

**2026
DEFENSE HEALTH INFORMATION
TECHNOLOGY SYMPOSIUM**

AUGUST 11-13, 2026
HYATT REGENCY NEW ORLEANS
NEW ORLEANS, LA

Longitudinal Natural Language Processing (LNLP) in Action: Driving Smarter, More Efficient Workflows through Artificial Intelligence (AI)

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UNCLASSIFIED



2026 DHITS 1

Agenda

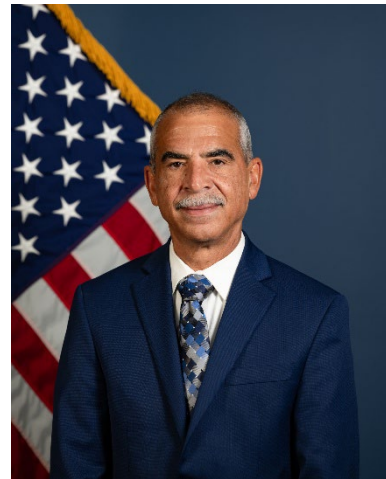
- 1** What's LNLP?
- 2** LNLP in DOW JLV
- 3** MEPCOM's Use of LNLP in DOW JLV
- 4** The Future of LNLP

Speaker Introduction



Crystal Baum
Data Integration
Solutions Director

FEHRM



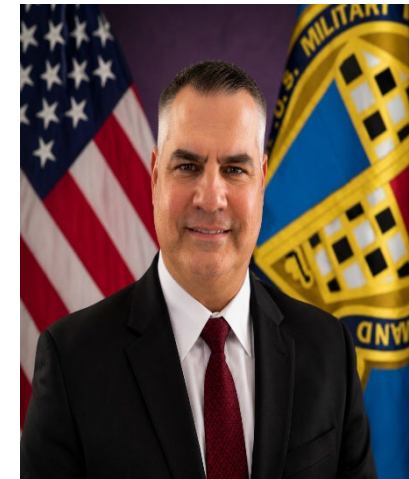
James Metoyer
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Product Manager

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Dr. Gary Fagin
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Jeffrey Engel
Chief, Product Management
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Informatics Officer

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Learning Objectives

- 1** Describe LNLP capabilities as it exists in DOW JLV
- 2** Explain how LNLP capabilities relate to MEPCOM workflow
- 3** Explain roadmap for LNLP within DOW JLV

AI Delivered

LNLP has been in production since January 2023.

DATA ACCESS

Connected to six healthcare data sources:
Federal EHR, AHLTA/Clinical Data Repository (CDR), Essentris, Theater Medical Data Store (TMDS), VA Veterans Health Information Systems and Technology Architecture (VistA), private-sector health information exchange (HIE)

CONCEPT SEARCH

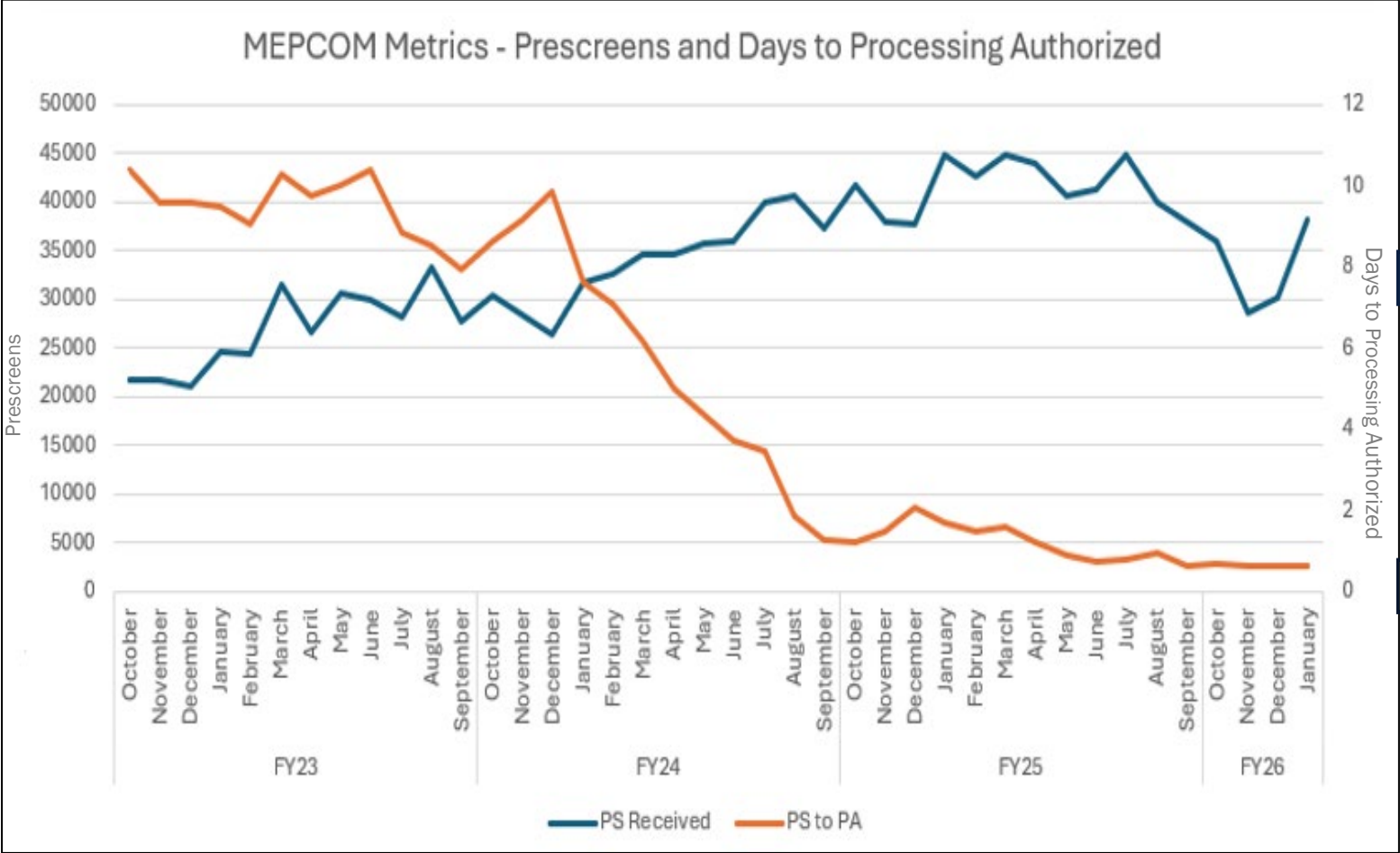
~1.4M clinical concepts,
~3.5M term variations,
16 vocabularies

