

Journal of Asthma >
Volume 55, 2018 - Issue 7

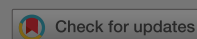
632 Views | 12 CrossRef citations to date | 2 Altmetric

Articles

National estimates of 30-day readmissions among children hospitalized for asthma in the United States

Sreenivas P Veeranki , MBBS, DrPH, Michael U. Ohabughiro, BS, Jacob Moran, BS, Hemalkumar B. Mehta, PhD, Bill T Ameredes, MS, PhD, Yong-Fang Kuo, PhD & ... show all

Pages 695-704 | Received 12 Apr 2017, Accepted 06 Aug 2017, Published online: 13 Oct 2017

 Cite this article  <https://doi.org/10.1080/02770903.2017.1365888>

Sample our
Medicine, Dentistry, Nursing
& Allied Health Journals
>> **Sign in here** to start your access
to the latest two volumes for 14 days

[Full Article](#) [Figures & data](#) [References](#) [Citations](#) [Metrics](#)[Reprints & Permissions](#)[Read this article](#)

ABSTRACT

Objective: Previous single-center studies have reported that up to 40% of children hospitalized for asthma will be readmitted. The study objectives are to investigate the prevalence and timing of 30-day readmissions in children hospitalized with asthma, and to identify factors associated with 30-day readmission. **Methods:** Data ($n = 12,842$) for children hospitalized with asthma in the United States from 2007 to 2013 were analyzed. Nationwide estimates of 30-day readmission rates were calculated. Time to readmission, associated predictors, and Cox's proportional hazards model were used to identify predictors. Results: Of 12,842

About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our [Privacy Policy](#).

[Accept All](#)[Essential Only](#)[Settings](#)

asthma-related index hospitalizations, 2.5% were readmitted within 30-days post-discharge. Time to event models identified significantly higher risk of readmission among asthmatic children aged 12–18 years, those who resided in micropolitan counties, those with >4-days LOS during index hospitalization, those who were hospitalized in an urban hospital, who had unfavorable discharge (hazard ratio 2.53, 95% confidence interval 1.33–4.79), and those who were diagnosed with a pediatric complex chronic condition, respectively, than children in respective referent categories. Conclusion: A multi-dimensional approach including effective asthma discharge action plans and follow-up processes, home-based asthma education, and neighborhood/community-level efforts to address disparities should be integrated into the routine clinical care of asthma children.

KEYWORDS: Asthma readmission or repeat hospitalization Nationwide Readmission Database

Declaration of interests

The authors declare they have no conflicts of interest related to this study.

Acknowledgements

The authors would like to thank Dr. Randy Goldblum in the Division of Clinical and Experimental Immunology and Infectious Diseases within the Department of Pediatrics at UTMB for his thoughtful comments on the paper.

Funding

No external



Guarantee

Dr. Veer...ding the data and analysis.

About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click “Settings”. For further information about the data we collect from you, please see our [Privacy Policy](#).

Accept All

Essential Only

Settings

Author contributions

All authors made a significant contribution to one or more stages of the study. Dr. Veeranki conceived the study. Drs. Calhoun, Ameredes and Kuo participated in the study design. Dr. Veeranki acquired the data, and conduct data management and analyses with assistance from Mr. Ohabughiro, Mr. Moran and Drs. Kuo, and Mehta. All authors participated in the interpretation of the results. Dr. Veeranki drafted the initial manuscript with assistance and all authors contributed to critical revisions and approved the final version of the manuscript.

Related research

| People also read | Recommended articles | Cited by 12 |
|------------------|----------------------|-------------|
|------------------|----------------------|-------------|

Modifiable factors associated with pediatric asthma readmissions: a multi-center linked cohort study >

Katherine YH Chen et al.
Journal of Asthma
Published online: 24 Jun 2022

Does initial length of stay impact 30-day readmission risk in pediatric asthma patients? >

Andrew J. Knighton et al.
Journal of
Published


Multifac

Nat
Journal of
Published



About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click “Settings”. For further information about the data we collect from you, please see our [Privacy Policy](#).

Accept All 

Essential Only

Settings

Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact


Newsroom

All journals

Books

Keep up to date


Register to receive personalised research and resources by email

 Sign me up



Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions

Accessibility

 Taylor & Francis Group
an informa business

About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click “Settings”. For further information about the data we collect from you, please see our [Privacy Policy](#).

 Accept All

Essential Only

Settings