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ASTHMA TRACKER

HEALTHCARE IT

Online patient portal that facilitates consistent and accurate self-assessment of asthma symptoms. Incorporates a decision support and feedback system to improve asthma management.

TECHNOLOGY TYPE

Software
Asthma
Patient Reported Outcomes
Pediatrics

STAGE OF DEVELOPMENT

- Bench prototype tested in 325 children with asthma.

- Further development required for commercial product.

LEARN MORE

Reference Number: U-5050

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TECHNOLOGY SUMMARY

Asthma is the most common chronic pediatric illness, with over 7 million children in the United States suffering from the disease and annual economic costs of over \$20 billion. Asthma control tests address four weeks of asthma symptoms at one time and are not administered regularly. Failure to effectively monitor and manage asthma symptoms leads to increased asthma attacks, which typically results in emergency room visits, and poor quality of life.

Asthma Tracker improves asthma management by enabling self-monitoring of symptoms over smaller time periods. The online patient portal uses a questionnaire to assess asthma symptoms each week. Once the survey has been completed, a report is generated and sent to the primary care provider. Poor results trigger contact from a healthcare provider to discuss symptoms and schedule appointments as necessary.

FEATURES AND BENEFITS

- Improves adherence to asthma therapy.
- Provides care providers with objective data that can be used to adjust therapy.
- Engages patient in on-going asthma self-assessment
- Facilitates early identification of need for intervention.
- Improves asthma control in ambulatory settings.
- Reduces risk of asthma exacerbation.

RECENT PUBLICATIONS

Nkoy, F.L., Stone, B.L., Fassel, B.A., Uchida, D.A., Koopmeiners, K., Halber, S., Kim, E.H., Wilcox, A., Ying, J., Greene, T.H., Mosen, D.M., Schatz M.N., Maloney, C.G. (2013). Longitudinal validation of a tool for asthma self-monitoring. *Pediatrics*. 132(6): e1554-61. doi: [10.1542/peds.2013-1389](https://doi.org/10.1542/peds.2013-1389).

INVENTOR PROFILE

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DATE UPDATED: 7/22/2019