AI SUMMARIES

Large Language Model (LLM) narrative summaries with linkages to source documents

LNLP Impact at MEPCOM

FY2025 recruitment goals ahead of schedule—a first since the rollout of MHS GENESIS



~2x

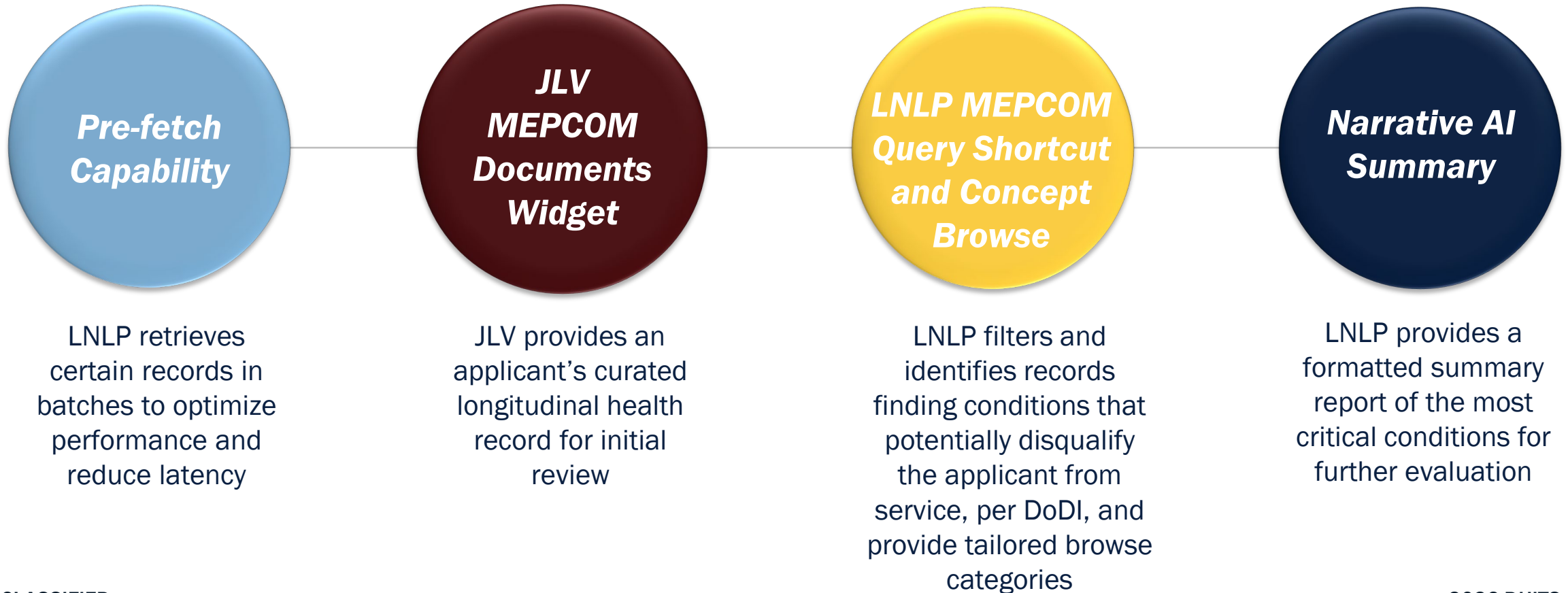
Monthly Prescreens
(From ~20K To ~40K)

90%+

Less Authorization Time
(From > 10 days To < 1 day)

Using LNLP to Streamline MEPCOM Document Review

LNLP features support the MEPCOM mission of evaluating applicants seeking to serve in the Armed Forces, who must review hundreds to over a thousand records per patient.



The Clinician Still Makes the Call

LNLP automates routine, repetitive tasks—the hunting, the loading, the clicking—so clinicians can do clinician things.

