



The National Health Interview Survey 2009-2011 was linked by census tract to data from the US Census and the National Center for Health Statistics. Multivariate logistic regression models adjusted for sex; age; race/ethnicity; residence in an urban, suburban, medium metro, or small metro/rural area; poverty; and birth outside the United States, with current asthma and asthma morbidity as outcome variables. Inner-city areas were defined as urban areas with 20% or more of households at below the poverty line.

Results

Methods

We included 23,065 children living in 5,853 census tracts. The prevalence of current asthma was 12.9% in inner-city and 10.6% in non-inner-city areas, but this difference was not significant after adjusting for race/ethnicity, region, age, and sex. In fully adjusted models black race, Puerto Rican ethnicity, and lower household income but not residence in poor or urban areas were independent risk factors for current asthma. Household poverty increased the risk of asthma among non-Hispanics and Puerto Ricans but not among other Hispanics. Associations with asthma morbidity were very similar to those with prevalent asthma.

Conclusions

Although the prevalence of asthma is high in some inner-city areas, this is largely explained by demographic factors and not by living in an urban neighborhood.	
Key words: Inner-city asthma, childhood asthma, urban/rural, neighborh	nood, race/ethnicity
Abbreviations used: CDC (Centers for Disease Control and Prevention), NCHS (National Center for Health Statistics), NHIS (National Health Interview Survey), OR (Odds ratio) (National Center for Health Statistics), NHIS (National Health Interview Survey), OR (Odds ratio)	
To access this article, please choose from the	he options below
Log In	Purchase access to this article
Email/Username:	You must be logged in to purchase this article.
	Claim Access
Password:	If you are a current subscriber with Society Membership or an Account Number, claim your access now.
Remember me Log In	Subscribe to this title
Forgot password?	Purchase a subscription to gain access to this and all other articles in this journal.
Register Create a new account	Institutional Access Visit ScienceDirect to see if you have access via your institution.

Subscribe today:

Which journal will you choose

Supported by the National Institute of Environmental Health Sciences (P50ES015903 , P01ES018176 , P01ES018181 , and R01ES019560), the US Environmental Protection Agency (R832139 , STAR Grant RD83451501 , and R21HL117772), the National Institute of Allergy and Infectious Diseases (R01Al070630 , U01Al083238 , T32Al007007 , K23Al103187 , and R21Al107085), and the National Cancer Institute (K07CA151910). The findings and conclusions in this article are those of the author or authors and do not necessarily represent the views of the Centers for Disease Control, the National Center for Health Statistics, or the Research Data Center.

Disclosure of potential conflict of interest: C. A. Keet has received research support from the National Institutes of Health (NIH)/National Institute of Allergy and Infectious Diseases (NIAID; 1K23Al103187 and 1R21Al10708) and the National Institute of Child Health and Human Development (1R21HD: 073557). M. C. McCormack has received research support from the NIH/National Institute of Environmental Health Sciences (R21 ES024021 and R21ES025840 pending) and has received royalties from UpToDate. C. E. Pollack has received research support from the National Cancer Institute (1K07CA151910-01A1). R. D. Peng has received research support from the NIH (5 T32 ES012871, 5 R01 ES019560, and 5 R21 ES020152). E. McGowan has received research support from the NIH/NAID (5 T32 Al007007 35). E. C. Matsui has received research support from the NIH (5 U01 Al083238 and 5 R01 ES023447), is a member of the US Environmental Protection Agency Science Advisory Board, and is employed by Johns Hopkins University.

© 2014 American Academy of Allergy, Asthma & Immunology. Published by Elsevier Inc. All rights reserved.

< Previous Articles in Press</p>
Next Article >

Copyright © 2015 Elsevier Inc. All rights reserved. | Privacy Policy | Terms & Conditions | About Us | Help & Contact The content on this site is intended for health professionals.

Advertisements on this site do not constitute a guarantee or endorsement by the journal, Association, or publisher of the quality or value of such product or of the claims made for it by its manufacturer.