Promoting Public Health-Health Care Collaboration and Reimbursement of Preventive Asthma Control Strategies

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EPA’s Role in Asthma

Agency Mechanisms
- Regulatory Measures
- Research
- Guidance Development
- Outreach & Education
- Partnerships; Leveraging systems

ORIA Asthma Program Aim
Get environmental controls into all elements of asthma management.
- Health care
- Housing
- Schools
- Community Systems, with a special focus on EJ
Asthma Program History at a Glance: 1990-Present

NAEPP Expert Panel Report: Guidelines for the Diagnosis and Management of Asthma (NHBLI)

1990

- EPA Formal Agreements With Cooperative Partners With Schools, Provider, General Education Focus
- EPA-IED Asthma Strategy

1998

- President’s Task Force on Environmental Health Risks and Safety Risks to Children

1999

- EPA Public Awareness Campaign

2000

- White House Federal Asthma Initiative

2005

- EPA Awards Program

2006

- NAEPP Guidelines Implementation Panel Report (NHBLI)

2007

- The Center for Managing Chronic Disease: Putting People at the Center of Solutions

2008

- University of Michigan Asthma Health Outcomes Project (EPA)

2008/09

- NAEPP Guidelines

2010

- Coordinated Federal Action Plan to Reduce Racial and Ethnic Asthma Disparities (EPA-HHS-HUD)

2012

- Community Preventive Services Task Force—Asthma Review—Managing Asthma Through Home Visits: Empowering Individuals to Create Healthy Home Environments (CDC)

2013

- Advancing Healthy Housing: A Strategy for Action (HUD-EPA-HHS)

2014

- Spread In-Home Services and Advance Sustainability

2016

- National Academy of Sciences Clearing the Air: Asthma and Indoor Air Exposures Report (EPA)

Legend:
- Science-Care Guidelines
- Policy
- Practice
Science behind our asthma program

Evidence-Base

Asthma Health Outcomes Project

Care Guidelines

Communities systems

Home visits
How we approach our work

Educate and motivate families

Advance standards of care

Provider & school settings
How we approach our work

Spotlight & Spread Best Practices

Equip and connect communities
Evolution of ORIA/IED Asthma Program

Sustainable Financing

Science, Policy & Practice in Place

- NAEPP Care Guidelines (NHLBI)
- NAS Report (EPA)
- Community Guide (CDC)
- Asthma Health Outcomes Project (EPA)

- Guidelines Implementation Panel Report (NHLBI)
- Asthma Disparities Action Plan and Healthy Homes Strategy (EPA, HHS, HUD)

- Healthcare providers delivering comprehensive care
- Programs delivering in-home asthma care services & receiving coverage
Asthma CarePartners Program Outcomes

Results: Health Resource Utilization

Figure 1: Asthma-related Health Resource Utilization in the Year Prior to and During the Intervention (n=135)

<table>
<thead>
<tr>
<th>Health Resource Utilization</th>
<th>Baseline</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED Visits*</td>
<td>3.4</td>
<td>1</td>
</tr>
<tr>
<td>Hospitalization*</td>
<td>0.7</td>
<td>0.3</td>
</tr>
<tr>
<td>Hospital Days*</td>
<td>2.1</td>
<td>0.4</td>
</tr>
</tbody>
</table>

*Statistically significant difference (p<0.05) found using Wilcoxon signed-rank non-parametric test.

Source: 9/13/2016 Presentation at North Carolina Forum on Sustainable In-Home Asthma Management
Understanding Sustainable Financing Options for In-Home Asthma Care

**In-Home Asthma Visit**

**Education**
- Medicaid (e.g., FFS, Managed Care)
- Private Insurers
- State and Local Health Departments
- Wellness Programs

**Assessment**

**Interventions**
- Supplies (e.g., Bedding, IPM and Cleaning)
- Supplies + Services (e.g., HEPA vacuum and filters, dehumidifier, IPM services)
- Structural Services (e.g., New HVAC, roof, carpet removal, major repairs)

**Potential Funding**
- Pay for Success
- Social Impact Bonds
- Philanthropy

**Potential Funding**
- State Funding (e.g., General Funds, Budget Line Item)
- Prevention & Wellness Trust
- Tobacco Master Settlement Agreement

**Potential Funding**
- Healthy Homes
- Community Development Block Grants
- Weatherization
- Environmental & Housing Department

**Health Funding**

**Housing Funding**
A Closer Look at Medicaid

- Federal-state financing partnership
- State designed and operated according to federal requirements *(State Plan)*
- Primarily managed care

- Increased focus on prevention, disease management and population health
- Expanding eligibility

Opportunities:
- Improve health outcomes
- Reduce costs
Federal Asthma Disparities Action Plan

Strategy 1:
CDC, NHLBI
ACF, AHRQ, CMS, CPSC, DOE, ED, EPA, HRSA, HUD, NICHD, NIEHS, NIMHD, USDA

Strategy 2:
CDC, EPA, NHLBI
ACF, AHRQ, CMS, CPSC, ED, DOE, DOT, HRSA, HUD, NIH

Strategy 3:
CDC, EPA
AHRQ, CPSC, HRSA, NIH

Strategy 4:
EPA, HUD, NIH
ACF, CDC, DOE, HRSA
Federal Agencies Working to Expand Access to In-Home Asthma Care Services

**HUD:**
- Host summits
- Support grant programs funding healthy homes interventions
- Promote smoke-free multifamily housing

**CDC:**
- Lead work to develop standard measures
- Administer National Asthma Control Program for states (focus on coverage & reimbursement)
- Target asthma through 6-18 Initiative

**NHLBI:**
- Awarding grants to assess community-based, integrated interventions (home, family, medical care, community)

**EPA:**
- Support AsthmaCommunityNetwork.org, a national network of 1000+ community programs
- Invest in cooperative agreements to spread in-home asthma care and advance sustainability
# New Investment Areas for EPA: Spread In-Home Care & Advance Sustainability

<table>
<thead>
<tr>
<th>Activity</th>
<th>Key Player/Tools</th>
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</table>
| Provide technical assistance  
  - Design & delivery of in-home asthma care  
  - Sustainable Financing | AsthmaCommunityNetwork.org  
  - Webinars, Discussion Forums, podcasts, Medicaid & Community Health Worker Content |
| **Targeting States** | National Center for Healthy Housing  
  Cooperative Agreement  
  [http://www.nchh.org/Program/EquippingStatesforReimbursement](http://www.nchh.org/Program/EquippingStatesforReimbursement)  
  - Learning modules, mentorship, tools/resources |
| **Targeting Tribes** | ALA Upper Midwest  
  Cooperative Agreement  
  - Trainings |
| **Targeting Schools** | Public Health Institute/RAMP  
  Cooperative Agreement ([www.rampasthma.org](http://www.rampasthma.org))  
  - Trainings, learning collaboratives |
| Assess current health plan coverage practices and spread best practice approaches | America’s Health Insurance Plans (AHIP)  
  Cooperative Agreement ([www.ahip.org/asthma/](http://www.ahip.org/asthma/))  
  - 2015 National Asthma Assessment  
  - Webinars  
  - 2016 Leadership Roundtable  
  EPA Award Winners ([www.epa.gov/asthma](http://www.epa.gov/asthma)) |
| Coordinate with Federal partners (Action Plan)  
  - Advance local sustainability conversations | HUD Reimbursement Summits |
It takes a village...

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www.epa.gov/asthma
www.asthmacommunitynetwork.org