



SPACELABS
HEALTHCARE

CLINICAL INFORMATICS
Rothman® Index Predictive Analytics for Pediatrics

Empowering
better results:
Driving improved
outcomes together

Combining clinical expertise with data science for advanced pediatric care



As hospitals implement early warning scores (EWS) to help estimate the risk of patient deterioration, pediatric clinicians may find that their EWS systems don't address the unique characteristics of their patients.

The Rothman Index does.

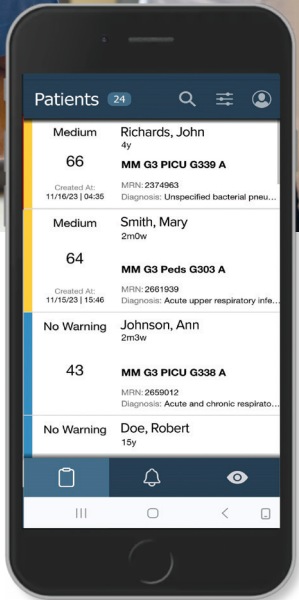
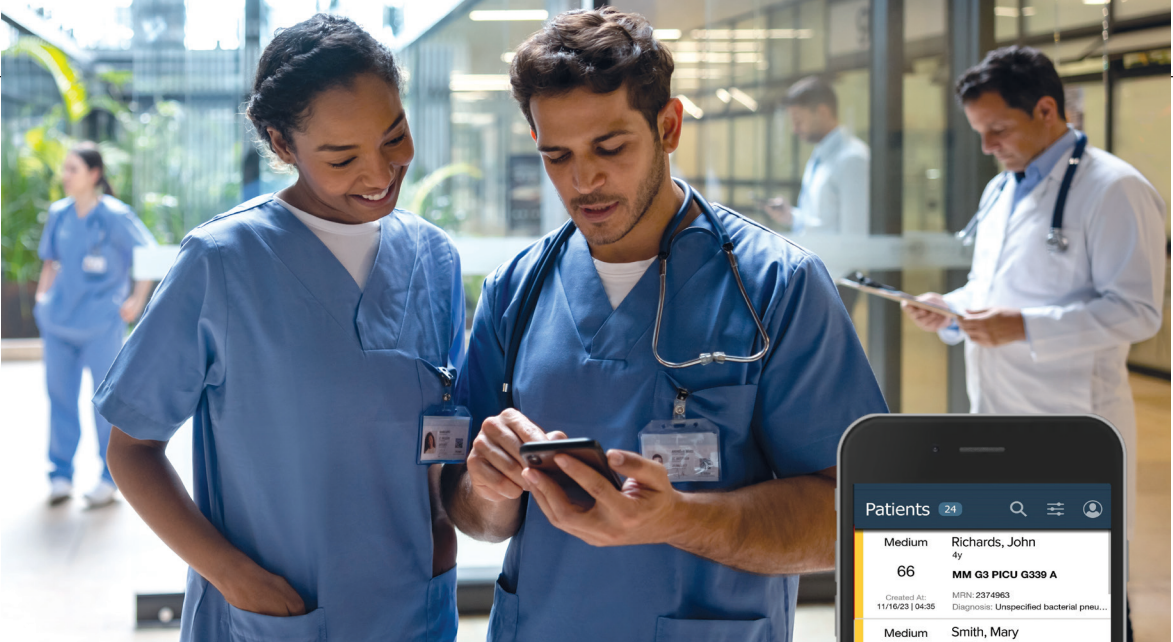
The Rothman Index for Pediatrics

The Spacelabs Rothman Index (RI) gives pediatric clinicians the ability to combine their clinical expertise with data science to drive augmented insights into overall patient condition before it becomes critical.*

As an FDA-cleared predictive analytics solution for use across all conditions and ages, RI automatically extracts and analyzes constantly changing clinical measurements from the EMR, including comprehensive nursing assessments. Its algorithms detect subtle changes over time that often go unnoticed, calculating an aggregated score of patient's overall physiological condition.

RI scores will follow patients through the hospital even as they are moved and transferred, ensuring a coherent picture of the patient's condition throughout the entire episode of care and over multiple admissions.

*Not intended for use in the NICU



Tailored parameters for children

From specialized algorithms to unique software configurations, RI for pediatrics builds on the widely validated Rothman Index technology with specific adaptations tailored for pediatrics including:

- Age-based adjustments for key input variables to accurately reflect risk:
 - Heart rate
 - Respiratory rate
 - Blood pressure (diastolic and systolic)
 - Creatinine levels
- Customized warnings for pediatrics include:
 - Age specific rules designed to account for differences in compensation
 - Inclusion of specific clinical characteristics that serve as leading indicators of deterioration (e.g., grunting, head bobbing, nasal flaring)

Improve continuity of care challenges

Delayed access to patient information and inefficient communication among healthcare teams can lead to frustration, compromised care, and elevated costs.

RI facilitates communication between different departments by providing a common language via trended scores and real-time updates on a patient's condition:

- Provides automatic real-time updates on patient acuity and condition changes—with no additional documentation required by clinical staff
- Fosters transparency and reduces risk of critical information being missed during care transitions by providing a clear summary of a patient's condition and recent trends
- Supports level-of-care decisions to help drive financial savings by reducing avoidable and/or non-beneficial ICU utilization



Drill down into individual patient scores for a graphical view of changes in clinical values over time.



“We validated the Rothman Index for pediatrics with our team. We compared it to PEWS... I think we did this one right. We’ve demonstrated that it’s better. We’ve sun-setted our prior methodology.”

– Chief Academic Officer,
Pediatric Critical Care Specialist



Scan the barcode to read how a pediatric hospital in Ohio replaced their early warning system with the Rothman Index for pediatrics and attributes it to decreases in unplanned transfers to the ICU.

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