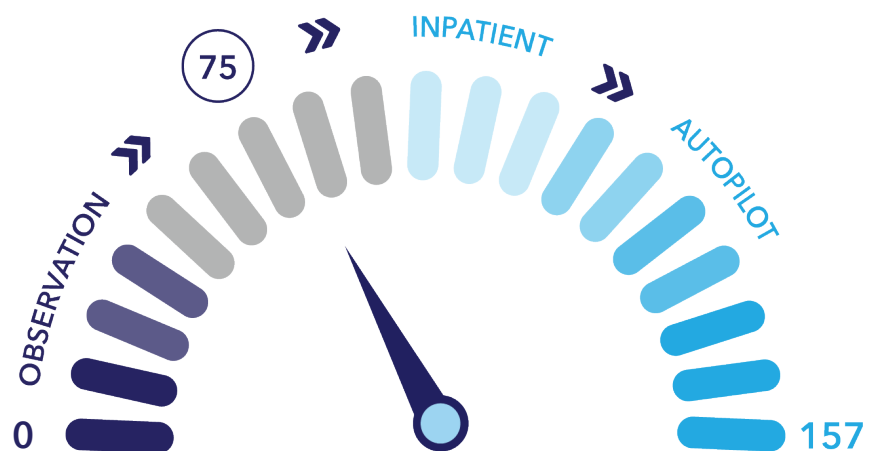# XSOLIS

CORTEX Product Overview

XSOLIS

Cortex: A Platform Designed for Precision

XSOLIS' artificial intelligence product, CORTEX, provides a technology framework to analyze patient data in real time and help take a prescriptive approach to key operational elements such as Inpatient probability of a patient, the applicable DRG code, and trending patient acuity.
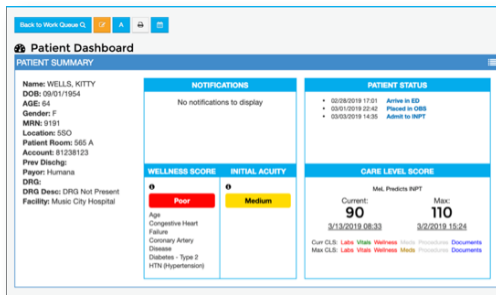
The Care Level Score

Our proprietary artificial intelligence model, called the Care Level Score (CLS), allows clinical staff to focus on cases that need their attention in real-time. The Care Level Score is built upon a framework of evidence-based medicine and incorporates AI trained on millions of cases from facilities across the nation.

CORTEX extracts data from a hospital's EMR, pulling all key information for a patient including labs, vitals, and medical records. CORTEX then applies Artificial Intelligence and Machine Learning to make a full triage of the data in real time. CORTEX assigns each patient a Care Level Score from 1 to 157 indicating the probability of how likely a patient should be statused as inpatient, where the higher the score, the greater the probability. The Care Level Score updates in real time as the available data changes, allowing staff to track a patient's current acuity and trended acuity.

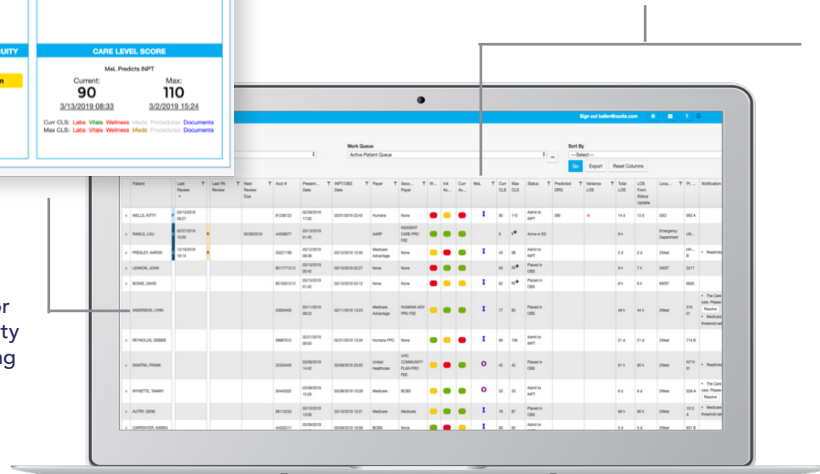OBSERVATION · INPATIENT · AUTOPILOT · 75 · 0 · 157

The CLS incorporates the patient's clinical data, which is automatically extracted from the EMR in real-time.

- Labs
- Vitals
- Medical History
- Medications
- Procedures
- Physician notes
- Clinical documents

With the CLS as the foundation, the Status Conflict Queue allows you to prioritize your day to more efficiently and effectively perform reviews.

Cortex segments and prioritizes cases for review based on their predicted status, potential status conflicts, predicted DRG, Length of Stay and other factors. Bolstered by a rules engine that addresses regulatory, compliance and payer requirements, Cortex ensures case reviews pass seamlessly from payers to providers.

XSOLIS builds the total clinical picture for each case in real time. Our patient dashboard consolidates key information for staff review – patient data, acuity and wellness are displayed along with information driving each prediction.

XSOLIS uses the CORTEX framework to provide customized interfaces aimed at specific user types. Currently the three applications are: CORTEX.UR for hospital utilization review departments; CORTEX. AUTH for payer utilization review departments; CORTEX.PA to facilitate physician advisor reviews and P2P support for hospitals.

XSOLIS Products

CORTEX.UR offers hospital staff a technology-based tool for case reviews, workflow management and payer communication. Predictive analytics help support appropriate status determinations up front and drive efficient UR activities

Benefits to Hospitals
- Identify appropriate inpatient conversion opportunities
- Find denial risks
- Manage length of stay
- Seamlessly communicate with payers, partnered or not

CORTEX.AUTH acts as a shared framework for case review between payer and provider - backed by analytics focused on the true clinical merit of the case. CORTEX gives payer staff a real-time view of each patient case escalated to them, expediting the review process while reducing redundancy. Payers and providers can agree to an analytics threshold for automatic inpatient status, a process called Precision UM.

Benefits to Payers
- Reduce abrasion with their providers
- Improve member experience
- Use Precision UM to reduce administrative overhead
- Allow real-time access to member data

CORTEX. PA was designed to help Physician Advisors review more cases and to allow PAs to manage remote locations.   As cases are escalated, they populate within a work queue where the PA can see which cases need to be reviewed, track which have already been reviewed, and make updates on the case. CORTEX.PA interfaces seamlessly with CORTEX.UR for holistic coverage within the provider.

Benefits for Physician Advisors
- Single repository for all escalated cases and case documentation
- PAs see data in real-time
- Remotely manage multiple sites within internal models
- AI helps expedite case reviews
- With Precision UM Fewer cases are escalated to PAs