

# **Asthma in the Michigan: A Community Perspective**

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**ASTHMA & ALLERGY FOUNDATION OF AMERICA  
MICHIGAN CHAPTER**



**Kathleen Slonager, RN, AE-C, CCH  
Executive Director**

# ASTHMA AND ALLERGY FOUNDATION OF AMERICA MICHIGAN CHAPTER (AAFA-MI)

- AAFA-MI is a not-for-profit 501(c)(3) organization founded in 1984
- Part of a national organization which is the oldest (1953) asthma and allergy patient group in the world
- Our mission is to improve quality of life for individuals & communities affected by asthma & allergic diseases through education, training, advocacy, medical management, & environmental greening



# ~ WHAT WE DO ~

## PROGRAMS & SERVICES INCLUDE:

- Ed programs for children, families & their schools
- Training programs for childcare providers & Allied Health Staff
- Continuing Ed Programs for Physicians
- Lectures & Presentations for all ages & groups



~ WHAT WE DO ~

## PROGRAMS & SERVICES INCLUDE:

- Physician referral service: for those seeking a qualified specialist
- Free educational materials
- Medication & equipment assistance
- Asthma & allergy safe products and services:  
[AsthmaAndAllergyFriendly.com](http://AsthmaAndAllergyFriendly.com)



Asthma and Allergy  
Foundation of America®  

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MICHIGAN CHAPTER



# IMPACT OF ASTHMA & ALLERGIES

- Asthma & Allergies affect ~76 million Americans (~50 M for allergies)
- 15 Million affected by Food Allergies
- Asthma accounts for 1/4 of all U.S. ED visits (2 million)
- Food Allergy reactions = 200K ED visits
- Asthma accounts for more than 14 million outpatient visits and 439,000 hospitalizations yearly



# IMPACT OF ASTHMA



- The prevalence of asthma has been increasing since the early 1980s across all age, sex and racial groups
- Asthma is the most common chronic condition among children
- Annual cost of asthma is estimated to be nearly \$56 billion in direct & indirect costs



# IMPACT OF ASTHMA

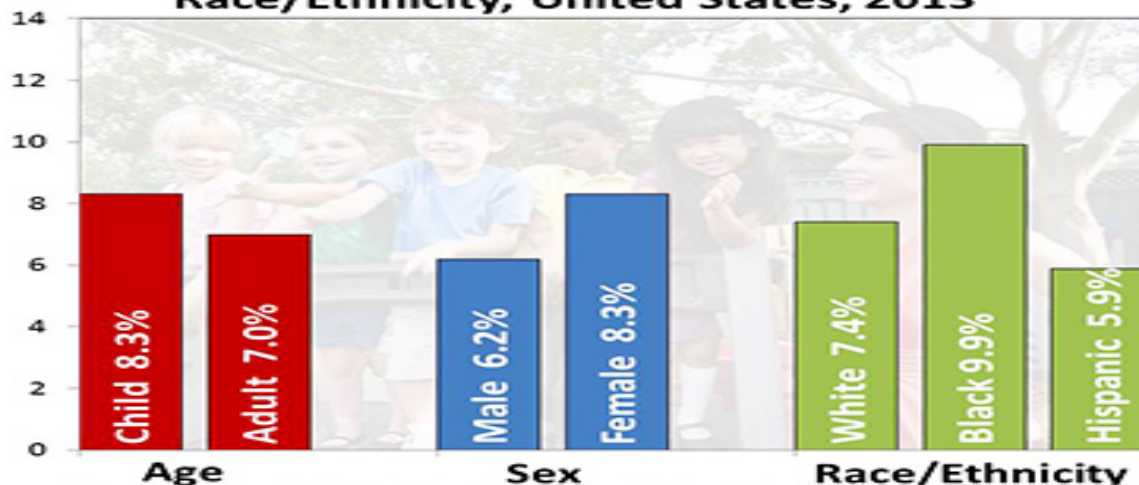
- Asthma is consistently one of the top five most costly health conditions
- Asthma control is strongly affected by many factors outside of the doctor's office, including patient behavior and environmental factors such as smoking, outdoor & indoor air pollution, and household pests



# IMPACT OF ASTHMA

- Ethnic differences in asthma prevalence, morbidity and mortality are highly correlated with poverty, urban air quality, indoor allergens, and lack of patient education and inadequate medical care

**Current Asthma Prevalence Percents by Age, Sex, and Race/Ethnicity, United States, 2013**



Source: National Health Interview Survey, National Center for Health Statistics, Centers for Disease Control and Prevention



# IMPACT OF ASTHMA – DISPARITIES

- Greatest rise in asthma was among African American children: 1 in 6 African American children have asthma
- African Americans are three times more likely to be hospitalized from asthma
- African Americans are three times more likely to die from asthma
- African American women have the highest mortality rate of all groups due to asthma



# IMPACT OF ASTHMA – DISPARITIES

- 16% of African American children have asthma compared to 8.2% of white children
- For African Americans, the rate of emergency department visits is 330% higher and the rate of hospitalizations is 220% higher compared to whites



# IMPACT OF ASTHMA – DISPARITIES

- Approximately 3 million Hispanics in the US have asthma and Puerto Ricans are disproportionately impacted
- Current asthma prevalence is 80% higher for Puerto Ricans than whites
- Puerto Ricans have the highest rate of asthma attacks



