

Partnering with Schools to Improve Asthma Care for Urban Children

Jill S. Halterman, MD, MPH
Professor of Pediatrics
Division Chief, General Pediatrics
Executive Vice Chair, Department of Pediatrics
University of Rochester School of Medicine and Dentistry

Students with Asthma Struggle to Succeed

Joshua

Emergency visits

Difficulty sleeping

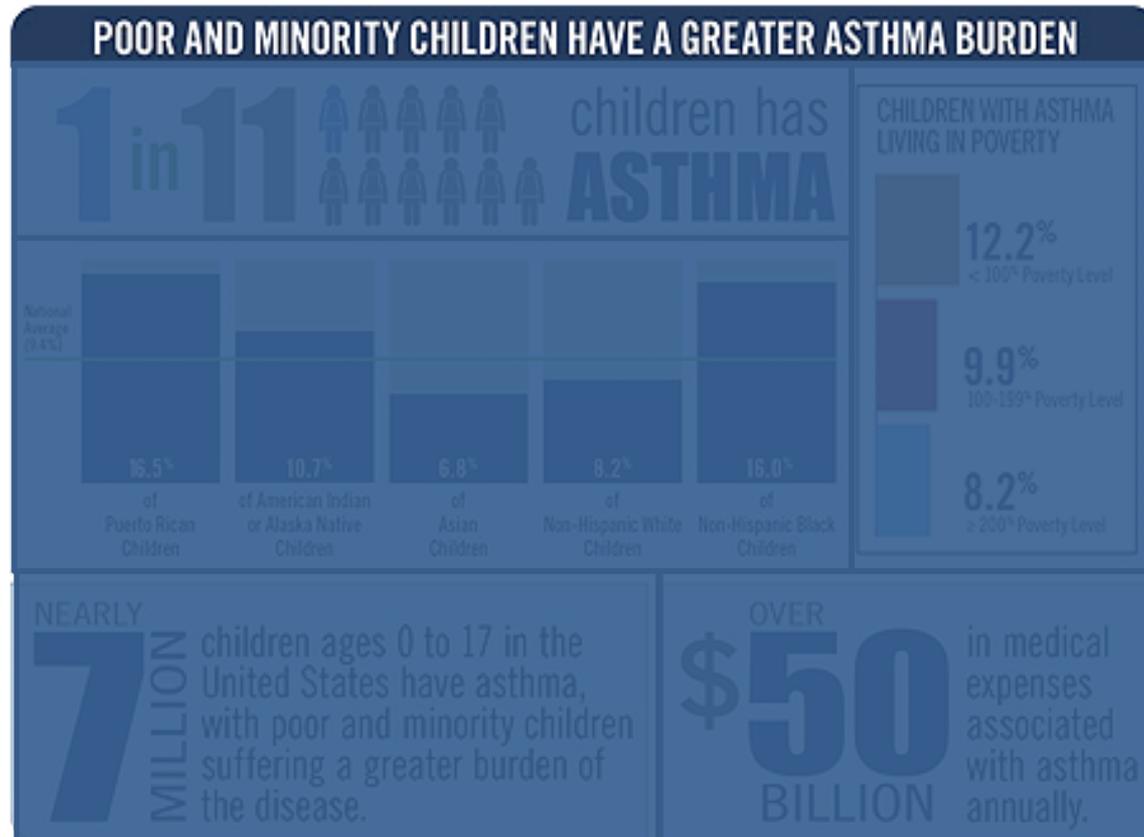
Frequent absences

Poor attention

Inconsistent adherence



The Burden of Asthma



• Source: Coordinated Federal Action Plan to Reduce Racial and Ethnic Asthma Disparities, www.epa.gov/children/taskforce/federal_asthma_disparities_action_plan.pdf

