

Tailored Environmental Interventions

Effective environmental interventions drive asthma program results. Strategies for program effectiveness include:

- Educating providers on environmental triggers
- Helping providers conduct assessments and education in clinical settings
- Making referrals for interventions easy
- Delivering interventions where patients need them

NATIONAL ASTHMA FORUM

Communities in Action for Asthma-Friendly Environment



Tailored Environmental Interventions

Boston Public Health Commission's Asthma Program Margaret Reid, RN

Boston Medical Center Megan Sandel, MD, MPH

Healthy Homes Programs What We Believe In

Our Philosophy: Partner Widely to Create a Continuum of Care

Why we are essential to the delivery of quality asthma care in our community:

- ➤ Health care systems reinforce importance of environmental management in asthma
- Community-based resources in place to reduce home environmental triggers
- ➤ Collaborate with large housing authorities on design and maintenance of affordable housing

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Healthy Homes Programs

- Public Health Partnership Boston Medical Center and Boston Public Health Commission
- · Located: Boston, Massachusetts
- Program Established: 1998
- **Serving:** Annually 100 home visits, over 150 code enforcement inspections, another 100 through grants
- Key Partners: Boston Urban Asthma Coalition, Committee for Boston Public Housing, Boston Housing Authority, and Inspectional Services Department

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Our Tailored Environmental Interventions Partnering to Improve Asthma Care

- Created a city-wide environmental network
 - Engage non-traditional partners
- · Educate and empower clinical staff
- Use information technology to manage city-wide environmental interventions
- Home assessment, education, and mitigation
- Preventive measures in public housing
- · Involve housing code enforcement

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Our Tailored Environmental Interventions Breathe Easy in Action

- Pediatric patient from Cape Verde with wellcontrolled asthma has sudden exacerbations
- Ends up in the ER
- Rapid response protocol leads to in-home, culturally-competent education
- Code enforcement engaged, landlord cited
- Child improves after environment changes, not with increase in medications

Healthy Home Visits



- 1.) In-home asthma education
- 2.) Refer for home inspection with Breathe Easy at Home Program
- Low-cost supplies to assist with maintaining a pest-free environment: -Cleaning supplies -Trash can with lid

 - -3 plastic food containers

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Our Impact

- Key indicators for measuring success:
 - Leveling of ER and hospitalizations from 2007 to 2008, increased preventive care, asthma education, and environmental visits.
 - In 2005, for all ages, the asthma hospitalization rate was 43.9% lower than in 1994.*

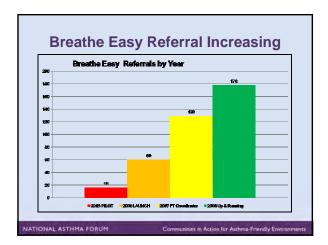
*Health of Boston, 2005. Boston Public Health Commission.

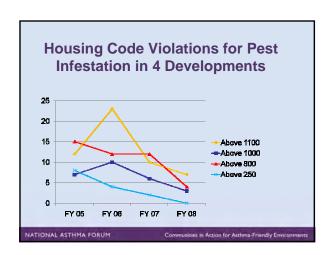
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Our Impact

- The results we're most proud of:
 - Increase in referrals for Breathe Easy at Home program to 178 referral last year
 - 35 hospitals and health centers now engaged
 - Reduction in pest complaints in public housing

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Sharing Our Value – Sustaining Our Success

- · We demonstrate our value by:
 - Increased use of environmental services
- Our environmental intervention program serves up to 300 each year
- · We support that growth through:
 - Partnership with health care providers
 - Streamlined referral system
 - Funding from local government
 - Involvement of advocacy community

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Tailored Environmental Interventions

Children's Hospital of Philadelphia's Community Asthma Prevention Program

Dr. Tyra Bryant-Stephens

Community Asthma Prevention Program What We Believe In

Our Philosophy: Bridging the Gaps Facing Our Patient Population

Why we are essential to the delivery of quality asthma care in our community:

- ➤ Promotion of improved self-management through education of caregivers and children with asthma
- ➤ Improving communication between patients/caregivers and physicians

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Community Asthma Prevention Program Who We Are · Hospital devoted to the care of children · Located: Philadelphia, Pennsylvania • Program Established: 1997 • Large minority population: 1.4 million in city with 20-25% prevalence of asthma in inner-city community • Serving: 3,000 families • Key Partners: School District of the City of Philadelphia, City Department of Health, ALA, Congreso de los Latinos, Health Federation NATIONAL ASTHMA FORUM Communities in Action for Asthma-Friendly Envi **Our Tailored Environmental Interventions Bridging The Gap** • Saw a Gap – good clinical care but high ER visits · Needed to address how caregivers manage asthma in the community and at home - Barriers facing our population · Use of community health workers - In-home education and environmental mitigation - Symptom diaries - Patient monitoring and follow-up NATIONAL ASTHMA FORUM **Our Tailored Environmental Interventions** How We Make It Work • In-home education, assessment and mitigation leads to improved outcomes • Families engaged through home interventions become champions and leaders of the program

SkillS NATIONAL ASTHMA FORUM

• Keys to program success include:

- Community health workers' relationship with caregivers and community expertise

- Ability to effectively teach families self-management

Our Impact

- Key indicators for measuring success:
 - Reduced asthma morbidity
 - Improved self-management skills and reduced exposure to asthma triggers
- The results we're most proud of:
 - Decrease in asthma-related hospitalizations, ER visits, sick visits, and asthma symptoms
 - Decrease in inpatient stays and ER visits compared to control group
 - 13% increase in asthma knowledge from education course

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Communities in Action for Asthma-Friendly Environments

Sharing Our Value – Sustaining Our Success

- We demonstrate our value by:
 - Sharing our results with our partners, providers, patients and staff so they see our impact
 - Communicating patient health improvements so new providers want to pay us to deliver environmental services to their patients
 - Publishing our outcomes
 - Expansion of our asthma services to the entire city
- We support that growth by:
 - Partnerships with city-wide providers
 - Streamlined referral system

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