

# ASTHMA CONTROL THROUGH EDUCATION AND ENVIRONMENT (ACE) GRANT SUMMARY

## Asthma Interventions in Public and Assisted Multifamily

### Housing Grantee:

Michigan Dept. of Community Health  
Collaboration: Asthma Program and Healthy Homes Section  
P.O. Box 30195, Lansing, Michigan 48909  
517-335-9390 [www.michigan.gov/leadsafe](http://www.michigan.gov/leadsafe)

### Project Contacts:

Wesley Priem, Project Director  
Thomas Largo, Lead Evaluator  
Courtney Wisinski, Environmental Manager  
John Dowling, Asthma Community Outreach Manager

### Duration of Project:

*November 1, 2011 - October 31, 2014 (36 months)\*\**

### HUD Award/Leveraged:

\$450,000/ \$484,660

### Key Partners:

Ingham County Health Department  
Lansing Housing Commission  
Michigan Energy Options  
Greater Lansing Housing Coalition  
Pennsylvania IPM Program  
MSU Extension-IPM Center  
MDCH - Injury and Violence Prevention  
MDCH – Arthritis and Disabilities  
Genesee County Asthma Network

### Target Area:

Lansing Housing Commission Multifamily Developments

- LaRoy Froh Hildebrandt
- Hoyt/Forest Vernon Park

Ten units within a public and assisted multifamily housing development in Flint, MI

### Participant Criteria:

Family income <50 Area Median Income (AMI)

Moderate-severe asthma diagnosis =

- 1 Emergency Department visits
- 1 Hospitalization
- 2 Unscheduled visits to PCP due to asthma
- 3 or more missed school/work days due to asthma

### Evaluation Plan:

The program evaluation will assess ACE's impact on residents' asthma outcomes and quality of life, as well as provide information about ways ACE can successfully be replication in other public housing developments. Using a pre/post comparison design, the outcome measures include:

- Reduction in symptom and attack frequency, school/work absenteeism, and reduced activity due to symptoms.
- Reduction in frequency of self-reported ED, hospitalization, urgent care, and physician/clinic utilization due to acute asthma events.
- Increase in self-reported physician/clinic utilization for routine asthma management and well-checks.
- Reduction in self-reported use of rescue medications.
- Increase in self-reported use of controller medications.
- Increase in the knowledge and performance of asthma trigger avoidance.

## Overview of Technical Approach:

<b>Enrolled Individual Units/Families with Asthma</b>	
<b>Clinical Case Management for Asthma</b>	<b>Risk Management of Home Environment</b>
Enroll in MATCH Program AE-C provides at least 6 home visits, including 1 PCP visit, 1 school/work visit, and 1 social worker visit Complete health outcome surveys & visual home assessments at each visit & 6 months post discharge Educate on asthma management & injury hazards Refer to appropriate medical & community services	In-home environmental assessment Product installation to improve indoor air quality & reduce injury hazards Recommend green & healthy behavior changes Educate participants on product use and maintenance
<b>Housing Development Property Management and Maintenance Staff</b>	
<ul style="list-style-type: none"> <li>Comprehensive building assessment &amp; recommendations</li> <li>Smoke Free Policy Compliance Assistance</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Pest Management Assistance</li> <li>Weatherization audits and recommendations</li> <li>Healthy homes series training (Exhibit L)</li> </ul>
<b>Housing Development Residents</b>	
<ul style="list-style-type: none"> <li>Parent Advocacy Group development to enroll, educate and disseminate program information</li> </ul>	
<ul style="list-style-type: none"> <li>Healthy Homes Training events and other trainings (Exhibit L)</li> </ul>	
<ul style="list-style-type: none"> <li>Referrals to other programs and services as appropriate (FQHC, PATH)</li> </ul>	

<b>Basic and Custom Products and Services</b>	
<b><i>Asthma-Related Products</i></b>	
<ul style="list-style-type: none"> <li>HEPA vacuum/replacement bags</li> <li>Room-sized portable HEPA air filter unit</li> <li>Green cleaning supplies</li> <li>Air conditioning unit for sleeping area*</li> </ul>	<ul style="list-style-type: none"> <li>Dust-mite proof pillow/mattress covers</li> <li>Mattress, box spring, frame*</li> <li>Smoking cessation kit</li> <li>Pillows*</li> </ul>
<b><i>Moisture/Mold-Related Products</i></b>	
<ul style="list-style-type: none"> <li>Window or box fan for bathrooms</li> </ul>	<ul style="list-style-type: none"> <li>Dehumidifiers*</li> </ul>
<b><i>IPM-Related Products</i></b>	
<ul style="list-style-type: none"> <li>Trash can with lid</li> </ul>	<ul style="list-style-type: none"> <li>Various sizes of lidded food containers</li> </ul>
<b><i>Eligible Building Level Custom Services</i></b>	
<ul style="list-style-type: none"> <li>Bathroom &amp; kitchen ventilation improvements</li> <li>Improved ventilation (Roof/ soffit/ foundation vents)</li> <li>Integrated Pest Management Services</li> </ul>	<ul style="list-style-type: none"> <li>Plumbing repairs</li> <li>Minor roof repair &amp; Gutter and downspout repair/installation</li> <li>Brush Removal/Landscaping</li> <li>Child Outdoor Play Area Improvements</li> </ul>

\*Custom Intervention product installation is based on EM's review of visual assessments, severity of asthma and family compliance with identified behavior changes.