Impact on Schools

Missed school days

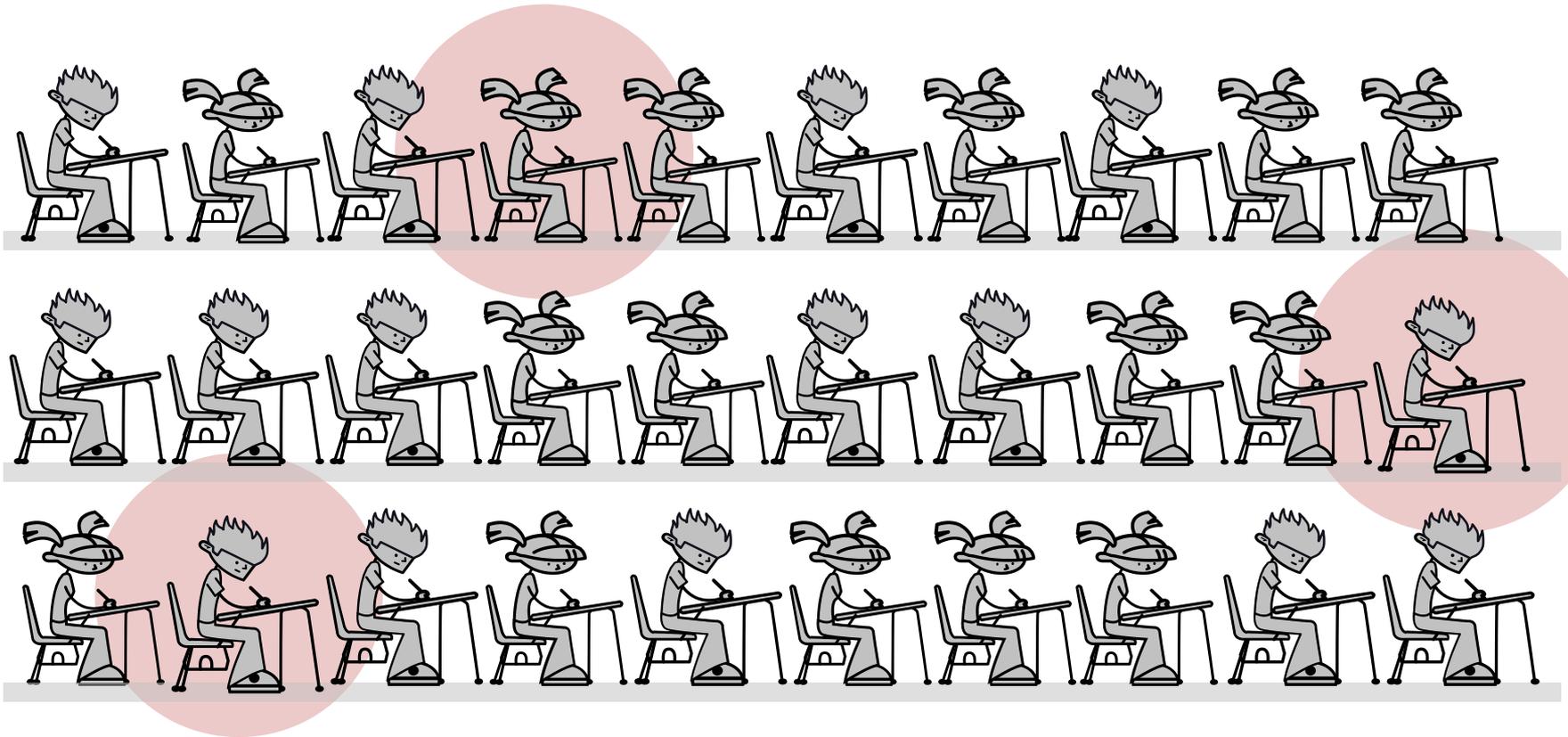
Poor sleep

Activity limitation

Poor school performance

**Impacts all members of
school community**

**On average,
3 children in a classroom of 30**



are likely to have asthma.*

A blurred background of a classroom. In the foreground, a young boy in a dark green shirt is smiling. Behind him, other children are visible, some looking at the camera. On the wall, there are several colorful signs with text: "Parent Contact", "Take a Break", "Slow Down", "Ready to Learn", and "Good". There are also some toys and a basket on a table in the foreground.

