

CDC 6|18 INITIATIVE CONTROL ASTHMA



Elizabeth Herman, MD, MPH

Medical Epidemiologist

Air Pollution and Respiratory Health Branch

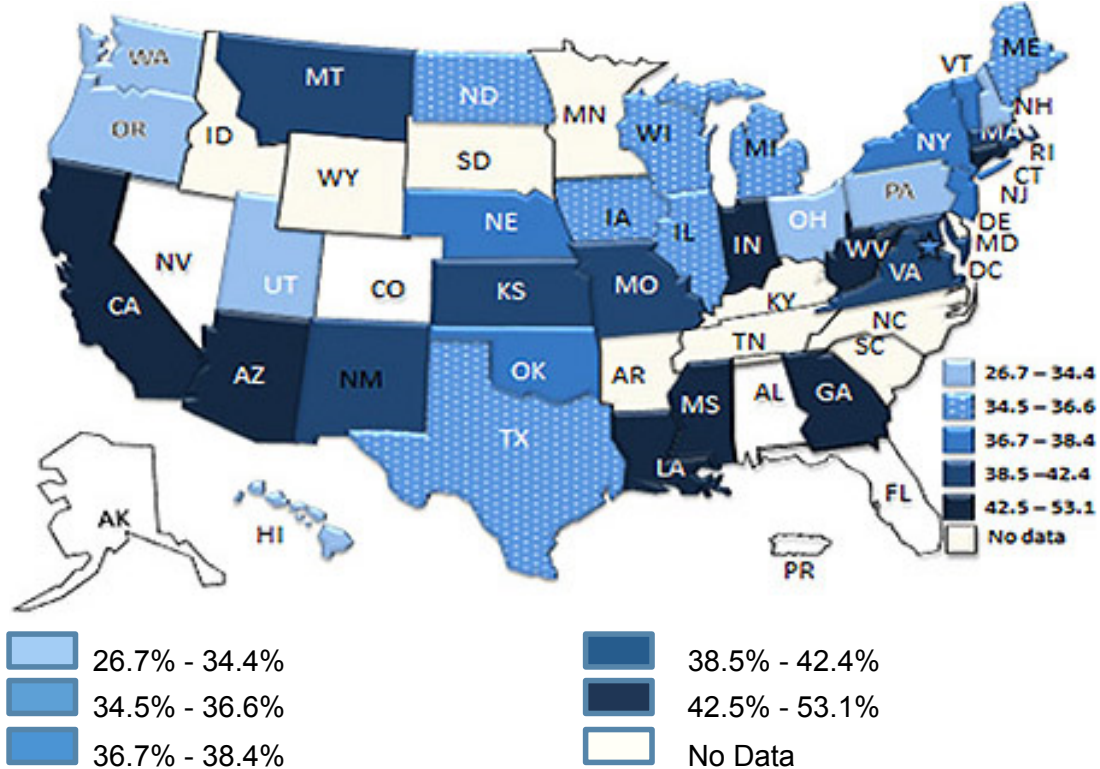
Division of Environmental Hazards and Health Effects

National Center for Environmental Health

Asthma's Impact on the Nation

Aligning Burden of Disease with Target Population

Percentage with Uncontrolled Asthma: Children



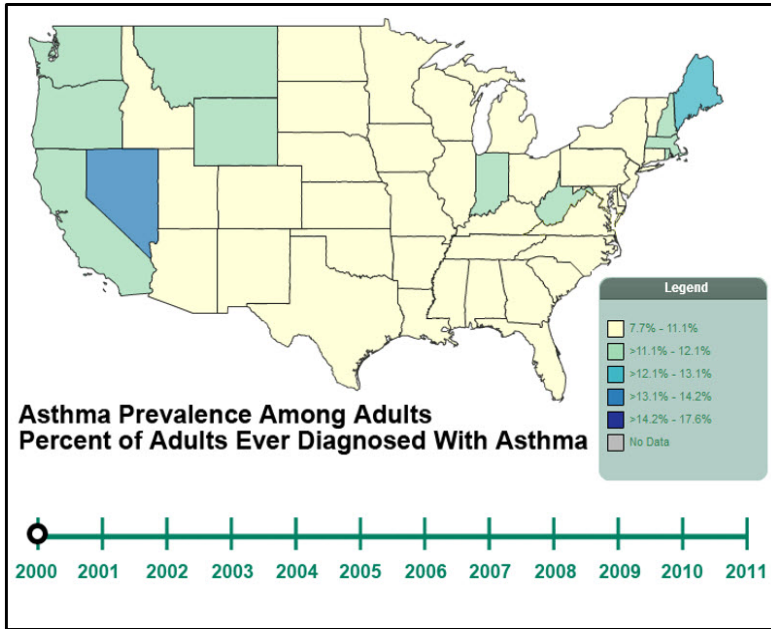
- Over 22 million affected
- Costs ~\$63 billion annually
- Higher prevalence: Black Americans (9.9%), Hispanics of Puerto Rican descent (14.6%), <100% of federal poverty level (10.9%)
- Asthma burden
 - 1.8 million emergency department (ED) visits
 - 439,000 hospitalizations
 - About 9 people die from asthma each day
- Burden can be reduced by controlling asthma

