

Regional Asthma Disease Management Program

Melinda Shuler, BSBA, RCP, HHS, AE-C
Regional Clinical Coordinator / Principal Investigator
Mission Children's Hospital
Asheville, North Carolina





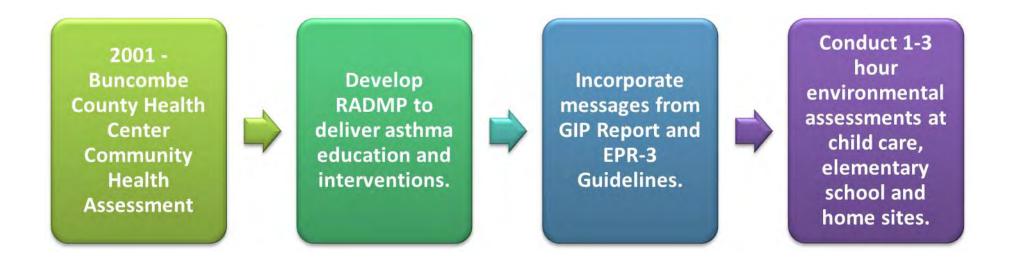
Program at a Glance

- Location: Asheville, North Carolina
- Type of Program: Non-profit Community Health System
- **Service Area:** 21 counties in western North Carolina, including the Eastern Band of the Cherokee Indian Reservation
- Population Served: Remote, rural; Urban; Latino and Slavic communities
- **Results:** 3,415 children received "asthma friendly" environment interventions; 259 staff educated; 91% of 235 adults pledged to create smoke-free environments for children; significant decreases in ED visits, hospitalizations and school absences.



Building the System

Conduct Needs Based Planning:





Building the System

Focus on Resource Strategy at Every Step

- Utilize Community Partnerships:
 - Cherokee Indian Hospital Authority
 - National Asthma and Allergy Supply Company
 - Charitable community partners and faith-based organizations
- Conduct Regional Workshops:
 - Held in elementary schools, childcare centers and primary care offices



Evaluating the System

Collect health data

 Severity level, ED utilization, hospitalization, school absences, quality of life questionnaires, environmental trigger exposure

Encourage patients to pledge to create an asthma friendly environment

Examine patient charts to assess program effectiveness:

- ED visits: 158 to 9 (pre- to post-intervention)
- Hospitalizations: 60 to 3 (pre- to post-intervention)
- Missed school days: 17 to 9 (pre- to post-intervention)
- Lung spirometry and exhaled nitric oxide improved
- Cost of care decreased: ED \$142,006 and hospitalizations \$687,477



Sustaining the System

Budget and administrative support provided by Mission Children's Hospital:

- Public/private grants
- Mission Healthcare Foundation
- Clinical coordinator, PT case manager, PT administrative support

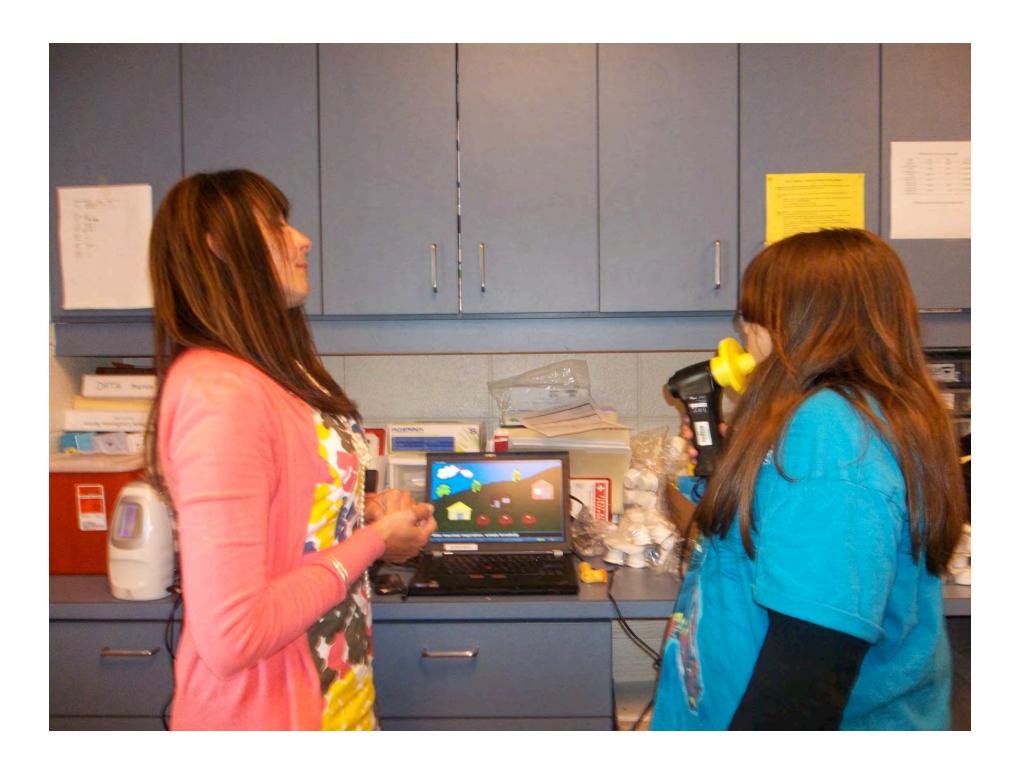
Access to Mission Health System Resources