LNLP DOES

- ✓ Find the relevant records across 6 sources
- ✓ Fetch data prior to appointment (Pre-Fetch)
- ✓ Flag conditions based on workflow/DoDI
- ✓ Tailored summaries—linked to its source

LNLP DOESN'T

- ✗ Diagnose
- ✗ Decide
- ✗ Replace clinical judgment—ever

Cognitive Overload in Medical Documentation Review

Clinicians frequently need to scour through volumes of information trying to find the needle in a haystack of patient data

Manual and time-consuming

Provider burnout

Delays in Care

Lower Accuracy

Prone to Inefficiencies

Medical history often more complex than what a patient self-reports



AI and LNLP Transform Documentation Review



"Places the needles in the haystack front and center"

"I can find my important records quickly"

"I can get so much more done"

LNLP provides timely, high-precision insights by exposing buried information through AI

Increases speed, throughput, quality, and accuracy

Improves workflows with advanced search capabilities

Positively impacts provider's ability to review joint HIE data from private-sector partners

Accelerates high-volume review history in the scheduled medical visit

Meaningful reviews without relying on patient disclosures

LNLP provides an enterprise production ready solution for streamlining medical documentation review

LNLP Overview

Built on AI and Machine Learning (ML), LNLP offers an efficient method to review medical documentation

Analyze and Extract Concepts

- Gathers structured and unstructured documents
- Applies machine learning models and advanced algorithms
- Performs lexical analysis, data extraction, classification and data enrichment
- Leverages known and controlled ontologies to extract actionable clinical concepts and attributes from real-world narratives
- Provides Optical Character Recognition (OCR) to support variety of document formats (images, PDFs)



Index and Search Concepts in Documents

- Organizes and indexes clinical concepts within documents
- Enables search and deep linking within documents
- Presents associations between clinical concepts
- Provides query shortcuts and smart filters
- Concept browsing and semantic grouping capabilities

Multiple Data Sources

- Private-Sector, Legacy DOW (AHLTA and Essentris), Theater (TMDS), Federal EHR/MHS GENESIS, VA VistA

Provides meaningful insights from structured and unstructured data to support decision making at the point of care.

How LNLP Was Built

Numerous production releases over 36+ months — Each one answering a unique workflow problem.

2023

- LNLP in production
- Advanced search in JLV Community Health Summaries widget
- Query shortcut

2024

- MEPCOM widget in JLV
- Legacy DOW, Theater, Federal EHR and VA data sources
- Prefetch

2025

- Critical diagnosis highlighting
- Custom systems integration - USMEPCOM Integrated Resource System writeback
- Narrative summaries

2026

- Reporting dashboard
- Preventative screening shortcut query

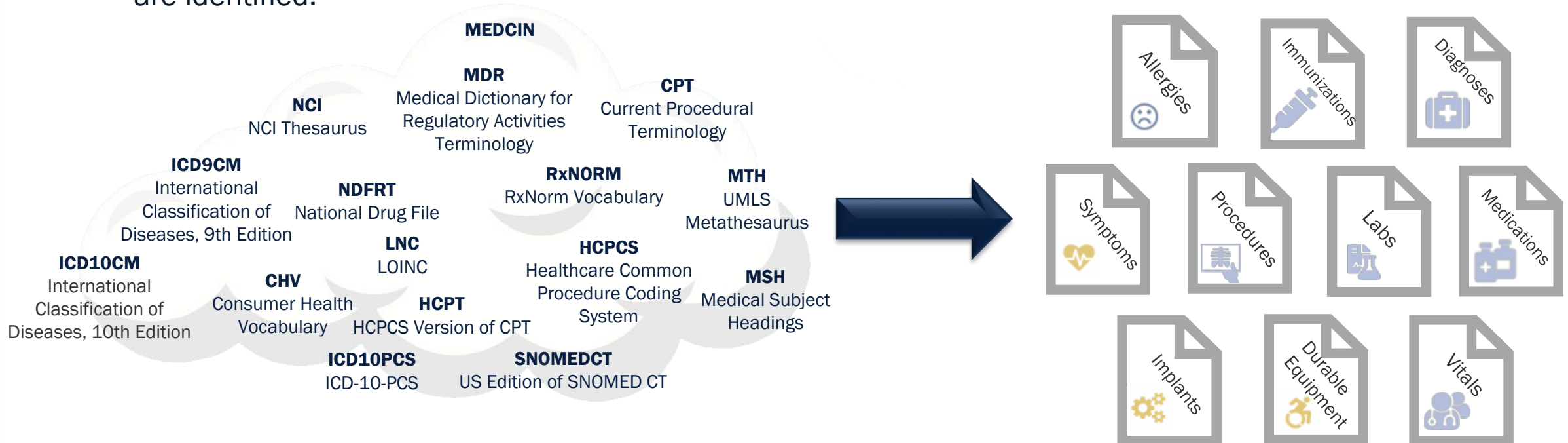
How LNLP Works: Ontologies and Underlying Data

LNLP concepts originate from 16 familiar and controlled vocabularies. When aggregated:

- Approximately 1.4 million distinct clinical concepts can be applied.
- Approximately 3.5 million term variations are identified.

