

# Detroit Asthma Demonstration Pilot Project

November 2015

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# Molina Healthcare



Our mission is to provide **quality** healthcare services to financially **vulnerable families** and individuals covered by government programs.



# Molina in Michigan

## Asthma:

- ▶ Top 5 Admission diagnoses
- ▶ Top 5 ED visit diagnoses
- ▶ Top 2 or 3 CSHCS ED visits (seasonal)
- ▶ Medication possession ratio concern



# Operational Plan

Identification

Recruitment

Systematic home visits  
(The STAR partner CLEARCorps)

# Healthy Homes + Asthma

## The Asthma Picture in Michigan

- ▶ 10.2% of children in Michigan have diagnosed asthma
- ▶ Close to 20% of Detroit children have diagnosed asthma

*Research shows that...*

**“home-based environmental interventions  
can contribute to  
asthma trigger reduction and better health outcomes”**

# Healthy Homes + Asthma

a partnership between...

- ▶ Molina Healthcare of Michigan
- ▶ CLEARCorps Detroit
- ▶ Wayne Children's Healthcare Access Program (WCHAP)

funded by ...

The Kresge Foundation and The Jewish Fund



# 40 Homes with Asthmatic Children Ages 2 -11 Will Receive...

- ▶ Environmental Assessment of Home
- ▶ Evaluation of Asthma Triggers and other environmental hazards
- ▶ Family Action Plan & Intensive Asthma Education by WCHAP
- ▶ Healthy and Safety Products & Minor Home Repairs





# Healthy Homes + Asthma

## Products

- HEPA Rated Vacuum
- Mattress & Pillow Covers
- Pest Management Supplies
- Air Purifier
- Covered Trash Cans
- Dehumidifier
- Gutter Extenders
- Cleaning Supplies

## Minor Repairs

- Carpet Removal/Cleaning
- Vent Bathroom/Dryer to Outside
- Remove Clutter/Dumpster
- Repair Plumbing Leaks
- Minor Roof Repair
- Pest Extermination
- Mold remediation
- HVAC repair

## Partner Referrals for Free Services

- Furnace Tune Up/  
Replacement - DTE Energy
- Lead Hazard Abatement -  
City of Detroit & State of  
Michigan
- Step Forward Michigan for  
property tax assistance

# Healthy Homes + Asthma Projected Outcomes



- ▶ Lowered health plan costs for medical care and RX
- ▶ Fewer hospitalizations
- ▶ Fewer ED visits for asthma
- ▶ Better controller v rescue medicine ratio
- ▶ Fewer missed school and work days

# Healthy Homes + Asthma Outcomes Measurement

- ▶ Health care utilization and cost data (Molina encounters/claims)
  - ▶ 1 year before and 1 year after the intervention
  - ▶ Children with  $\geq$  10-12 months enrollment with Molina
- ▶ Measures on asthma-related knowledge, behaviors, and missed school days
  - ▶ Baseline and 6 months follow-up resident surveys (CLEARCorps & WCHAP)
- ▶ Intervention Costs (CLEARCorps)
  - ▶ Associated with remediating each unit
  - ▶ Indirect costs

# Healthy Homes + Asthma

## Results from Phase One

*Small Sample - Interesting Results*

- ▶ 20 units enrolled and assessed
- ▶ 19 had intervention
- ▶ 14 had follow up



### Self reported outcomes

- ▶ Stopped smoking inside: 5
- ▶ Started venting: 4
- ▶ Better understands child's asthma meds: 13
- Understands household triggers/ attempted to reduce: 14
- ▶ More cleaning: 14
- ▶ Stopped using strong cleaners/ scented products: 6

# Healthy Homes + Asthma Results from Phase One

## Self reported outcomes

- ▶ Child uses rescue inhaler less: 93%
- ▶ Less missed school days: 80%
- ▶ Less ER visits reported: 92%
- ▶ Child is on controller medication: 100%
- ▶ Child has Asthma Action Plan: 79%
- ▶ Less triggers reported in home: 86%
- ▶ Referred others to CCD or WCHAP: 81%
- ▶ Child's asthma reported to be better in control: 100%



# Healthy Homes + Asthma Results from Phase One

## *Total Investment*



### Jewish Fund Grant

#### ▶ \$8,434 in Repairs

Plumbing Leaks/  
roof repairs/carpet cleaning/  
installed humidifier/air duct  
cleaning/pest extermination

#### ▶ \$4,457 in Products

Smoke/CO detectors/  
fire extinguishers/cleaning  
supplies/smoking jackets/etc.

#### \$79,588+ in partner contributions

- ▶ Furnace replacement x 4
- ▶ Energy Star Refrigerators x 3
- ▶ Lead grants x 5
- ▶ Asbestos Abatement
- ▶ Roof Repairs and Gutter Installs/NIP
- ▶ Step Forward Tax Assistance
- ▶ WCHAP Asthma Education



*New Downspout*



*New Furnace*



*Fixed Leaks*



*New Gutters*

