KATE

AI-powered clinical decision support platform for real-time emergency department (ED) triage, designed to help nurses increase accuracy and catch high-risk patients earlier.

https://www.mednition.com/

Overview

KATE, developed by Mednition, is a machine learning-powered, cloud-based Clinical Decision Support (CDS) solution designed specifically for Emergency Department (ED) nurses at the point of triage. The system provides real-time clinical risk guidance to improve triage accuracy, reduce clinical risk, and boost ED throughput.

Product Overview and Key Benefits

KATE operates as a real-time safety net and expert advisor, integrating seamlessly into existing ED workflows and Electronic Health Record (EHR) systems with zero changes required for the nurse. It is architected to read, extract, and understand the entirety of the EHR, including unstructured clinical free-text notes, to recognize potential under- or over-triage acuity assignments. By providing instant insights, KATE empowers nurses to make more confident assessment decisions, ensuring patients are placed on the right care pathway faster. Key benefits include dramatically improved outcomes for high-risk conditions like sepsis and stroke, reduced Length of Stay (LOS), improved patient safety, and enhanced nurse critical thinking and retention.

Main Features and Capabilities

KATE is built on the **Mednition Clinical Data Engine (CDE)**, a proprietary platform informed by billions of de-identified patient clinical data points, which provides deep clinical insight and scalable real-time predictive analytics. The platform includes several specialized solutions:

KATE Triage: Provides real-time, individualized clinical intelligence to empower nurses in acuity and risk identification, supporting the assignment of Emergency Severity Index (ESI) triage levels.
KATE Sepsis: Offers real-time, accurate, and early sepsis risk detection at ED triage, which has received **FDA Breakthrough Device Designation**.

Clinical Natural Language Processing (C-NLP): The engine processes both structured and unstructured EHR data, including free-text notes, to uncover hidden clinical risk.

Clinical Data Engine (CDE): Provides real-time dashboards for measuring clinical performance and enables research-grade ad hoc retrospective analysis on all EHR data.

Target Users and Use Cases

KATE's primary target users are **Emergency Department Nurses** and **Hospital Leaders** focused on operational and clinical quality improvement. Primary use cases include:

Improving Emergency Department (ED) Triage Accuracy and reducing unwarranted clinical variation.
Early Identification and prioritization of High-Risk Patients (e.g., Sepsis, Stroke, Maternal Risk).
Boosting ED Throughput, patient flow, and reducing Length of Stay (LOS).
Reducing clinical risk and promoting health equity by mitigating gender or other biases in triage decisions.
Supporting nurse training, critical thinking, and reducing administrative burden to combat burnout.

Key Features

- Real-time AI-powered Clinical Decision Support

- Seamless EHR Integration (Zero Workflow Change)

- Early Sepsis Detection (KATE Sepsis Module)

- Acuity & Risk Identification (KATE Triage Module)

- Clinical Natural Language Processing (C-NLP)

- Clinical Data Engine (CDE) for Real-time Analytics

- Support for Emergency Severity Index (ESI) Triage

- Health Equity Gap Reduction

Pricing

Model: enterprise

Fee-based, not publicly disclosed. Pricing is customized for hospital systems and is balanced by the positive financial impact (ROI) from improved outcomes, reduced Length of Stay (LOS), and nurse retention.

Target Company Size: enterprise

Integrations

EHR Systems (General)

Compliance & Certifications

FDA Breakthrough Device Designation (KATE Sepsis)