Applied for Medicaid licensure to bill for services provided Partners and Mission Health System provide in-kind language services











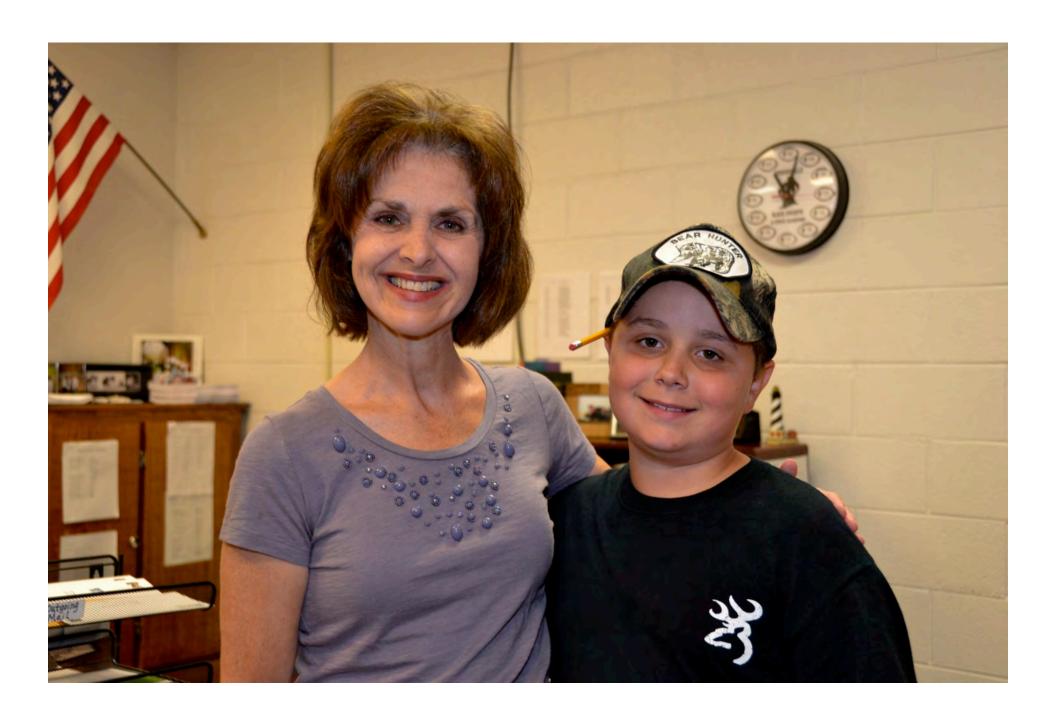






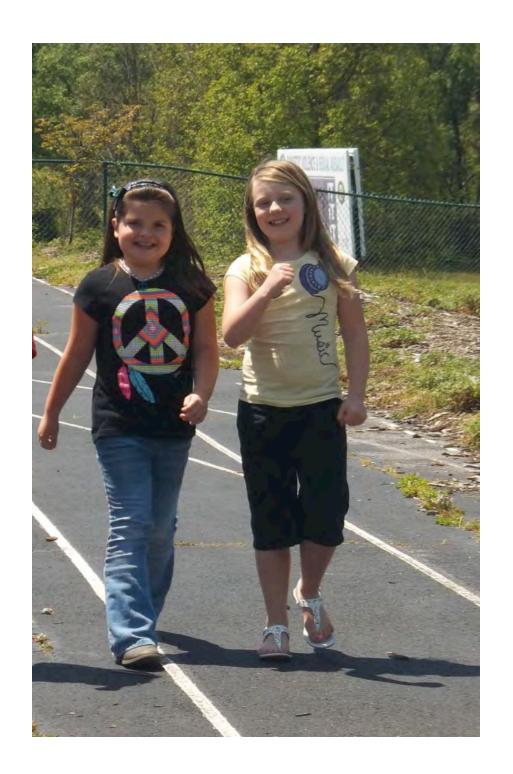
















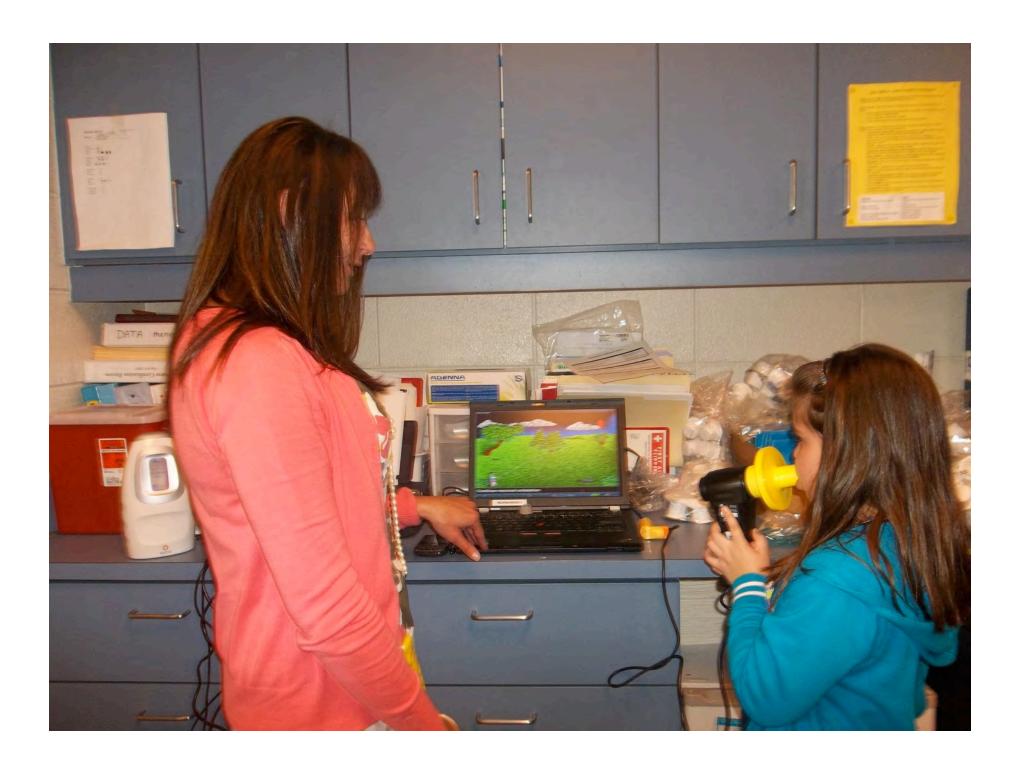






























MISSION CHILDREN'S CHOSPITAL



National Environmental Leadership Award in Asthma Management

2012 Health Care Provider Recipient

This award is EPA's highest recognition a program and its leaders can receive for delivering excellent environmental asthma management as part of their comprehensive asthma care services. Each year, EPA honors exceptional health plans, health care providers and communities in action.