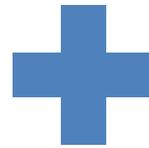
13.8 million

Number of missed school days
among children with asthma

**Guideline-Based
Care can Improve
Outcomes**

National Asthma Guidelines

Daily preventive
medications

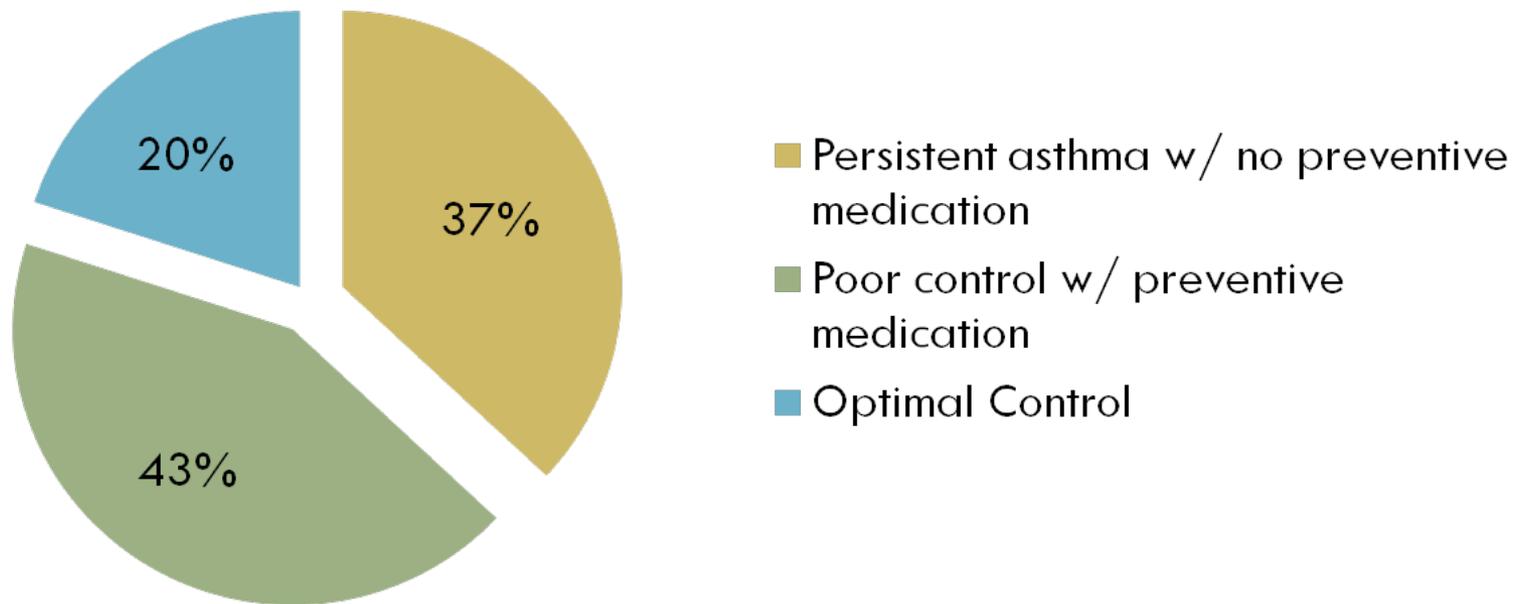


