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

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ABSTRACT

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Cox's proportional hazards model was used to identify predictors. Results: Of 12,842

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.

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

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.

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