

Patient Safety Monitor

Use data and analytics to help detect, analyze, and improve

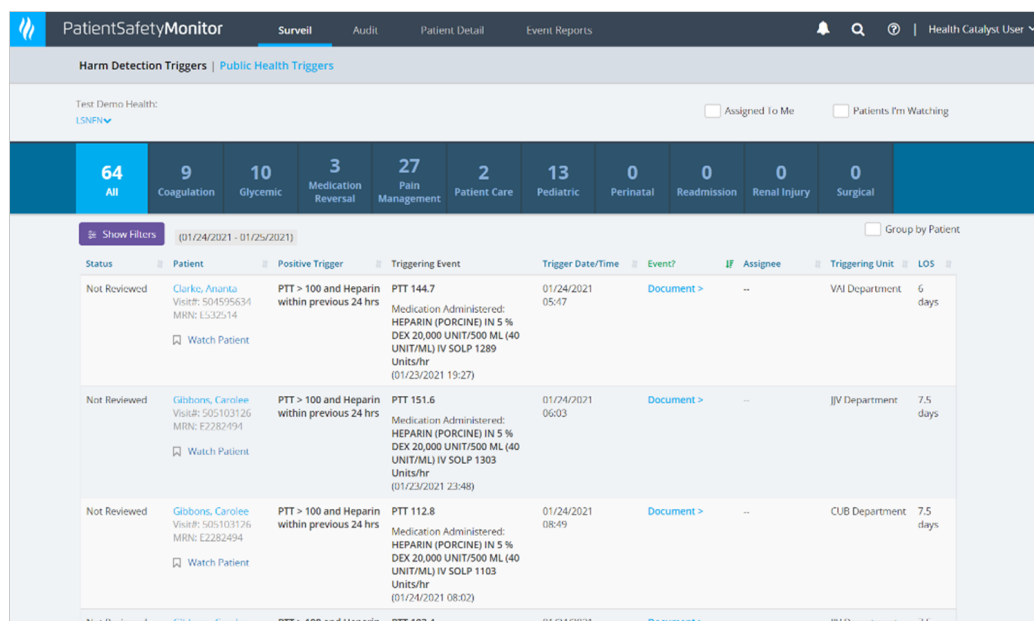
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The Patient Safety Monitor™ Application monitors incoming patient data from multiple sources in near real-time. It can detect the magnitude and nature of harm or risk and identify variation in care delivery through automated surveillance (all-cause harm and public health triggers), voluntary incident reporting, and auditing. Additionally, Patient Safety Monitor provides predictive models and clinical and financial dashboard visualizations to help users predict and analyze harm and its causes and impact. The application can also help users manage improvement projects to prevent and mitigate harm and reduce costs through focused improvement modules (CAUTI, CLABSI, etc.) and customizable audit tools.



The Patient Safety Monitor application dashboard shows categorized and ranked harm detection and public health triggers for a selected facility.

The problem

A mass of challenges hinders most healthcare systems from achieving zero preventable patient harm, including process complexity, insufficient data, and provider burnout. What's needed: technology that brings together disparate data, fits clinician and analyst workflows, and empowers organizations to focus relentlessly to identify, understand, and prevent all-cause harm and public health events to support their journey to become a High Reliability Organization (HRO).

Intended Users

- Chief informatics officer
- Chief medical officer
- Chief nursing officer
- Chief patient safety officer
- Chief quality officer
- Hospital epidemiologists
- Infection preventionists
- Patient safety clinical investigator
- Risk management
- Service-line leadership
- Unit-level leadership

Potential data sources

- EMR - Clinical
- Billing
- Clinical Specialty

Key measures

- Adverse event rates
- Cost
- Counts and rates
- GIS mapping
- Length of stay (LOS)
- Mortality
- Readmission
- Utilization

Our approach

Unlike traditional manual, siloed approaches to patient safety, which focus narrowly on specific types of adverse events and miss most harm and risk, Patient Safety Monitor enables comprehensive identification and analysis of all-cause harm and public health threats—and supports focused improvement work to address them. Triggers for emerging threats (such as COVID-19) support enhanced biosurveillance monitoring and help organizations collaborate with public health agencies.

Benefits and features

- **Build a safety net.** Two units of automated-surveillance triggers—harm detection and public health—flag utilization, symptom, and clinical test and care patterns, enabling early detection and timely intervention.
- **Improve patient outcomes and lower costs.** Safety analytics are accessible within the workflow at the point of care, enabling proactive harm prevention, effective care, and timely public health response.
- **Free clinicians and infection preventionists to focus on patient care.** Automated data extraction and reporting lifts the burden of manual data searching, aggregation, and reporting.
- **Gain an understanding of performance at-a-glance.** Easily filter data to drill down to different levels for further insight on improvement opportunities and the financial impact of safety issues.

Use cases

- **A board of trustees** has adopted a “safety as a system” initiative to focus on the whole-patient measure of safety as the metric for the organizations three-year operating plan. The operating plan goal is to achieve a rate of zero all-cause harm events within three years. Patient Safety Monitor was chosen to provide continuous monitoring, measurement, management, and prevention of all-cause harm events to meet the Board's three-year goal.
- **An epidemiologist** is tracking cases of COVID-19 across her healthcare system. First, she wants to understand the spread of the virus in her healthcare system. Then, she wants to understand the spread in her community. Working with system physicians and Health Catalyst clinical experts, her team configures COVID-19 triggers and uses Patient Safety Monitor to boost detection, identify overall trends in system prevalence, and collaborate with public health officials on a community response—all while having the ability to track vaccine administrations geographically and the adverse outcomes.
- **A quality officer** using Patient Safety Monitor observes a clinically confirmed rising rate of nursing-sensitive harm events (falls, pressure injuries). He discusses the trend with nursing leaders and unit medical directors, and the group hypothesizes that recent reductions to nurse staffing in some care units may be related. Root-cause analysis supports this hypothesis.

Success stories

For examples of how customers have used Health Catalyst products and services to improve outcomes, see our [success stories at healthcatalyst.com](https://www.healthcatalyst.com/success-stories)

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- Reach out to your sales representative
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