Adjustments for
poor control



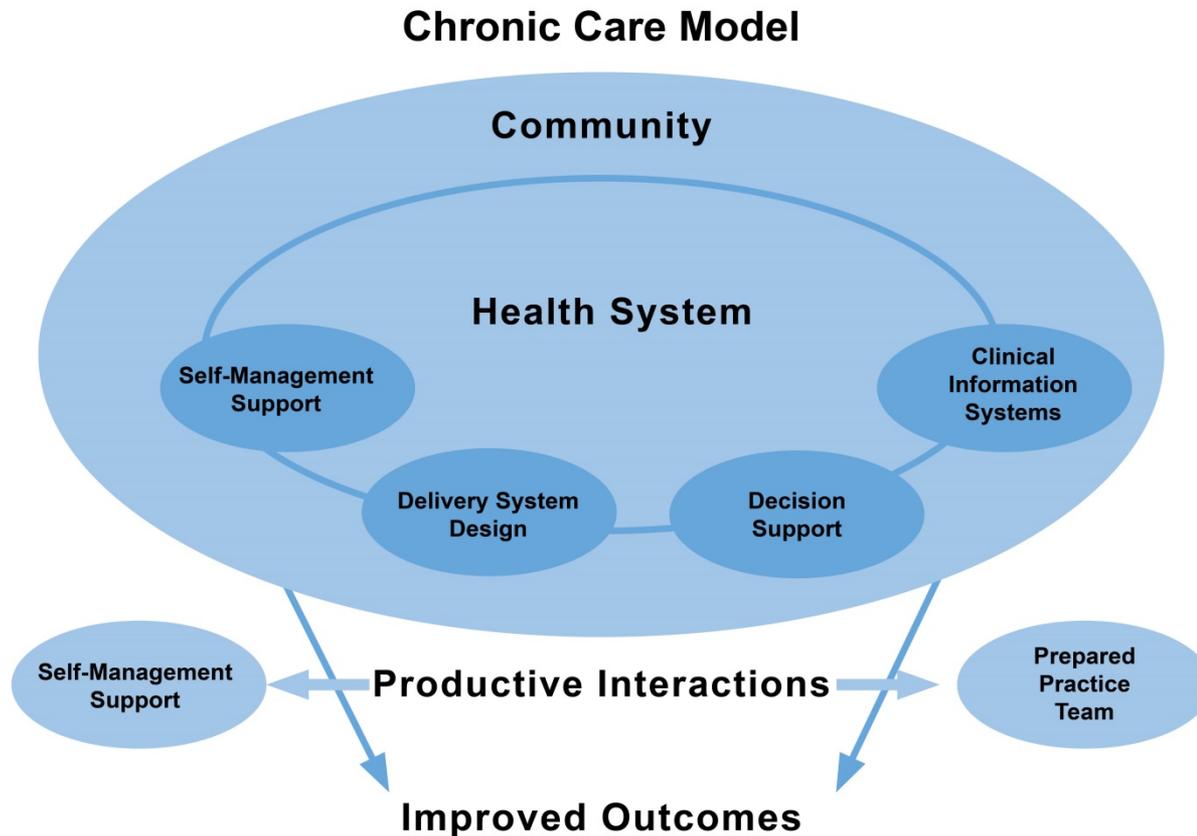
Improved outcomes

Inadequate Therapy and Poor Control



National Asthma Survey; N=975

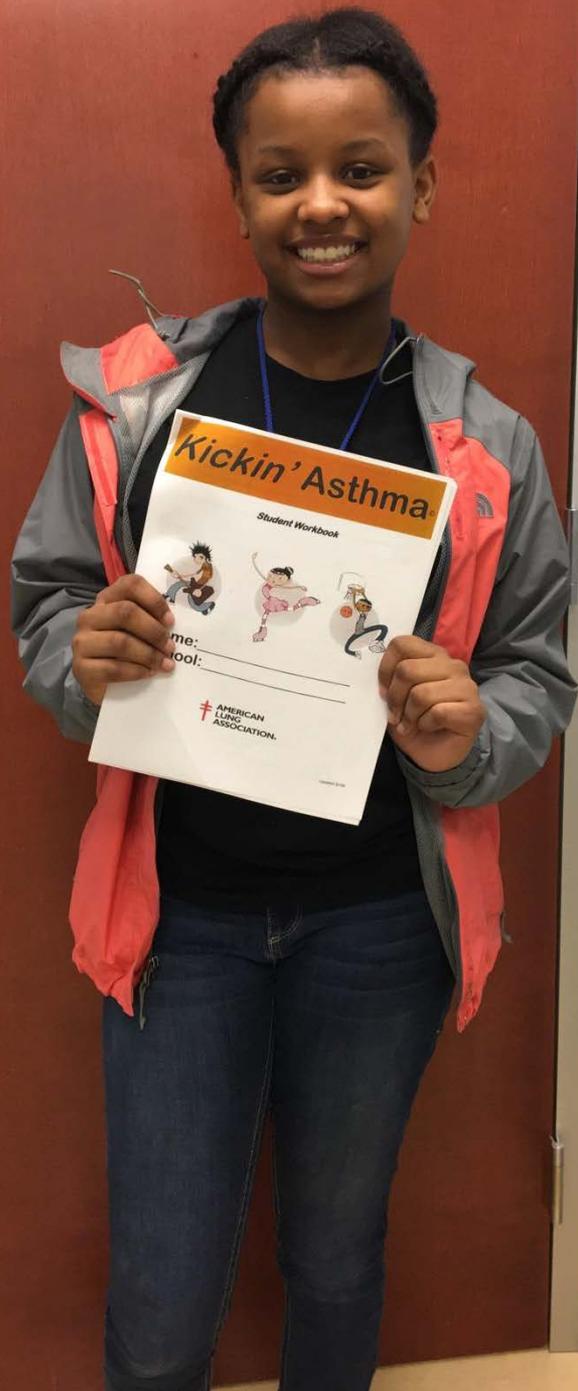
How to Address Gaps in Care?