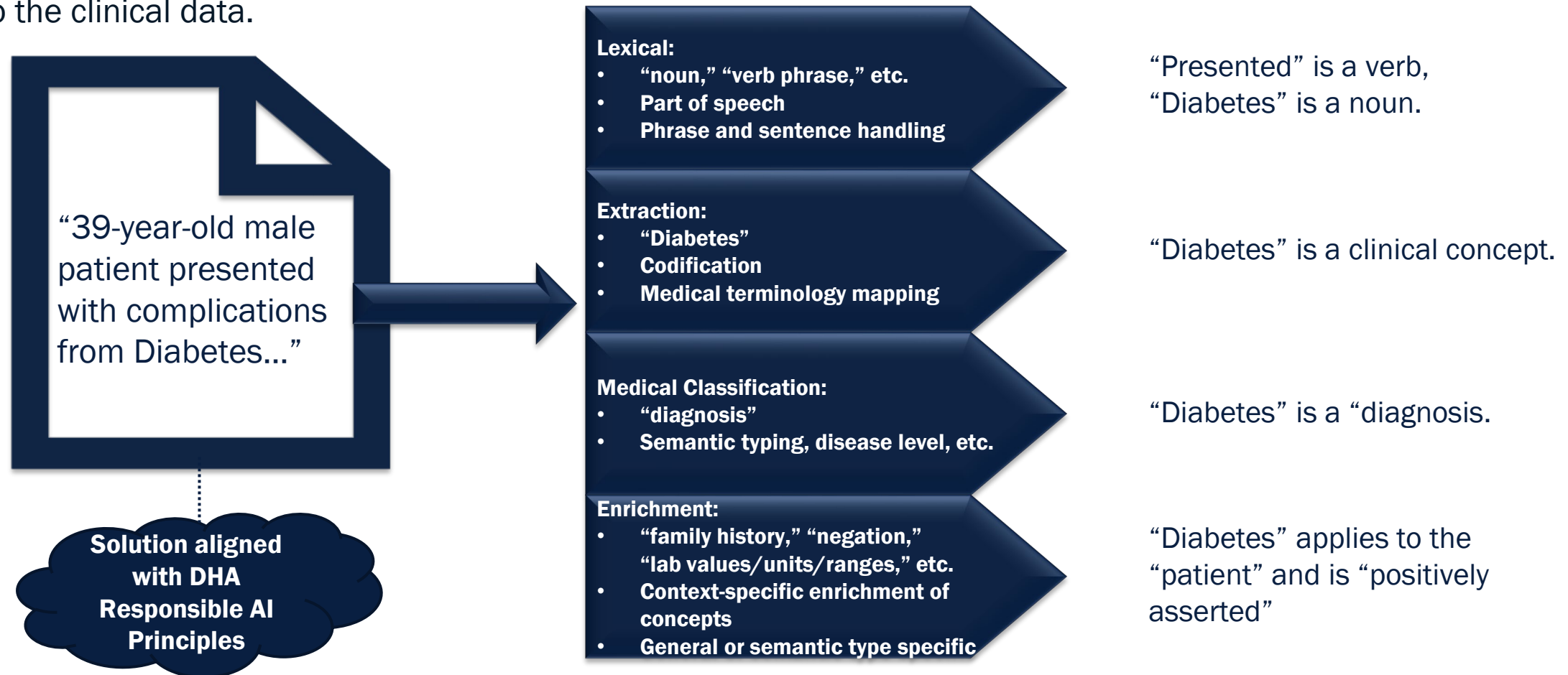
Extracted concept categories:

- Extracted concepts are further classified by semantic type.
- Concepts and subsets can be tailored/expanded for individual use cases.



How LNLP Works: Engine and Processing Stages

LNLP utilizes the Invenio™ NLP Engine to apply NLP to a given document and executes several processing stages. The lexical analysis, data extraction, classification and data enrichment tasks add significant value and usefulness to the clinical data.



Before LNL...

The private-sector health data in JLV's Community Health Systems and Documents (CHS&D) widget only consisted of a list of Continuity of Care Documents (CCDs) with little detail in the titles. Thus, providers would have to open many or all CCDs to find the information they needed.

Community Health Summaries and Documents (333)			
Date	Document Type/Title	Site	
May 25, 2023	Continuity of Care Document	Hawaii Pacific Health	
May 25, 2023	Continuity of Care Document	The Queen's Health Systems	
May 25, 2023	Continuity of Care Document	Kaiser Permanente	
May 25, 2023	Continuity of Care Document	Kaiser Permanente	
May 17, 2023	After Visit Summary	Kaiser Permanente	
May 17, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
May 12, 2023	Message Summary	Kaiser Permanente	
May 10, 2023	After Visit Summary	Kaiser Permanente	
May 10, 2023	Telephone Summary	Kaiser Permanente	
May 06, 2023	After Visit Summary	Kaiser Permanente	
May 06, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
Apr 25, 2023	After Visit Summary	Kaiser Permanente	
Apr 25, 2023	Procedure Only Summary	Kaiser Permanente	
Apr 25, 2023	After Visit Summary	Kaiser Permanente	
Apr 25, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
Apr 18, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
Apr 18, 2023	After Visit Summary	Kaiser Permanente	
Apr 13, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
Apr 13, 2023	After Visit Summary	Kaiser Permanente	
Apr 11, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
Apr 11, 2023	After Visit Summary	Kaiser Permanente	
Mar 31, 2023	After Visit Summary	Kaiser Permanente	
Mar 30, 2023	After Visit Summary	Kaiser Permanente	
Mar 30, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	
Mar 30, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente	

LNLP Access via JLV

JLV added Advanced Search links within two JLV widgets (CHS&D and MEPCOM Documents) to leverage the LNLP capability and make it easier for providers to find relevant information.