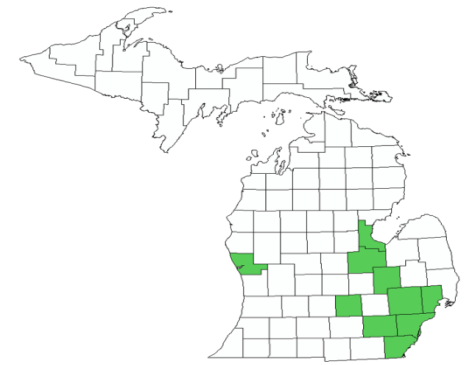
# IMPACT OF ASTHMA - MICHIGAN

- Nearly 1 million - ~25% are children
- Rate is 25% higher than national average
- Only 40.4% of children & 33.8% of adults met the national treatment guideline recommendation of at least 2 routine asthma care visits during 12 months
- Only 30% of children with persistent asthma are filling prescriptions for inhaled corticosteroids; the preferred, first-line medication

*Michigan Asthma Call Back Survey, Michigan Department of Health & Human Services, 2010*



# IMPACT OF ASTHMA - MICHIGAN



- From 2004 through 2006, there were 393 asthma deaths in Michigan
- Deaths for residents of Wayne County (197deaths) during 2002-2006 account for 30% of all deaths for Michigan residents
- Michigan counties with highest rates of asthma death were Bay, Genesee, Ingham, Oakland, Macomb, Monroe, Muskegon, Saginaw, Washtenaw & Wayne Counties



# IMPACT OF ASTHMA - MICHIGAN

- Cost estimates based on national figures suggest that Michigan spends over \$225 million in direct medical costs and an additional \$170 million on indirect costs
- Estimated costs of asthma hospitalizations in Michigan \$11,671
- The average cost for blacks is higher than that for whites (\$11,922 versus \$10,549)

- *(Michigan Asthma facts from the MDCH Report - Epidemiology of Asthma in Michigan, [www.getastmahelp.org](http://www.getastmahelp.org))*



# IMPACT OF ASTHMA - DETROIT

- Ranks 4<sup>th</sup> in the Nation as one of "*The Most Challenging Places to Live with Asthma.*" Asthma and Allergy Foundation of America (AAFA) - 2015 Asthma Capitals report
- Epicenter of asthma mortality in Michigan MDHSS - Epidemiology of Asthma in Michigan Detroit - The Epicenter of Asthma Burden, 2008



## THEREFORE:

- Asthma is a condition that requires coordinated and collaborative efforts of doctors, nurses, pharmacists, patients, health systems & coverage providers AND community organizations to ensure better outcomes for patients as well as improving community health





# A FEW POSSIBILITIES



# HOME VISITS

- According to the CDC, home-based multi-trigger, multi-component, interventions with an environmental focus are effective in improving overall quality of life and productivity in children with asthma
- And are a good value for the money invested
- In MI: Managing Asthma Through Case Management (MATCH) program  
+ outcomes



## HOME VISITS DETROIT - EXAMPLE



- Over 40 home visits in 2012-2013 in Detroit
- Biggest barrier is getting “in”
- Once there – interest and behavioral changes happen
- Phone survey revealed majority of participants in good control 3-6 months post program, only one family had issues needing emergency care
- Next barrier is increasing qualified educators & Org’s to provide visits



# GREEN & HEALTHY HOMES INITIATIVE

“Numerous studies have demonstrated that housing interventions such as addressing structural deficiencies or lack of safety devices improve health...These successes, have renewed interest in promoting health by addressing unhealthy housing conditions—but with a holistic approach.”

Federal Agency Support for Healthy Homes Brown, Mary Jean ScD, RN;  
Ammon, Matthew MES; Grevatt, Peter PhD, September/October 2010 -  
Volume 16 - Issue 5 - p S90–S93



Green & Healthy  
Homes Initiative®  
Detroit-Wayne County



# GREEN & HEALTHY HOMES INITIATIVE

- GHHI Detroit-Wayne County is comprised of nearly 50 partner organizations dedicated to creating green, healthy and safe homes for children and families
- These partners are implementing a cost-effective and integrated approach to healthy housing interventions by aligning, braiding and coordinating resources for health, safety, and energy efficiency



# AAFA & BROOKINGS INSTITUTE: REPORT ON IMPROVING ASTHMA OUTCOMES, LOWERING COSTS

- Report highlights Community Based Approaches for Optimal Asthma Outcomes and Accountable Population Health
- Examines how communities and clinics can improve outcomes for patients with asthma and lower health care costs
- Examines the social determinants of asthma and how we can address them in order to improve health and treatment and lower costs
- Available at: [aafa.org/pdfs/Brookings](https://aafa.org/pdfs/Brookings)



# AAFA & BROOKINGS INSTITUTE

Report highlights most successful programs:

- Target the highest risk patients
- Provide education and home-environment assessment
- Coordinate community, public health, and social services
- Plan for sustainability



## THE BOTTOM LINE

- Proper asthma management has the potential to save at least 25% of total asthma costs—or close to \$5 billion nationwide annually
- Asthma interventions can save up to \$36 in health care costs and work days lost for every \$1 spent
- Targeted Asthma programs improve quality of life, save lives, and enrich community wellness





# QUESTIONS? COMMENTS?

Kathleen Slonager, RN, AE-C, CCH  
Executive Director  
Asthma and Allergy Foundation of America  
Michigan Chapter  
2075 Walnut Lake Road  
West Bloomfield, MI 48323  
#888.444.0333 aafamich@sbcglobal.net  
Facebook/Twitter: **aafami**

[www.aafamich.org](http://www.aafamich.org)

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