Elements of health care system that encourage high-quality care

Ensure access to services that improve outcomes

**School-Based
Programs Can
Improve Outcomes**



Provide opportunities to identify high-risk children

Build optimized systems of care where children spend most of their day

Partnership with School Nurse Program



The Preventive Care Program
for Urban Children with Asthma



Directly Observed Therapy



Treatment Adjustments

**Symptom
Days**

**Symptom
Nights**

**School-Based Asthma
Therapy (SBAT) Trial**

25%

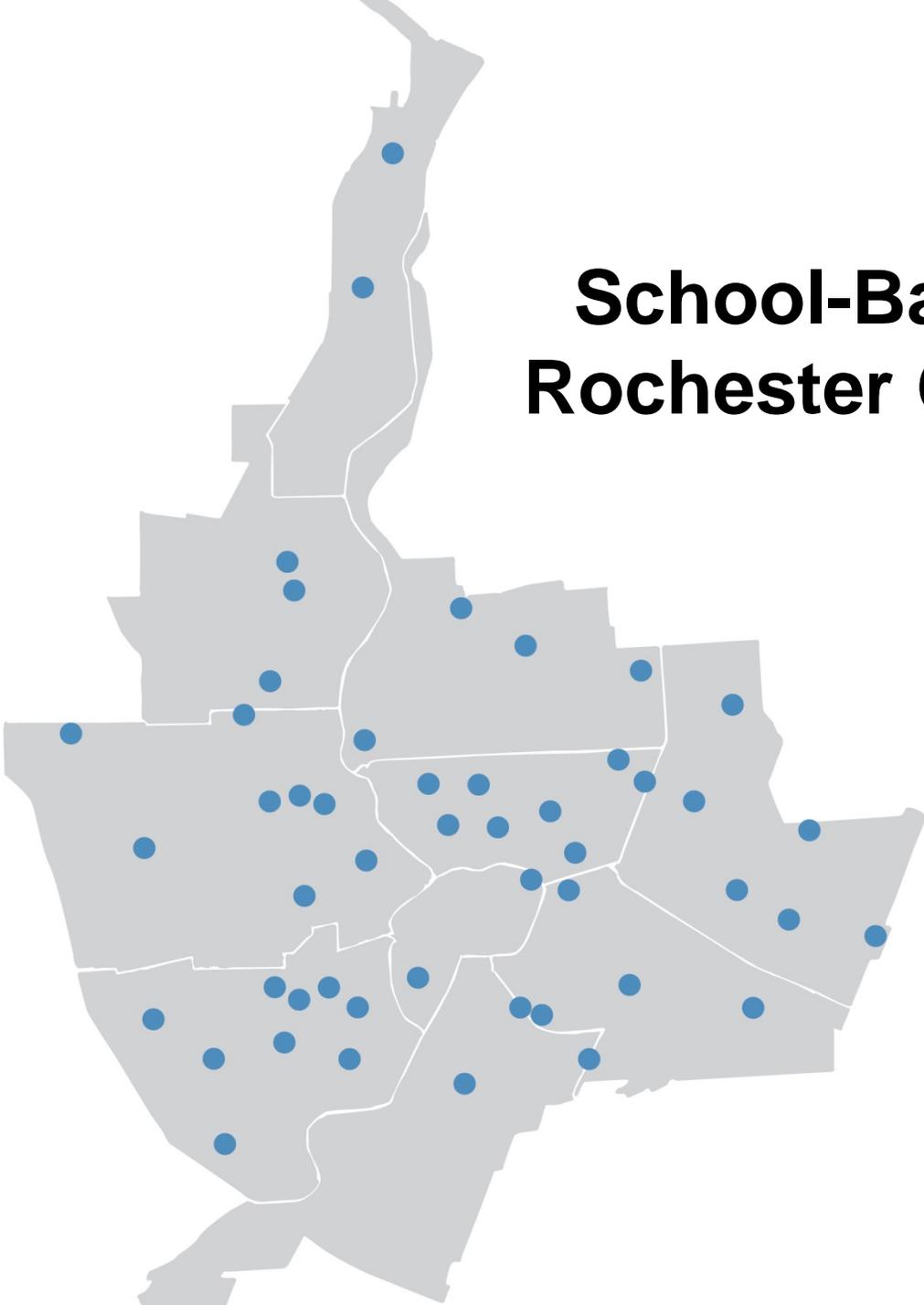
Reduction

**Activity
Limitation**

**Asthma
Attacks**

**Days Absent
From School**

School-Based Asthma Care Rochester City School District



School-Based Asthma Care Nationally



National Association of School Nurses



THE UNIVERSITY OF ARIZONA



NATIONWIDE CHILDREN'S

When your child needs a hospital, everything matters.™



Children's Hospital of Philadelphia



Women & Children's Hospital of Buffalo

A Kaleida Health Facility



Children's National

School-Based Telemedicine Enhanced Asthma Management (SB-TEAM)

