

# Pediatric Asthma

Insight to improve care for pediatric patients with asthma

Type: Analytics Accelerator

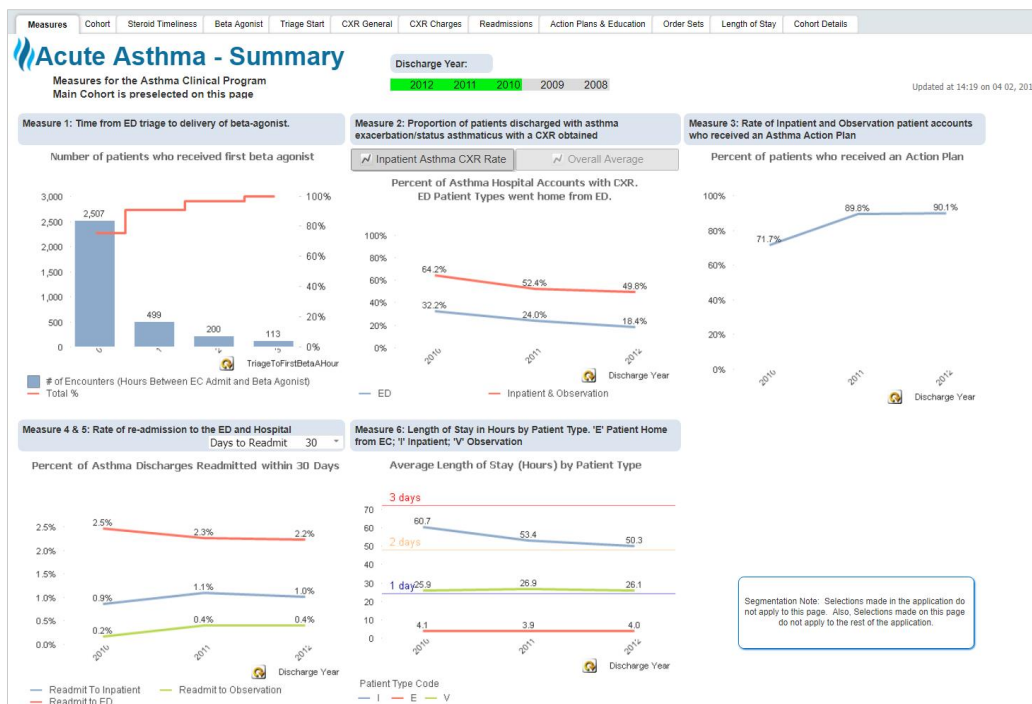
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The **Pediatric Asthma** analytics accelerator provides data and visualizations to improve the care of pediatric patients with asthma—supporting teams in their efforts to prevent exacerbations, optimize utilization of services, decrease LOS and readmissions, increase quality of life, and lower costs.

**Note:** Like all analytics accelerators, this application is implemented in a custom way. Organizations identify their own areas of focus—and the appearance and functionality of the accelerator may differ from what is presented here.



## Intended users

- Chief Medical Officer
- Chief Nursing Officer
- Clinical directors
- Clinical educators
- Service-line leadership and teams
- Care management teams

## Potential data sources

- EMR - Clinical
- Claims
- Billing
- Patient satisfaction

## Key measures

- Exacerbations
- ED and inpatient utilization
- Readmission rate
- LOS
- Cost-per-case

The **Pediatric Asthma** analytic accelerator drives a focus on best-practice care—and improved clinical and financial outcomes.

## The problem

- **High prevalence and burden.** Asthma is the most common chronic condition in children worldwide, burdening patients, families, and healthcare systems.
- **Significant variation in diagnosis and care,** despite well established guidelines. Unwarranted practice variation typically signals an improvement opportunity.
- **Opportunity to affect care across the continuum.** Well documented initiatives have been shown to reduce ED and hospital visits, lower costs, and improve quality of life.

## Success stories

For examples of how customers have used Health Catalyst products and services to improve outcomes, visit <https://www.healthcatalyst.com/knowledge-center/success-stories/>

## Our approach

The Pediatric Asthma analytics accelerator supports a disciplined, data-driven approach to the evaluation and management of pediatric patients with asthma, helping to drive and sustain improvement in clinical and financial outcomes. Typical implementations focus on assessment, exacerbation management, and optimization of medical therapy—areas where getting it right is especially meaningful to improve quality and cost.

## Benefits and features

- **Gain an at-a-glance view of quality of care and its impact.** The application visualizes outcome and process metrics in an easy-to-consume, one-page summary. This allows you to see trends (such as readmissions) as they develop—and take timely action to address issues.
- **Understand the resources required to provide care for every patient with asthma.** Depending on the availability of data, the application can bring in data from both ambulatory and hospital settings, in and out of network, to help surface the cost of care, utilization of services, and frequency of exacerbations.
- **Start faster with meaningful, scalable clinical definitions.** The cohorts, definitions, and process measures that come with the accelerator are clinically relevant, standard, and meaningful across domains, ready for customization or adoption in your organization. Organizations are able to look at patients' demographic information, medication history, and clinical features—not just administrative codes (e.g., ICD, CPT codes)—to precisely identify cohorts of patients with asthma.
- **Identify improvement opportunities and focus on what matters most.** Outcome metrics typically include ED and hospital utilization rate, LOS, readmission, and cost-per-case. Typical process metrics include documentation of asthma severity and risk, timing of acute care measures (beta-agonists, steroids), appropriateness of chest X-ray and antibiotic usage, use of standard pediatric order set, and provision of an asthma action plan and asthma education. The result? Your team understands the priorities and can help solve problems that stand in the way of improvement .

## Use cases

Using the Pediatric Asthma application, a health system's Asthma Team notes a significant uptick in their pediatric asthma inpatient admissions. What are the drivers of this trend? Which aspect of standardized care is proving most problematic for front-line staff? The team uses the application to identify improvement opportunities in their hospital care (e.g., ED delivery time of beta agonists, steroids) as well as their ambulatory care (primary care follow-up with updated Asthma Action plan). After implementing education and communication with providers, the team uses the accelerator to track reduction in practice variation—and improvement in outcomes.

## Contact us

For more information on how Health Catalyst products and services can help your organization, please contact us:

- Reach out to your sales representative
- Call us at (855) 309-6800
- Email us at [info@healthcatalyst.com](mailto:info@healthcatalyst.com)

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