

# Enterprise Clinical Knowledge Management



## The Challenge: The Inability to Deliver Structured Knowledge at Market Speed

Organizations managing high-volume clinical content often face a "**bottleneck**" where practice guidelines remain **trapped** in static documents, making them **expensive** to maintain and **slow** to deploy. For a major national clinical content vendor, the challenge was to translate complex clinical practice guidelines into **scalable, interoperable** tools that could be integrated across diverse Electronic Health Record (EHR) environments without sacrificing **clinical relevance** or **trust**.

## The Solution: An Enterprise-Ready Knowledge Management Foundation

Elimu served as the prime contractor to develop a comprehensive Clinical Decision Support (CDS) system that operationalized clinical rules at a national scale. Elimu implemented a **repeatable framework** (the Clinical Decision Support Consortium layered knowledge approach) to ensure all content remained maintainable and vendor-neutral.

### Key Implementation Pillars:

- **Scalable Maintenance:** Created a framework that allows for the **rapid** scaling of clinical guidelines while reducing the **long-term** product development and maintenance costs.
- **AI & NLP Orchestration:** Designed NLP and AI components to mine unstructured data, which worked in **tandem** with rules engines to **support** complex clinical pathways.
- **Advanced Asset Management:** Established a centralized system for **terminology** and **value sets** management, reference data automation, and content dependency linkages to support continuous maintenance.
- **Standards-Based Interoperability:** Developed CDS rules for chronic conditions (including diabetes, hypertension, CAD, and asthma) using core healthcare standards such as FHIR, SNOMED CT, RxNorm, LOINC, and ICD-10.

### Tangible Results (2019–2024)

Since its successful launch, this knowledge management framework has delivered significant operational and clinical impact:

- **40% Reduction** in clinical decision-making time.
- **85% Guideline Adherence** achieved through standardized care delivery.

- National Scale: Currently serving **100+ healthcare organizations** and **1,000+ clinicians**.
- Portfolio Growth: Expanded from initial launch to over **200 guidelines** actively managed and improved.

## Why Elimu?

We provide Clinical Knowledge Management as a Service, bridging the gap between normalized data and governed, maintainable clinical knowledge. We don't just build rules; we "teach you to fish" by applying decades of manual content maintenance experience to AI-ready technologies.

### **Our methodology ensures your organization can:**

1. Develop more **high-quality** guidelines more quickly.
2. Provide **workflow-aligned, clinically relevant** recommendations.
3. Reduce the cost of transformation to structured FHIR formats.

**Eliminate "CDS sprawl" and prepare your data for the AI era with a structured assessment.**

[Schedule a free consultation with a senior informaticist.](#)