment Record (STR) is received from DoD

# DISABILITY CLAIMS WORKFLOWS

## C&P EYE EXAM

- With JLV, specialist is able to access the full eye exam report
- Other viewers (VistAWeb and CPRS Remote Data Views) provide only the cover sheet for eye exams, not the entire file
- Without JLV C&P clinician forced to rely on paper records to obtain the information about each claimant's eye health history
- Significant time savings with JLV versus manual paper file review
- Full report available at:

<https://vaforumfor.us/docs/DOC-8255>



Without JLV a C&P optometrist must find prior eye exams in this voluminous paper record



Joint Legacy Viewer (JLV)

# **NEXT STEPS**

# NATIONAL DEFENSE AUTHORIZATION ACT (NDAA) 2014

- Fiscal Year 2014 NDAA requires Electronic Health Record systems of VA and DoD are interoperable and meet the following criteria:
  - Integrated display of data or a single electronic health record
    - Integrated DoD – VA data and document display
    - Images and scanned documents (e.g., Healthcare Artifact and Image Management Solution viewer)
    - Community Partners (Virtual Lifetime Electronic Record (VLER) data)
  - Support clinical decision-making
  - Comply with national standards and architectural requirements identified by the Interagency Program Office in collaboration with the Office of the National Coordinator
- To address short-term mandates of NDAA 2014, JLV use will be expanded as approved by the Health Executive Committee (HEC)

# JLV EXPANSION PRIORITIZATION

Approved by Health Executive committee 3/28/14

- Capacity for 2,500 total VA users by October 1, 2014
- Prioritize Sites/Users with Clinical need for Interagency efforts
  - Joint Venture sites
  - DoD Contingency sites (VA Patient Receiving Centers)
  - Polytrauma Network sites
  - Federal Recovery Coordination Program sites
  - VistA Evolution Initial Operating Capability and test sites
- Prioritize Sites/Users Administrative need for fitness for duty & claims processing
  - Veterans Benefits Administration



# JLV EXPANSION PLAN

- JLV will be available at all VA Medical Centers October 1, 2014
- On this date the Chief of Staff or his/her designee at all VAMCs will have access to JLV.
- More robust infrastructure to support increased capacity and improved performance of DoD data feeds with release of BHIE DoD Adaptor version 1.0.1.7.
- Improved application function with display of new standards-based domains with release of JLV version 2.2 (JLVv2.2).
- New VA JLV stack deployed and instrumented in the Austin Information Technology Center.
- A JLV training module will be available in the VA Talent Management System (TMS). Additional training offerings will be available during 1st Quarter FY15 via the MyVeHU Campus platform and live interactive webinars

# JLV EXPANSION PLAN

- **Capacity Allocation** Users will be invited to access JLV based on an analysis of current BHIE transaction volume data. We will then target invitations to users by name in this group, on a rolling basis starting in mid-October 2014.
- **Rollout Throttling** The data driven roll out process will be throttled, up or down, based on stability and success metrics to be determined before the process begins in October 2014.
- **Instrumentation key to success** System instrumentation and dashboard capability is key to the success of the data driven rollout, and ability to make real time decisions for deployment throttling. The VA will identify and close instrumentation gaps, and construct on a live dashboard by October 1, 2014.

# JLV PROJECT STATUS

- CURRENT:
  - JLV Development supported by Defense Medical Information Exchange (DMIX) and DoD release management processes
  - JLV Sustainment transitioning to VistA Evolution/UX/eHMP contract
- NEXT STEPS: Integrate with enterprise Health Management Platform - Target date December 2014

# JLV FUTURE VERSIONS AND RELEASES

## **JLV v2.2** September 2014 (major release)

- Display of new data sources
  - Addition of VLER Health data (C32 document - Community Partners Summaries)
- New normalized data domains
  - Lab Results widget enhanced with Anatomic Pathology and Microbiology terminology (standard LOINC codes.)
  - Radiology Exams widget enhanced with terminology (standard LOINC codes.)
  - Orders widget enhanced with orders from DoD with ability to filter and display Plan of Care – Pending Orders (multiple types). (Standard LOINC and RxNORM codes.)
- Revised Break the Glass dialogue for VBA users accessing a record for a patient not yet registered with VA MVI

# JLV 2.2

**Community Health Summaries (3)**

Document	Organization
<a href="#">Summarization of Episode</a>	<input checked="" type="radio"/> MedVirgina
<a href="#">Summarization of Episode</a>	<input checked="" type="radio"/> HealtheConnectionsNY
<a href="#">Continuity of Care Document</a>	<input checked="" type="radio"/> Washington State Multicares

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Page 1 of 1 | Displaying 1 - 3 of 3

# JLV FUTURE VERSIONS AND RELEASES

## **JLV v2.2** September 2014 (major release)

- Multiple bug fixes:
  - VA Context Management
  - DoD Essentris Notes
  - Greek/Russian characters in AHLTA notes
- High-risk security vulnerabilities and other issues identified in IA and SCQC scans have been addressed.
- BHIE DoD Adaptor v 1.0.1.7 release concurrent with JLV v2.2 in September will provide performance and reliability improvements





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# **ADDITIONAL INFORMATION**

# JLV - VA STRATEGIC RELEVANCE

VA Strategic Goal	VA Strategic Objective	VA Strategy	VA Performance Metric
<b>1. Empower Veterans to Improve Their Well-being</b>	<b>Strategic Objective 1.2:</b> Increase Customer Satisfaction through Improvements in Benefits and Services Delivery Policies, Procedures, and Interfaces	VA will provide <b>timely, accurate decisions on Veterans' disability claims</b> and eliminate the claims backlog.	1. Increase compensation <b>claims processing timeliness and quality.</b>
<b>2. Enhance and Develop Trusted Partnerships</b>	<b>Strategic Objective 2.1:</b> Enhance VA's Partnership with DoD	VA and DoD will create an authoritative source of health information for DoD and VA beneficiaries, which will include the <b>delivery of a highly flexible, reliable, secure, maintainable, and sustainable systems.</b>	4. Create clinical and technical standards profile and processes to ensure <b>seamless integration of health data between VA and DoD and private health care providers.</b>
	<b>Strategic Objective 2.2:</b> Enhance VA's Partnerships with Federal, State, Private Sector, Academic Affiliates, Veteran Service Organizations and Non-Profit Organizations	VA will foster stronger collaboration <b>and information exchange across the spectrum of care, benefits and services providers.</b>	1. VA will <b>leverage productive partnerships to augment VA care, services, and benefits</b> to better serve Veteran community members
<b>3. Manage and Improve VA Operations to Deliver Seamless and Integrated Support</b>	<b>Strategic Objective 3.5:</b> Ensure Preparedness to Provide Services and Protect People and Assets Continuously and in Time of Crisis	<b>VA will support DoD, Department of Homeland Security/Federal Emergency Management Agency and other federal Departments and Agencies</b> in support of Presidential Policy Directive 8 – National Preparedness.	1. <b>Increase the Department's preparedness posture</b> to respond to and recover from all-hazards incidents.