

PRODUCT

SAVES is an automated pediatric deterioration risk assessment and clinical decision support system.

INDICATION

Inpatient Pediatric Patient
Vitals Monitoring

VALUE PROPOSITIONS

Increase visibility of vital signs reporting and trends.

Highlight deterioration risk for clinical intervention.

Promote clinical best practices in seamless ways that do not disrupt other workflows.

CONTACT INFORMATION

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Situational Awareness Electronic Vital Scout (SAVES)

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PROBLEM/OPPORTUNITY

Despite published and well-known pediatric early warning scoring system like the Pediatric Early Warning System (PEWS), unrecognized clinical deterioration is still prevalent in inpatient pediatric care. Cleveland Clinic defines unrecognized clinical deterioration events as any patient requiring three (3) or more fluid boluses, intubation, and/or inotropes (drugs that tell your heart muscles to beat or contract with more power or less power) within one (1) hour of transfer from and acute care floor to the Pediatric Intensive Care Unit (PICU).

SOLUTION/PRODUCT

SAVES is a platform developed and deployed at Cleveland Clinic leveraging elements of the electronic medical record (EMR) and a robust transaction management system.

SAVES monitors and scores patients to determine who may be at risk or is deteriorating based upon age-grouped vital sign parameters. The color-coded risk scores can be seen by nursing staff monitoring children in the inpatient setting like the PICU. Nurses are offered specific interventions based on the risk score.

Those interventions include:

- Green – Continue monitoring per orders
- Blue – Focused nursing assessment
- Yellow – Mitigation not required: Nurse, Physician, Licensed Practitioner discussion
- Red – Immediate Physician, Licensed Practitioner assessment

SAVES has been implemented on five (5) inpatient pediatric care floors on Cleveland Clinic's Main Campus. In the five months before implementing SAVES, three (3) unrecognized clinical deteriorations were observed. In the seven (7) months following the SAVES implementation that number was reduced to zero (0) unrecognized clinical deteriorations.

