

HEALTHY HOMES UNIVERSITY II GRANT SUMMARY

Healthy Homes Demonstration II Grantee: Michigan Dept. of Community Health-Healthy Homes Section
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Name of Project: Healthy Homes University II

Duration of Project: December 15, 2008 - November 30, 2011 (36 months)

HUD Award/Leveraged: \$875,000/ \$560,000

Key Partners: Allen Neighborhood Center, Baker Donora Center, Cristo Rey Community Center, NorthWest Initiative and Southside Community Coalition
American Lung Association
City of Lansing- Planning and Neighborhood Development and Code Enforcement
Genesee County Asthma Network
Greater Lansing Housing Coalition
Lansing Area Safety Council
Lansing Housing Commission
Mid Michigan Asthma Coalition
Michigan State University Extension Services, Ingham County
Michigan State University, Department of Pediatrics and Human Development
MDCH-Chronic Disease Section, Epidemiology Services, Injury and Violence Prevention Section, Lead Safe Home Program, Public Health Administration, Genomics and Genetic Disorders Section
St. Vincent Catholic Charities (Refugee Services)
Ingham County Health Department, Bureau of Environmental Health

Target Area and Why: Ingham County and the following ZIP codes 48917, 48911 and 48906 of Eaton and Clinton counties.

Ten homes within the following ZIP codes of Flint, MI (48503, 48504 and 48505)

Analyzed housing age, hospitalization rates, income, and race data.

Participant Criteria: Household units where low to moderate income children under 18 years of age with asthma reside, with priority given to households with asthmatic children less than 4 years of age and households that reside in high priority target areas.

Income Eligibility Limits for Ingham County Households:

		HOUSEHOLD SIZE							
COUNTY	INCOME STATUS	1	2	3	4	5	6	7	8
Clinton, Eaton and Ingham	Low-income	\$0-23,450	\$0-26,800	\$0-30,150	\$0-33,500	\$0-36,200	\$0-38,850	\$0-41,550	\$0-44,200
	Moderate-income	23,450-37,500	26,800-42,900	30,150-48,250	33,500-53,600	36,200-57,900	38,850-62,200	41,550-66,450	44,200-70,750

Technical Approach:

Site Visit Type	Curriculum	Estimated Timeline for Completion
Introductory Visit	<ul style="list-style-type: none"> ▪ Review of program application. ▪ Review and sign informed consent and participation agreement. ▪ Identification of health, environmental and safety hazards based on an interior/exterior visual assessment. ▪ Qualified households will be referred to medical resources, lead programs, housing rehabilitation programs, weatherization, and other appropriate services. ▪ Qualified households will be referred for custom intervention products or services. ▪ Pre-intervention dust environmental sampling collected in 50 homes. 	Completed 30 days after application is accepted and unit enrolled in the Program.
Baseline	<ul style="list-style-type: none"> ▪ Completion of baseline questionnaire. ▪ Basic product installation. ▪ Education of parent and/or child on methods to reduce asthma triggers and unintentional injuries within the home. 	Completed 2-4 weeks after the initial site visit.
Custom Intervention	<ul style="list-style-type: none"> ▪ Bidding process and contractor selection to happen simultaneously with follow-up visits. 	Simultaneous
3-Month Site Visit	<ul style="list-style-type: none"> ▪ Completion of a 3-Month Follow-up Questionnaire to assess change in medical visit frequency, symptoms, missed school/work days and trigger knowledge. ▪ Obtain additional information on intervention effectiveness to measure the Program's impact and benefits. ▪ Follow-up visual to check the status, quality and usage of the products provided. ▪ Incentive product installation 	Completed 3 months after baseline site visit
6-Month Site Visit	<ul style="list-style-type: none"> ▪ Completion of a 6-Month Follow-up Questionnaire to assess change in medical visits frequency, symptoms, missed school/work days and trigger knowledge. ▪ Obtain additional information on intervention effectiveness to measure the Program's impact and benefits. ▪ Follow-up visual to check the status, quality and usage of the products provided. ▪ Incentive product installation ▪ Post-intervention environmental dust sampling 	Completed 6 months after baseline site visit
12-Month Site Visit 50 HOMES ONLY	<ul style="list-style-type: none"> ▪ Completion of a 12-Month Follow-up Questionnaire to assess change in medical visits frequency, symptoms, missed school/work days and trigger knowledge. ▪ Obtain additional information on intervention effectiveness to measure the Program's impact and benefits. ▪ Follow-up visual to check the status, quality and usage of the products provided. ▪ Incentive product installation ▪ Post-intervention environmental dust sampling ▪ HHU Client Surveys distributed to allow for participant input. 	Completed 12 months after baseline site visit
Graduation	HHU Certificate of Graduation Family Photo Gift Certificate	On completion of 6 or 12-Month site visit.

Housing Treatments (Intervention Products and Services):

Basic Treatment (average \$475/unit)	Custom Treatment (average \$385)
<p>Asthma Related Products</p> <ul style="list-style-type: none"> HEPA vacuum Trash can with secure cover Food containers with securing lids Smoking cessation kit Green cleaning supplies Pillow and mattress covers Integrated Pest Management traps and baits Foam crack sealant Caulk Shower curtain Low allergen furnace filters Door mats HEPA room filter <p>Safety Related Products</p> <ul style="list-style-type: none"> Outlet safety plugs Carbon monoxide and smoke detectors Cabinet safety locks Skid proof bathtub mats Fire extinguisher Gun trigger locks Mercury-free thermometers Nightlights Poison Control Stickers Fan Child safety gate Mini blind cord wind-ups Flashlights Step stool Replacement batteries First aid kits Lead-based paint cleaning kits (post 1978) 	<p>Asthma Related Products/Services</p> <ul style="list-style-type: none"> Beds and pillows Window air conditioning unit for asthma child's sleeping area Dehumidifiers HVAC maintenance and repair Plumbing repairs Minor roof repair Gutter installation/repair Dryer vent installation/repair Bathroom vent installation Improve ventilation (soffit/roof/foundation vent installation) Carpet removal/ floor replacement Bush removal/landscaping (rodent and moisture control) Integrated Pest Management services <p>Safety Related Products</p> <ul style="list-style-type: none"> Outdoor play area improvements Garbage removal <p><i>* Custom Intervention product installation will include one or more of these products and/or services and is based on the Project Manager's review of the visual assessment, program compliance and the severity of asthma symptoms</i></p>

Desired Outcomes:

- Decrease in asthma symptoms and days of reduced activity due to symptoms
- Decrease of acute asthma care events, including unscheduled doctor/clinic visits, urgent care, ER and hospitalizations
- Increase number of well-child doctor visits
- Decreased number of missed school/work days
- Increase of knowledge of asthma triggers and trigger reduction/ avoidance measures
- Positive change in attitude and behaviors regarding ability and barriers to trigger reduction/avoidance

Methods for Capturing Outcomes:

- Questionnaires (co-designed by an Asthma Epidemiologist) with households at Baseline, 3, 6 and 12-months post-intervention.
- Pre and post-intervention environmental dust sampling

Results:

During the Healthy Homes University I grant period (2005-2008) evaluation results showed a significant decrease in asthma symptoms, emergency rooms visits, hospitalizations and missed school days as a result of the program. Based on the study, a 70% decline in urgent care visits during six month of enrollment as compared to six months prior was detected. In addition, there was a decrease in asthma symptoms of greater than 50% during the third month of enrollment in HHU, as compared with the month prior to enrollment. A cost-benefit analysis of the program resulted in a cost savings of approximately \$2,523,857.00 over the grant period of three years.