Target Population: Persons at high risk of ED visits or hospitalizations for asthma

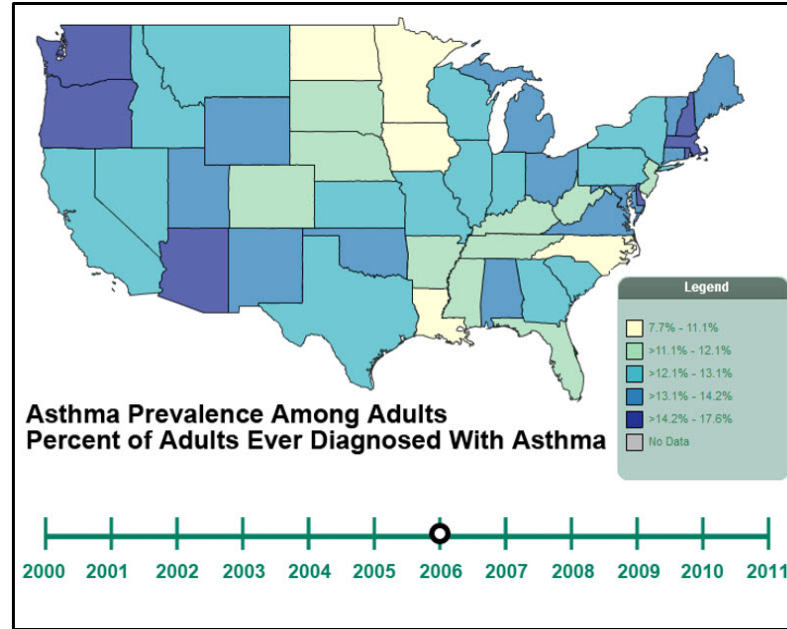


Asthma's Impact on the Nation

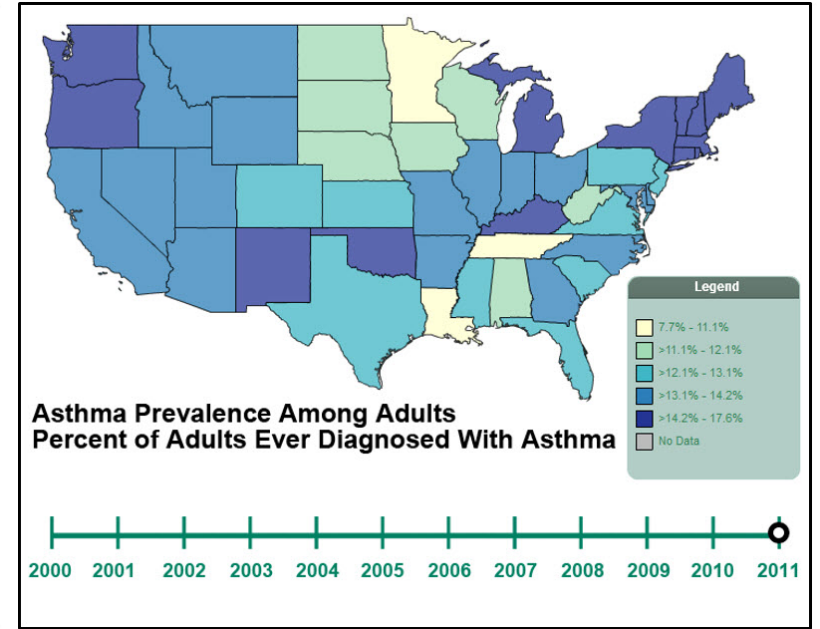
Increasing Prevalence



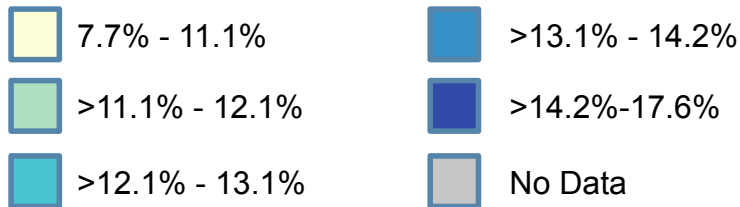
Year 2000



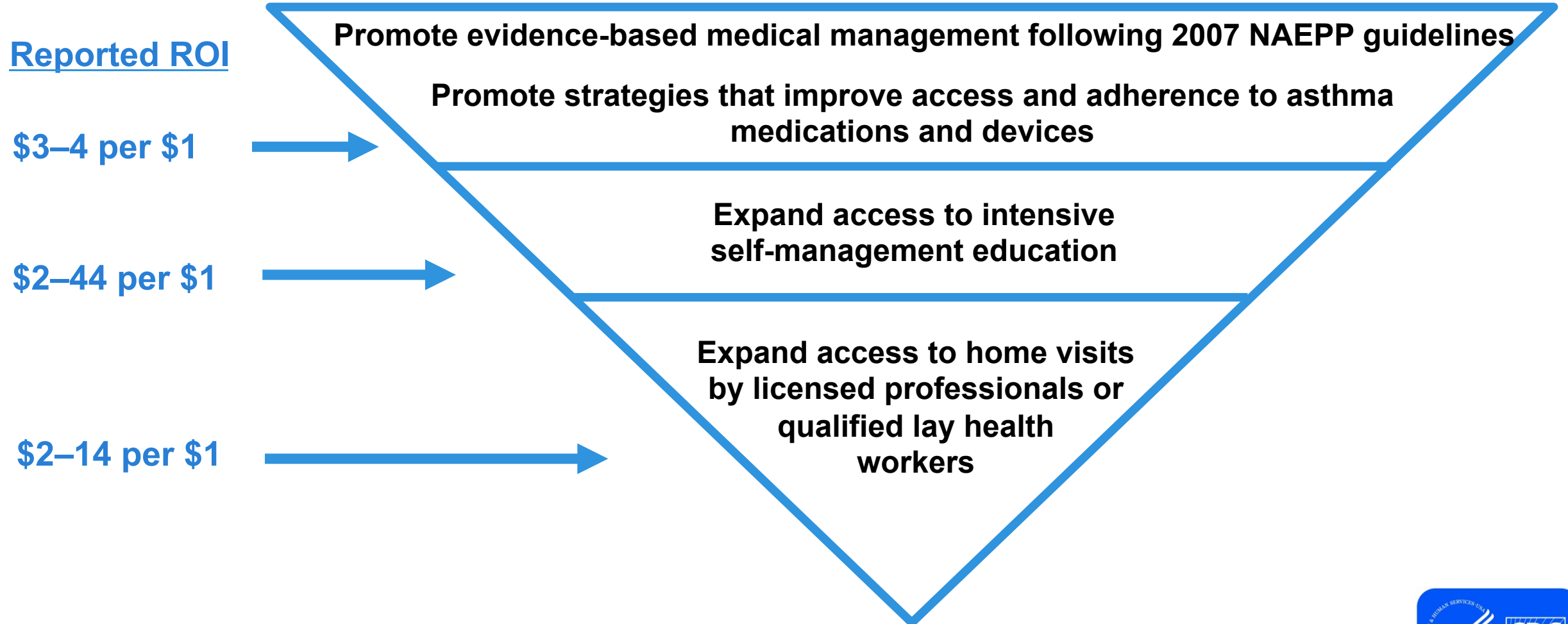
Year 2006



Year 2011



6|18 Asthma Interventions and Evidence



NAEPP, National Asthma Education and Prevention Program; ROI, return on investment

Sources: <http://www.cdc.gov/sixteen/asthma/index.htm>; Taitel MS et al., JACI, 1995; Karnick P et al., J Asthma, 2007; Nurmagambetov TA et al., AJPM, 2011; Meyerson KL, Nurs Clin North Am, 2013



Key Accomplishments

- Established and published evidence base for this approach
- National Governors Association Paper “Health Investments That Pay Off: Strategies for Addressing Asthma in Children”
- CDC’s National Asthma Control Program White Paper “Developing a Business Case for Asthma Services in Your State”

Lessons Learned

- Both cost and quality can be valuable to health plans
- Building on existing partnerships and infrastructure can facilitate progress
- Using health plan analytics can be helpful to identify those at high risk
- Targeting individuals at higher risk can yield a higher ROI



Payer Collaboration Case Study



- First agreement between community asthma coalition and health plan to reimburse home visits at the Medicaid rate for skilled nursing visits (1999)
- Services provided:
 - home-based self-management education
 - home environmental assessments
 - resources to reduce exposures to environmental asthma triggers
- Utilization data showed reductions in asthma-related ED visits and hospitalizations
- Return on investment of \$2.10 for every \$1 of program costs
- As a result of the success of this partnership, the Michigan Department of Health and Human Services convened a payer summit in 2008 where insurers agreed to reimburse asthma self-management education home visits, expanding access to asthma home visits in the state