MEPCOM Documents (51)

Q Enter text to filter [Remove All Filters](#) [Advanced Search](#)

Date	Description	Provider	Admit Date	Site
	Patient Continuity of Care Document			MB Military.
	Patient Continuity of Care Document			MB Military.
	Micro, Anatomic Path, Rad and Dental Notes			2.16.840.1..
	Dental CCD Summary 391 KB			FEHR
Dec 15, 2023 19:55 Details	Chills (without fever)	Theater Provider		DoD
Nov 30, 2023 20:43 Details	Bipolar disorder, current episode hypomanic	Theater Provider		DoD

Displaying 1-25 of 51 [More](#) [Advanced Search](#)

Community Health Summaries and Documents (333)

Q Enter text to filter [Remove All Filters](#) [Advanced Search](#)

Date	Document Type/Title	Site
May 24, 2023	Continuity of Care Document	Hawaii Pacific Health
May 24, 2023	Continuity of Care Document	The Queen's Health Systems
May 24, 2023	Continuity of Care Document	Kaiser Permanente
May 24, 2023	Continuity of Care Document	Kaiser Permanente
May 17, 2023	After Visit Summary	Kaiser Permanente
May 17, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
May 12, 2023	Message Summary	Kaiser Permanente
May 10, 2023	After Visit Summary	Kaiser Permanente
May 10, 2023	Telephone Summary	Kaiser Permanente
May 06, 2023	After Visit Summary	Kaiser Permanente
May 06, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
Apr 25, 2023	After Visit Summary	Kaiser Permanente
Apr 25, 2023	Procedure Only Summary	Kaiser Permanente
Apr 25, 2023	After Visit Summary	Kaiser Permanente
Apr 25, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
Apr 18, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
Apr 18, 2023	After Visit Summary	Kaiser Permanente
Apr 13, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
Apr 13, 2023	After Visit Summary	Kaiser Permanente
Apr 11, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
Apr 11, 2023	After Visit Summary	Kaiser Permanente
Mar 31, 2023	After Visit Summary	Kaiser Permanente
Mar 30, 2023	After Visit Summary	Kaiser Permanente
Mar 30, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente
Mar 30, 2023	Scheduled Telephone Encounter Summary	Kaiser Permanente

Displaying 1-25 of 333 [Advanced Search](#)

Advanced Search Across All Documents

- Advanced Search Landing Page allows Searching Across All Documents (1)
- Concept Counts can be viewed for Individual Documents (2)
- All Concept Browse provides global Concept Counts (3)

The screenshot displays the JLV LNLNLP Advanced Search interface. The interface is divided into several sections:

- Header:** JLV LNLNLP logo, DoD ID, and MEPCOM Documents.
- Search Bar:** Labeled "Clinical Concept Search" (Annotation 1). It includes "Submit" and "Reset" buttons.
- Filters:** A sidebar on the left with "Note Type" and "Site" dropdowns, both set to "Nothing selected". It also includes a "Query Shortcut" and "Reset Shortcut" section.
- Concept Browse:** A sidebar on the left (Annotation 3) showing a list of concepts and their counts: Allergies (121), Immunizations (65), Disease/Diagnoses (537), Medications (231), Signs/Symptoms (863), Procedures (467), Lab Tests (18), and Vitals (44).
- Document Preview:** A table showing document details. The first document is "US, Pelvis, Transvaginal and Transabdominal" (2024-02-28). The second is "PNG with text" (2023-11-01). The third is "MRI Report / DT&f" (2023-10-03).
- Concept Count:** A table on the right showing concept counts for each document (Annotation 2). For the first document, counts include: Allergies (0), Immunizations (0), Disease/Diagnoses (0), Medications (0), Signs/Symptoms (0), Procedures (1), Lab Tests (0), Vitals (0), Med Devices (0), and Durable Equipment (0). For the second document, counts include: Allergies (0), Immunizations (0), Disease/Diagnoses (0), Medications (0), Signs/Symptoms (4), Procedures (0), Lab Tests (0), Vitals (0), Med Devices (0), and Durable Equipment (0). For the third document, counts include: Allergies (5), Immunizations (1), Disease/Diagnoses (8), Medications (19), Signs/Symptoms (25), Procedures (5), and Lab Tests (0).

At the bottom of the interface, it states "Controlled Unclassified Information (CUI)".

Clinical Concept Searching

Searching via the Advanced Search Landing Page: This search across all documents will return not only “coumadin” matches, but also related clinical concepts (e.g., “Atrial fibrillation”)

JLV LNLP

DoD ID:

MEPCOM Documents

Submit

Reset

Filters

Note Type

Nothing selected

Site

Nothing selected

Query Shortcut

Nothing selected

Concept Browse

Filter concepts

Filter concepts

Disease/Diagnoses (23)

Medications (4)

Signs/Symptoms (3)

coumadin

Enqueued Time

Processing: 0 Complete: 23 Error: 0 Unsupported: 0

Complete 100%

Displaying 1 - 23 of 23

Show All items

MEPCOM Prescreen Report

This summary report is an AI generated list of conditions from LNLP that are considered in assessing an individual's suitability for service in the U.S. Armed Forces. As such, the information should be validated by the provider. The tool will be used with USMEPCOM's current LNLP policy and guidelines, not as a standalone application.

