

# Unlock Real-Time Predictive Care in Epic with Bidirectional FHIR Integration

## Meeting the Challenge of Pediatric Sepsis

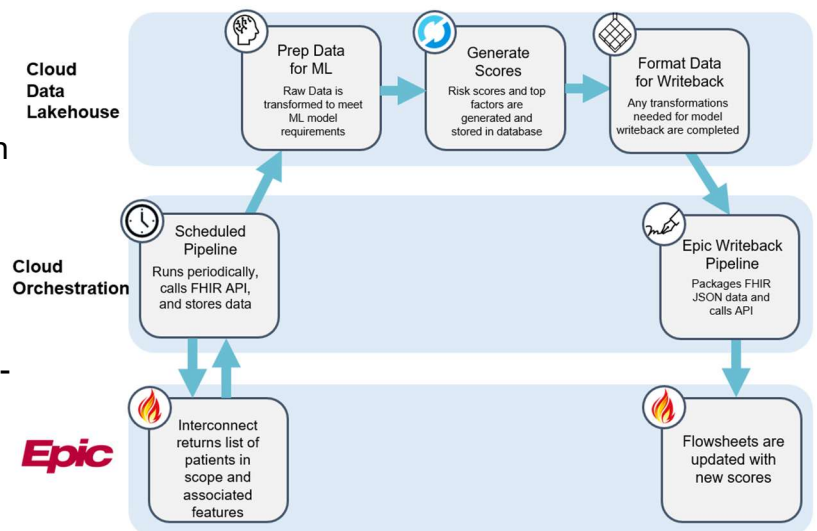
Pediatric sepsis presents uniquely complex clinical challenges that UK Healthcare (UKHC) was unable to address using its adult-focused sepsis model. Existing alerts were slow, often inaccurate, and mistrusted by clinicians—leading to delayed interventions and avoidable harm.

Recognizing the urgent need for a pediatric-specific solution, UKHC partnered with Prominence Advisors to design a model that could detect sepsis earlier, reduce false positives, and integrate seamlessly into clinical workflows without contributing to alert fatigue.

## Delivering Real-Time, Clinician-Trusted Intelligence

Prominence and UKHC built a bidirectional FHIR integration that pulls real-time clinical data from Epic, applies advanced ML scoring in the cloud (via Databricks on Azure), and writes predictions directly back to Epic flowsheets.

This fully standards-based approach bypasses the limitations of Epic's Nebula environment—enabling data transformations, inclusion of non-Epic data, and scalable model deployment, all while preserving a familiar and intuitive user experience for clinicians.



## Outcomes and Impact for Health Systems

Healthcare organizations can now use any modern analytics platform to transform Epic data in near real-time—and deliver results directly back into clinical workflows. Healthcare organizations can now use any modern analytics platform to transform Epic data in near real-time—and deliver results directly back into clinical workflows.



### Timely Alerts

*Improved clinical trust and adoption through accurate, timely alerts*



### Reduced Fatigue

*Reduced alert fatigue with fewer false positives and more targeted notifications*



### Ready to Scale

*Scalable infrastructure now positioned to support predictive models for additional use cases like deterioration and readmissions*



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Contact our team today to get started **doing more with your data!**



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