Child site:
School or Daycare



Clinician site:
Pediatric Office



Students with Asthma Struggle to Succeed

Despite guidelines, treatment
often is suboptimal

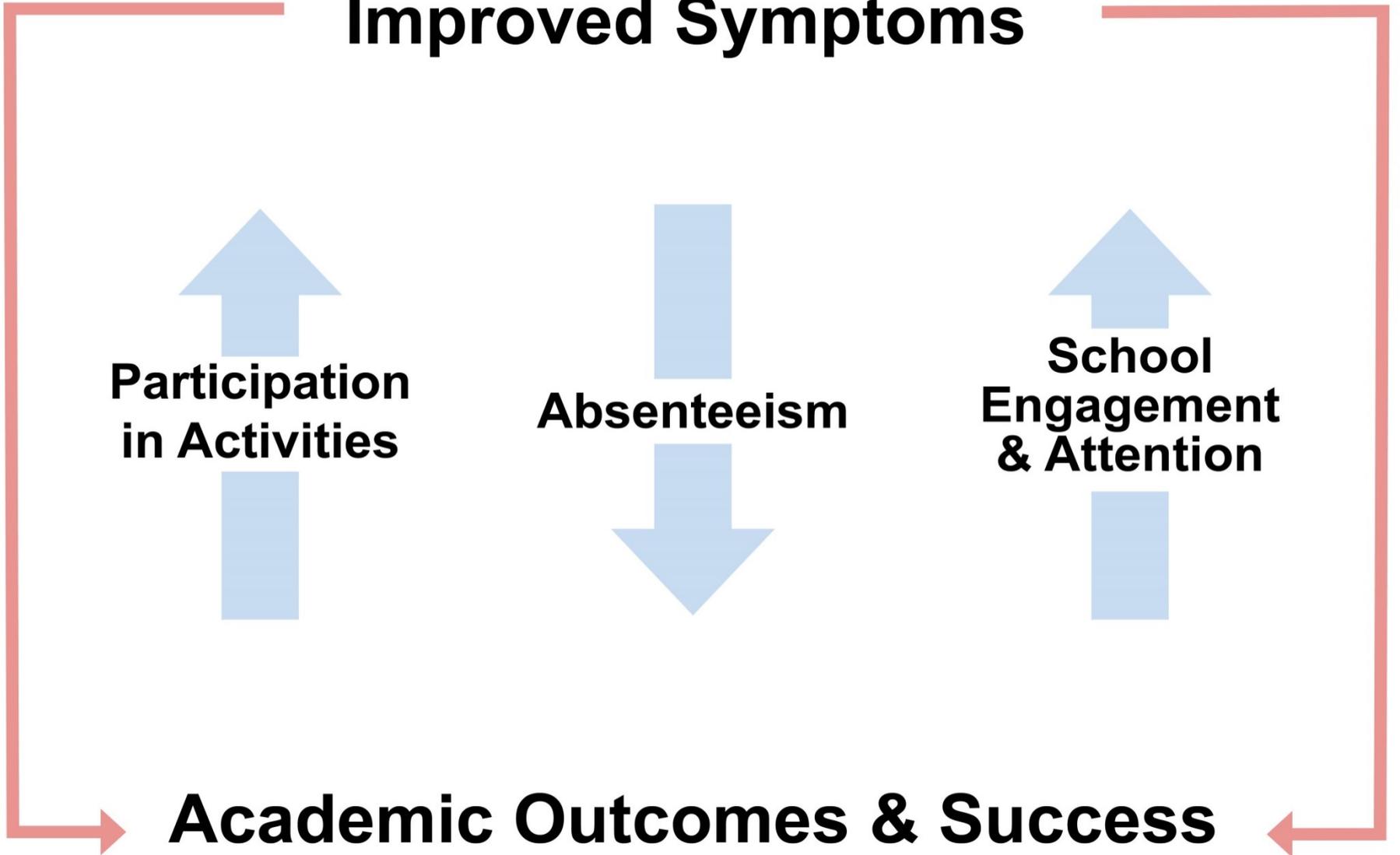
HEALTH CARE + SCHOOL PARTNERSHIPS



Improved Symptoms



Academic Outcomes & Success



Joshua

Consistent medication

Symptoms controlled

Better sleep

Decreased absenteeism

Improved performance





The Preventive Care Program
for Urban Children with Asthma