No count information found

Summary is not currently available.

Document Preview	Concept Count
MEDICINE (OPT FIJ) RESIDENT PHYSICIAN NOTE (D) Source Concepts Search Note Type: Progress Note ED _Active Problem AF - Atrial Fibrillation Diabetes Mellitus Type 2	Allergies (12) Immunizations (0) Disease/Diagnoses (3) Medications (10) Signs/Symptoms (4) Procedures (9) Lab Tests (1) Vitals (6) Med Devices (0) Durable Equipment (0)
GENERAL SURGERY OUTPT Source Concepts Search Note Type: No Note Type Provided	Allergies (0) Immunizations (0) Disease/Diagnoses (1) Medications (3) Signs/Symptoms (4) Procedures (10) Lab Tests (0) Vitals (0) Med Devices (0) Durable Equipment (0)
GENERAL SURGERY OUTPT Source Concepts Search Note Type: No Note Type Provided	Allergies (0) Immunizations (0) Disease/Diagnoses (4)

Controlled Unclassified Information (CUI)

Smart Filters and Query Shortcuts

- Smart Filters (1) are available for both Note Type and Site.
- Query Shortcuts (2) allow for workflow specific filtering.
- Concept Browse (3) allow for workflow specific grouping.

MEPCOM-tailored Workflows, derived from USMEPCOM DoDI, are used to build tailored MEPCOM-ALL Query Shortcut and Concept Browse groupings for potentially disqualifying conditions.

The screenshot displays the JLV LNLN MEPCOM Documents interface. On the left sidebar, three sections are highlighted with red boxes and numbered 1, 2, and 3. Section 1, 'Filters', includes 'Note Type' and 'Site' dropdowns. Section 2, 'Query Shortcut', shows a dropdown menu with 'MEPCOM - All' selected. Section 3, 'Concept Browse', shows a list of concepts including CDA (74), CUW (99), Allergies (17), Disease/Diagnoses (1840), Medications (1154), Signs/Symptoms (1458), Procedures (866), Lab Tests (55), and Med Devices (134). The main content area shows a 'MEPCOM Prescreen Report' with a table of document previews. The table has columns for 'Source', 'Concepts', 'Search', and 'Concept Count'. The first row shows a 'CRITICAL DIAGNOSIS' document with a concept count of 1400. The second row shows a 'CRITICAL DIAGNOSIS' document with a concept count of 1400. The interface also includes a top navigation bar with 'MEPCOM Documents' and a bottom status bar with 'Controlled Unclassified Information (CUI)'.

AI Generated Narrative Summaries

A narrative summary (1) is created and provides a clinically relevant patient summary.

For example, a long hospital stay with highly complex orders, medications, procedures, and more can be summarized with links to data in the context of each document.

Filters

Note Type

Nothing selected

Site

Nothing selected

Query Shortcut

Reset Shortcut

Concept Browse

Filter concepts

Critical Diagnoses (15)

Allergies (57)

Immunizations (123)

Disease/Diagnoses (794)

Medications (558)

Signs/Symptoms (2142)

Procedures (334)

Lab Tests (192)

Vitals (308)

Med Devices (5)

Durable Equipment (10)

JLV LNLPLNLP

DoD ID

MEPCOM Documents

Clinical Concept Search

Enqueued Time: 03/28/2025 01:23:30 PM

Processing: 0 Complete: 34 Error: 0 Unsupported: 0

Complete 100%

Displaying 1 - 34 of 34

Submit Reset

MEPCOM Prescreen Report

This summary report is an AI generated list of conditions from LNLPL that are considered in assessing an individual's suitability for enlistment in the service. As such, the information should be validated by the provider.

(F: 22, M: 34, C: 35, CD: 5)

Conditions of Interest for Military Service Enrollment

6.28 LEARNING, PSYCHIATRIC, AND BEHAVIORAL DISORDERS

Condition: Attention Deficit Hyperactivity Disorder (ADHD), diagnosed since

ICD10 Citation: F90.2

DoDI Section(s): 6.28.a

Reason: Ongoing treatment history indicates current management requirements within the last two years per DoDI guidelines for medication adherence or functional impairment assessment.

Date of Service: Present (Document ID: Document reference)

Condition: Major Depressive Disorder (MDD), recurrent episode

ICD10 Citation: F33

DoDI Section(s): 6.28.f.4

Reason: Recurrent episodes suggest chronicity requiring psychological fitness assessment per DoDI standards.

Date of Service: (Document ID: Document reference)

Condition: Adjustment Disorder with Depressed Mood

ICD10 Citation: F43.21

DoDI Section(s): 6.28.g

Reason: Indicates potential underlying vulnerability affecting psychological resilience.

Date of Service: (Document ID: Document reference)

6.23 SYSTEMIC CONDITIONS

Condition: Serotonin Syndrome

ICD10 Citation: T45.x

Reason: Severe systemic reaction requiring acute medical intervention; potential implications for drug tolerance/metabolic stability during military service.

Date of Service: (Document ID: Document reference)

Notes:

ADHD requires evaluation for current medication management status within the last two years.

