

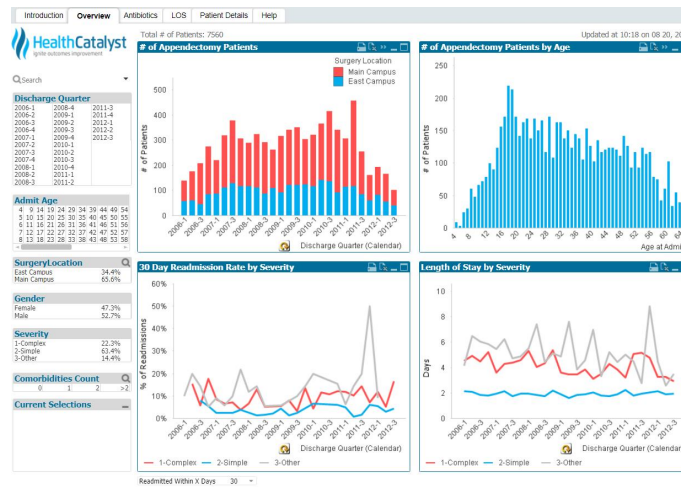
Type
Analytics Accelerator

Status
Custom Services

Revised
2019-November-22

Technical Description

The **Pediatric Appendectomy Analytics Accelerator** provides insight into the delivery of care for children with appendicitis—supporting organizations in their efforts to reduce morbidity, length of stay (LOS), readmission, and cost-of-care.



The Pediatric Appendectomy accelerator delivers insight for continuous improvement of care and outcomes.

Background

Organizations typically choose to focus on pediatric appendicitis for these reasons:

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- Significant variation in care. Research has shown that the mean LOS for appendectomy procedures can vary significantly; this variation is tied to variation in care factors that impact morbidity,

Application Overview

Drive a focus on best-practice care—and achieve better outcomes for patients

The Pediatric Appendectomy Analytics Accelerator supports a coordinated and evidence-based approach to assessment, care, and follow-up, helping drive and sustain improvement in clinical and financial outcomes. Typical implementations focus on appropriateness and timing of initial assessment and diagnosis, timing of treatment (antibiotic therapy, surgery), and postoperative care practices.

Benefits and Features

- **Access an at-a-glance, near real-time view of quality of care and its impact.** The application dashboard visualizes outcome and process metrics in an easy-to-consume, one-page summary.
- **Focus your team on what matters most.** Outcome metrics typically include morbidity, LOS, complications (e.g., surgical site infections (SSIs)), readmissions, and cost-per-case. Typical process metrics include adherence to assessment standards (e.g., imaging, severity documentation); timing of assessment, diagnosis, and surgery; appropriateness and timing of antibiotic therapy; and adherence to standard order set for postoperative care. The result? Your team understands the priorities and can help solve problems that stand in the way of improvement.
- **Start faster with meaningful, scalable clinical definitions.** The cohorts, definitions (e.g., simple or complex severity), and process measures that come with the accelerator are clinically relevant, standard, and meaningful across domains, ready for customization or adoption in your organization.
- **Do more than monitor: understand.** Detailed analytics of each bundle provide dynamic data exploration, real-time filtering, and drill-down to provider- and patient-level detail. The application also provides export or print capability for patient lists, metric performance, etc. so you can share and follow up.
- **Compare care within a cohort.** A Compare tab lets you review patient and care variables—demographics, variation in care, performance of different surgeons, etc.—to determine what's working and not working to improve outcomes. This feature also allows you to gauge the ROI of improvement work in particular areas: what could you achieve if every provider standardized to match your best performance?

Intended Users

- Clinical directors
- Clinical educators
- Service-line leadership and teams
- ED and inpatient care units and improvement teams
- Surgical services leaders and teams

Use Cases

notes an upward trend in LOS for appendicitis patients. What are the drivers? Working with **clinical leaders in the ED and inpatient units**, he uses the application to identify improvement opportunities in both their early assessment (imaging, time to diagnosis)—as well as in postoperative care (appropriate antibiotic use, advancing ambulation practices, discharge efficiency). After implementing education and communication with providers, the team uses the accelerator to track variation in care. After 9 months, the team is able to associate reduced practice variation with clear improvement in outcomes: lower LOS and readmissions.

Data Sources

This product may leverage one or more of the following sources:

- EMR - Clinical
- Billing
- Claims
- Other:
Patient satisfaction

Key Measures

- Morbidity
- LOS
- SSIs and other complications
- Readmission
- Cost-per-case

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