

ASTHMA

THE PROBLEM

- **27 million people** in the United States have asthma.^{i, ii}
 - **1 in 11 children** and **1 in 12 adults** have asthma.
- Asthma is a leading chronic disease among children and adolescents in the U.S.ⁱⁱⁱ
- Wide disparities exist among asthma sufferers^{iv}:
 - The rates of hospitalizations and deaths due to asthma are both three times higher among African Americans than among whites.
 - Children have two times the rate of emergency department visits and hospitalizations for asthma as adults.
- Asthma is frequently triggered by hazards in the home, such as rodents, cockroaches, mold, and poor indoor air quality.

THE COST

- Asthma costs the U.S. **\$63 billion annually**.^v
 - Direct medical expenditures from hospitalizations and emergency department visits alone are estimated at just over \$50 billion, or **\$3,300 per person** with asthma each year.^{vi}

THE SOLUTION

- Research shows that **home visiting programs targeting asthma can reduce asthma by 70%**^{vii} and that home-based asthma interventions are effective in reducing asthma symptom days and trips to the emergency room.^{viii}
- **CDC-funded home visiting programs and HUD healthy homes programs:**
 - Improve asthma control,
 - Reduce asthma-related hospitalizations and emergency department visits,
 - Reduce the number of school days lost due to asthma, and
 - Improve overall quality of life for patients and caregivers.

RETURN ON INVESTMENT

- A majority of home visiting programs that include education and remediation of triggers show a positive return on investment of between \$5.30 and \$14.00 for every dollar spent.^{ix}
- CDC's National Asthma Control Program (NACP) estimates an ROI of \$71.00 in asthma-related expenditures for every NACP dollar spent on national and state-level programs.^x

NEEDED ACTIONS

Funding in FY 2019 should be:

- ✓ **CDC's National Asthma Control Program = \$30,000,000**
- ✓ **HUD's Office of Lead Hazard Control and Healthy Homes = \$230,000,000**
- ✓ **EPA's Reduce Risk from Indoor Air Program = \$13,733,000**

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- ⁱ U.S. Centers for Disease Control and Prevention. (2018, May). National current asthma prevalence (2016). Retrieved June 18, 2018, from https://www.cdc.gov/asthma/most_recent_data.htm
- ⁱⁱ U.S. Centers for Disease Control and Prevention National Asthma Control Program. (2012). *Asthma's impact on the nation: Data from the CDC National Asthma Control Program*. Retrieved June 18, 2018, from http://www.cdc.gov/asthma/impacts_nation/AsthmaFactSheet.pdf
- ⁱⁱⁱ U.S. Centers for Disease Control and Prevention. (2017, May 9). Adolescent and school health: Asthma and schools. Retrieved June 18, 2018, from <http://www.cdc.gov/HealthyYouth/asthma/>
- ^{iv} National Heart, Lung, and Blood Institute. (2012, December). National Asthma Control Initiative: Reducing asthma disparities. Retrieved June 18, 2018, from <http://www.nhlbi.nih.gov/health-pro/resources/lung/naci/discover/disparities.htm>
- ^v Jang, J., Chan, K. C. G., Hsiang, H., & Sullivan, S. D. (2013, December). Trends in cost and outcomes among adult and pediatric patients with asthma: 2000-2009. *Annals of Allergy, Asthma & Immunology*, 111(6), 516-522. <https://www.sciencedirect.com/science/article/pii/S1081120613006492#>
- ^{vi} U.S. Centers for Disease Control and Prevention National Asthma Control Program. (2013). *An investment in America's health*. Retrieved June 18, 2018, from www.cdc.gov/asthma/pdfs/investment_americas_health.pdf
- ^{vii} Breyse, J., Dixon, S., Gregory, J., Philby, M., Jacobs, D. E., & Krieger, J. (2014, January). Weatherization combined with community health worker in-home education improves asthma. *American Journal of Public Health*, 104(1), e57-e64. Retrieved June 18, 2018, from <http://ajph.aphapublications.org/doi/abs/10.2105/AJPH.2013.301402>
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- ^{ix} The Guide to Community Preventive Services (The Community Guide). (2013, September 27). Asthma control. Retrieved June 18, 2018, from <http://www.thecommunityguide.org/asthma/multicomponent.html>
- ^x U.S. Centers for Disease Control and Prevention National Asthma Control Program. (2013). *An investment in America's health*. Retrieved June 18, 2018, from www.cdc.gov/asthma/pdfs/investment_americas_health.pdf