Document Preview

Concept Count

CRITICAL DIAGNOSIS

Patient Summary

2025-03-28

Note Type: CyncHealth Clinical Document Summary

Author: No Provider Specified

Site:

Payers

Payer Name Policy Type Policy Number Effective Date Expiration Date

Source

Concepts

Search

Allergies (12)

Immunizations (29)

Disease/Diagnoses (293)

Medications (48)

Signs/Symptoms (457)

Procedures (60)

Lab Tests (5)

Vitals (31)

Med Devices (1)

Durable Equipment (0)

CRITICAL DIAGNOSIS

Office Visit Summary

2022-09-08

Note Type: Office Visit

Author: No Provider Specified

Site:

Reason for Visit

Source

Concepts

Search

Allergies (4)

Immunizations (29)

Disease/Diagnoses (52)

Medications (33)

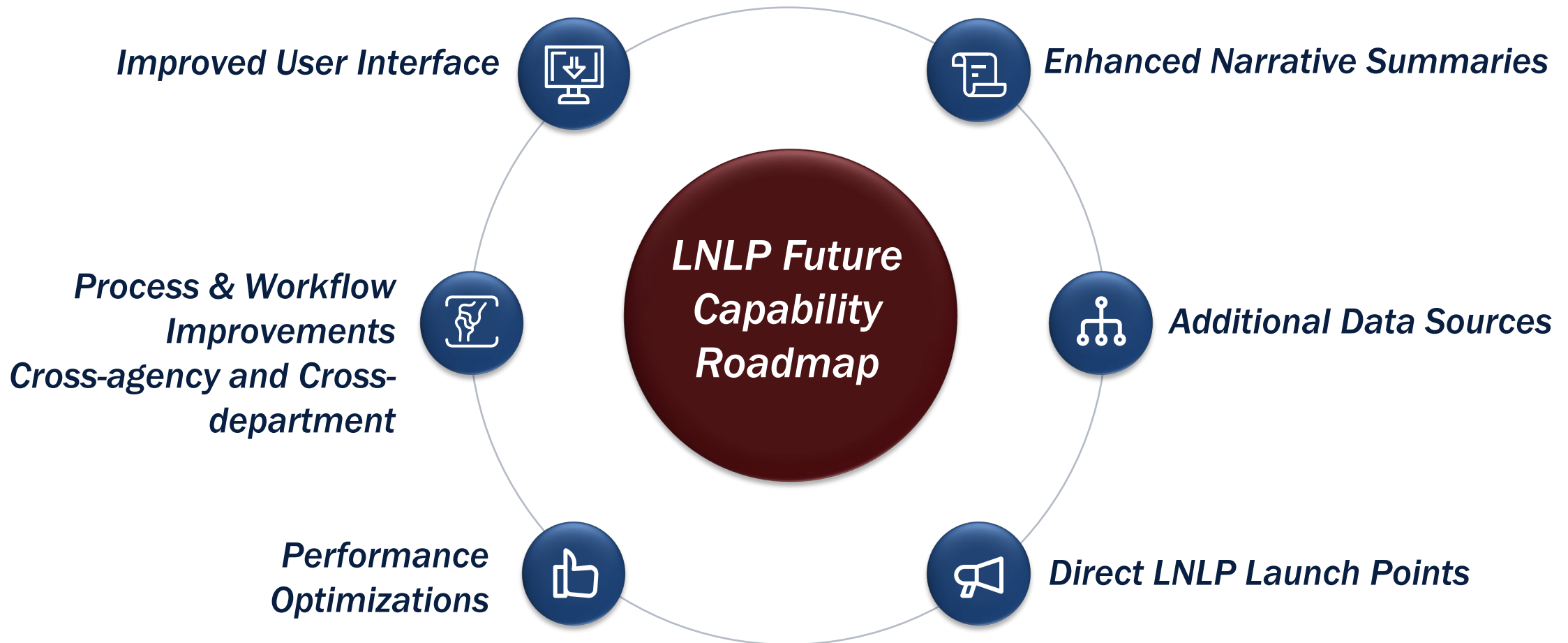
Signs/Symptoms (155)

Procedures (26)

Lab Tests (14)

Vitals (24)

Controlled Unclassified Information (CUI)



CUSTOMER DRIVEN

ADAPTABLE AND FLEXIBLE

Potential Use Cases: Healthcare Data Drill-Down

Query Shortcuts apply preconfigured business rules to narrow down results by concept, time, and document section.

Preventative Screenings

- Mammograms - within 3 years
- A1C measurements - within 2 years
- PAP/Cervical procedures - within 5 years
- Colon procedures - within 10 years
- General concepts - Smoking Status, Blood Pressure
- Chronic conditions - Diabetes, Osteoporosis

The screenshot displays the JLV LNLNLP interface. On the left, a sidebar contains a 'Filters' section with dropdowns for 'Note Type' (Nothing selected), 'Site' (Nothing selected), and 'Query Shortcut' (Reset Shortcut). Below these are links for 'Reset Shortcut', 'MEPCOM - All', 'Preventative Screenings' (highlighted with a red circle and a red arrow pointing to it), 'Signs/Symptoms (6173)', 'Procedures (1808)', 'Lab Tests (422)', 'Vitals (525)', 'Med Devices (43)', and 'Durable Equipment (7)'. The main panel on the right shows a 'Clinical Concept Search' header with a 'DoD ID' field. Below this is a pagination bar showing 'Enqueued Time: 06/12/2026 11:01:35 AM' and a page number '1'. A message states: 'This summary report is an AI generated list of cond... Document counts not available in this context Summary is not currently available.' The main content area displays two document entries: 'HCA - Continuity of Care Document' and 'Continuity of Care Document'. The first entry shows 'Note Type: HCA - Continuity of Care Document' and 'Author: No Provider Specified'. The second entry shows 'Note Type: Continuity of Care Document' and 'Author: No Provider Specified'.

