

Communities in Action NATIONAL ASTHMA FORUM

WASHINGTON, DC JUNE 17-18, 2010

Clinical-Settings Break In Wilson/Roosevelt Room



Communities in Action NATIONAL ASTHMA FORUM

WASHINGTON, DC JUNE 17-18, 2010

Boston Medical Center

Delivering Clinic-Based Tailored Environmental Interventions

Dr. Megan Sandel

Boston Medical Center

- Private, not-for-profit academic medical center and safety-net hospital for Boston
- Population Served: Nearly 1 million patient visits per year; about 70% from underserved populations
- Key Partners: Boston Public Health
 Commission, Boston Urban Asthma Coalition,
 Committee for Boston Public Housing, Boston
 Housing Authority, Inspectional Services, and
 Department of Public Health

Environmental Interventions in Clinic Settings

- BMC delivers environmental interventions in clinic settings by:
 - Training clinical staff to conduct environmental exposure assessment in clinical settings
 - EHR prompts for exposure assessments
 - Delivery of asthma action plans
 - Clinical counseling on trigger mitigation and avoidance
 - Referral to home-based intervention inspections
 - Recent addition of Community Health Workers

Environmental Interventions in Clinic Settings

- Home-based environmental management is coordinated with clinical care through:
 - Close communication among medical home, public health and housing agencies to address structural environmental factors
 - Internet-based referral and home-visit tracking system that creates feedback loop for clinicians
 - Partnerships with BPHC, Boston Urban Asthma
 Coalition, BHA, and Neighborhood Health Plan
 - New pilot study having Community Health Workers in partnership with Dept of Public Health

Environmental Interventions in Clinic Settings

Activities	Outputs	Outcomes	Impact
 Train clinical teams to assess exposures to environmental triggers 	 Percent of patients with trigger exposures documented in EHR Referrals for high risk patients for home visits and social support 	 Reduced exposure to environmental triggers that exacerbate asthma 	 Reduced ED visits and hospitalizations for asthma Improved patient QOL

Evaluation of Clinic-Based Environmental Interventions for Asthma: Practical Aspects

CAPT David Callahan, MD National Center for Environmental Health Centers for Disease Control and Prevention





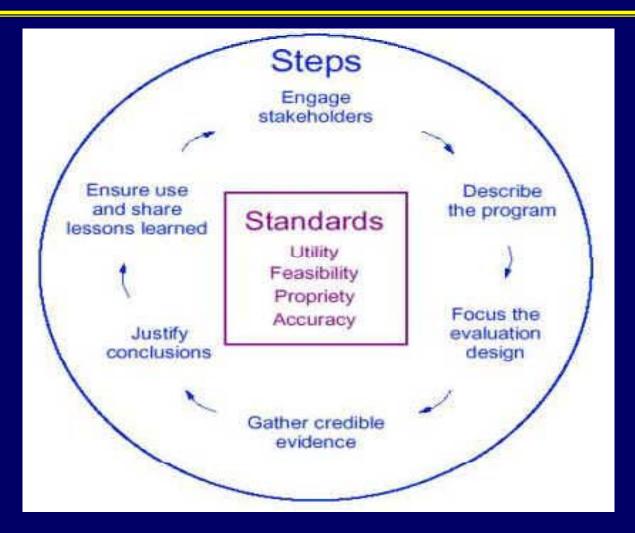
The findings and conclusions in this report are those of the author and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

Objectives

Participants will be able to:

- List the six steps of the CDC Framework for Evaluation
- Explain an excerpt from a sample logic model for clinic-based environmental interventions
- Consider possible output and impact measures, and sources of credible data for those measures

CDC Evaluation Framework



http://www.cdc.gov/eval/framework.htm

Six Steps for Program Evaluation

Engage stakeholders

Those involved, those affected, primary intended users

Describe the program

Need, expected effects, activities, resources, stage, context, logic model

Focus the evaluation design

Purpose, users, uses, questions, methods, agreements

Six Steps for Program Evaluation

Gather credible evidence

Indicators, sources, quality, quantity, logistics

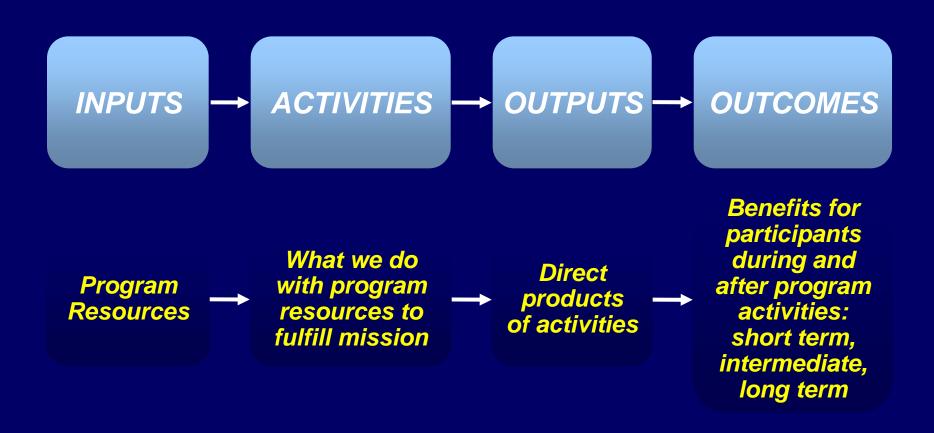
Justify conclusions

Standards, analysis/synthesis, interpretation, judgment, recommendations

Ensure use and share lessons learned

Design, preparation, feedback, follow-up, dissemination

Generic Program Logic Model



Source: Rebecca Murphy-Hoefer, PhD, MPH

Environmental Interventions in Clinical Settings

Activities Outputs Outcomes Impact

Train clinical teams to assess exposures to environmental triggers

Percent of patients with trigger exposures documented in EHR

• Referrals for high risk patients for home visits and social support

Reduced
exposure to
environmental
triggers that
exacerbate
asthma

Reduced ED
visits and
hospitalizations
for asthma
• Improved
patient QOL
Environmental

Environmental Interventions in Clinical Settings

- Training clinical staff to conduct environmental exposure assessment in clinical settings
- EHR prompts for exposure assessments
- Delivery of asthma action plans
- Clinical counseling on trigger mitigation and avoidance
- Referral to home-based intervention inspections
- Recent addition of Community Health Workers

Possible Measures and Sources of Data

Of Outputs:

EHR prompts (Y/N)

Asthma Action Plans in EHR for all ICD-9 493

Documentation (notes) of clinical counseling on triggers

Of Impacts:

Same-patient reduction in ER visits over time from admin/billing/claims data

Total ER visits (billing, EHR, etc.)

ATAQ scores from EHR, simple paper tracking