Potential Use Cases: Report Builder AI Summary

AI Narrative Summary generated with JLV Report Builder

Tailored MEB NARSUM

JLV

Location: Some Location
 Provider: Provider

Main Tab
Radiology Tab X

+

Report Builder - [Redacted]

New Report

Saved Reports (2)

Date	Records (4)
Jun 22, 2020	Radiology Reports Record with Details and Attachment Date: Jun 22, 2020 Details Exam Number: 806768681 Exam: XR Chest 2 Views Standardized Radiology Exam: CPT Description Status: final Results: Image: Location: DoD: 0125C-AMC Madigan, Tacoma, WA Site: ► FEHR
Jun 22, 2020	Radiology Reports Record with Details and Attachment Date: May 06, 2020 Details Exam Number: 763149225 Exam: Cat Scan Standardized Radiology Exam: CT Unspecified body region Location: DoD: 0125C-AMC Madigan, Tacoma, WA Site: ► FEHR
Apr 10, 2019	Radiology Reports Record with Details and Attachment Date: Apr 10, 2019 Details Exam Number: 380280685 Exam: Imaging Assessment Standardized Radiology Exam CPT Description Location: DoD: 0125C-AMC Madigan, Tacoma, WA Site: ► FEHR
Apr 10, 2019	Radiology Reports Record with Details and Attachment Date: Oct 19, 2017 Details Exam Number: 38130922 Exam: Macula OD Standardized Radiology Exam Results: Image: Location: DoD: 0125C-AMC Madigan, Tacoma, WA Site: ► FEHR

Build Report

X

4 of 50

➔ Build AI Summary

4 of 10

Clear All

☐ Clear All records after Build

Medical Record

This summary report is an AI generated list of conditions that are considered in assessing an individual's suitability for enlistment in the service.

The patient was evaluated for cervical radiolopathy without any recent trauma. An MRI of the cervical spine performed on 22 June 2020 demonstrated moderate degenerative disc disease with decreased T2 signal throughout the cervical discs, consistent with desiccation, and reduced disc height at C4-C5, C5-C6, and C6-C7. Multilevel broad-based disc-osteophyte complexes were present, mildly flattening the ventral aspect of the cord at C3-C4, C5-C6, and C6-C7. At C4-C5 there was a right paracentral disc protrusion measuring approximately 6 mm anteroposteriorly, producing severe central canal stenosis (4.5 mm AP at midline, 2.2 mm at the right side) and marked mass effect on the ventral cord. A focal T2-hyperintense signal change within the cord at this level, extending 14 mm, suggested cord ischemia with myelomalacia. Bilateral facet arthropathy was noted, more advanced on the right, with severe bony narrowing of the right neuroforamen and moderate to severe narrowing of the left. No acute fracture, vertebral body height loss, or abnormal atlantodental interval was identified. The overall impression was multilevel cervical spondylotic disease with significant canal stenosis, cord signal abnormally likely reflecting myelomalacia, and severe foraminal narrowing, particularly on the right. Prompt neurosurgical consultation was recommended.

Date Generated: 20 August 2025

NARSUM TEMPLATE

- 1) **DIAGNOSES: (1) XXXX (2)XXXX**
- 2) **MEDICAL HISTORY, TREATMENT & EVALUATION**
- 3) **IMPACT ON PERFORMANCE**
- 4) **CLINICAL PROGNOSIS (12 Mos)**
- 5) **CLINICAL PROGNOSIS (36 Mos)**
- 6) **REQUIREMENT TO MONITOR or TREAT BEYOND 12 Mos**

Contact

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Thank You!



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Back up



UNCLASSIFIED

Alignment with DHA Responsible AI Principles



Responsible

Used ethically and legally

- DOW Responsible AI policies and directives
- Chief Digital and Artificial Intelligence Office governance guidelines
- User accountability, education and training
- Human-in-the-Loop (HITL) reviews
- AI disclaimers and messaging



Equitable

Fair and unbiased

- Structured prompts for fair AI responses
- Evidence-anchored responses grounded in verified sources
- Neutral language prompts to eliminate bias
- Few-shot exemplars
- Restricted free-text chaining



Traceable

Transparent and auditable

- Inline citations for source attribution
- End-to-end auditing of AI requests / responses
- Versioning of AI models, values & system instructions
- Full input-to-output traceability
- System documentation



Reliable

Safe and accurate

- Data Drift & Concept Drift monitoring with statistical reviews
- Proactive alerts and model recalibration over time
- Controlled data sources
- Secure Hosting with DOW infrastructure protections
- DevSecOps pipeline for consistent deployments



Governable

Subject to oversight and control

- Extensive testing with representative datasets
- Government Developmental Test and Evaluation testing
- Continuous Application Performance Monitoring (APM)
- Cyber Authority to Operate (ATO)
- Privacy Impact Assessments (PIA)
- Common Vulnerabilities and Exposures scanning and patching