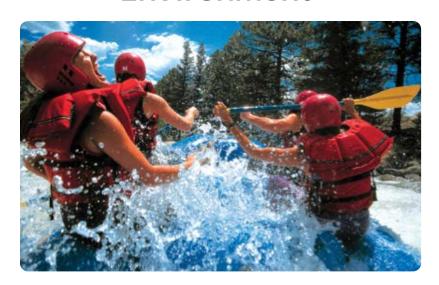
Readiness for Change in Colorado

Dr. Larry Work
Executive Director and Chief Medical Officer
Colorado Department of Public Health and
Environment





What does CDPHE bring to the dialogue on in-home environmental assessments?

Social Determinants of Health

The most significant impacts on health are socioeconomic factors.

Health Equity can be achieved by addressing the social determinants of health and changing the context in which people live, learn, work and play.

Advancing strategies on reimbursements for pediatric asthma assessments and interventions is important to health equity and to reducing costs and suffering due to asthma.

Health Equity

An Explanatory Model for Conceptualizing the Social Determinants of Health

NATIONAL INFLUENCES GOVERNMENT POLICIES U.S. CULTURE & CULTURAL NORMS

LIFE COURSE

SOCIAL DETERMINANTS OF HEALTH

HEALTH FACTORS POPULATION OUTCOMES

PREGNANCY

EARLY CHILDHOOD

CHILDHOOD

ADOLESCENCE

ADULTHOOD

OLDER ADULTS

ECONOMIC OPPORTUNITY	PHYSICAL ENVIRONMENT	SOCIAL FACTORS	
IncomeEmploymentEducationHousing	Built Environment •Recreation •Food •Transportation Environmental quality •Housing •Water •Air Safety	 Participation Social support Leadership Political influence Organization al networks Violence Discrimination 	

HEALTH BEHAVIORS & CONDITIONS	MENTAL HEALTH	ACCESS , UTILIZATION & QUALITY CARE
Nutrition Physical activity Tobacco use Skin Cancer Injury Oral health Sexual health Obesity Cholesterol High Blood Pressure	Mental health status Stress Substance abuse Functional status	Health insurance coverage Received needed care Provider availability Preventive care

MORBIDITY

QUALITY OF LIFE

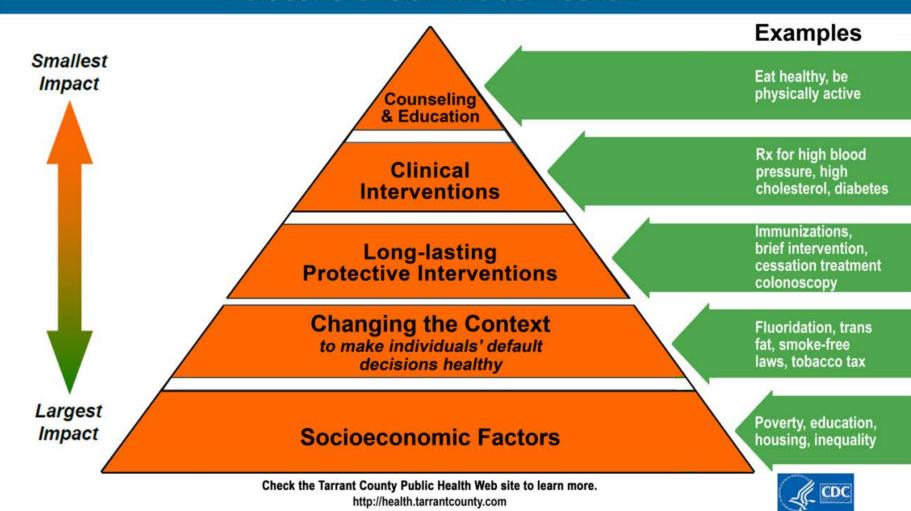
MORTALITY

LIFE EXPECTANCY

Public Health's Role in Addressing the Social Determinants of Health

- •Advocating for and defining public policy to achieve health equity•Data collection, monitoring and surveillance
- Coordinated interagency efforts
- •Creating organizational environments that enable change
- Population based interventions to address health factors
- •Community engagement and capacity building

CDC Health Impact Pyramid Factors that Affect Health



Leadership and Partnership

CDPHE and our local public health partners align with sister agency efforts, including DHS and HCPF to implement the Affordable Care Act:

- provide education,
- promote enrollment, and
- improve population health and service delivery

Expertise and Information

- Models to ensure the entities identified to conduct assessments are skilled, trained and/or certified.
- Effective and efficient use of health data and technology, specifically:
 - Child Health Survey Subset of the Behavioral Risk Factor Surveillance System
 - Hospital Discharge Data
 - Tobacco Attitudes and Behavior Survey
 - Environmental and Public Health Tracking System
 - HIE's, including QHN and CORHIO

Childhood Asthma in Colorado

Alison Grace Bui M.P.H.

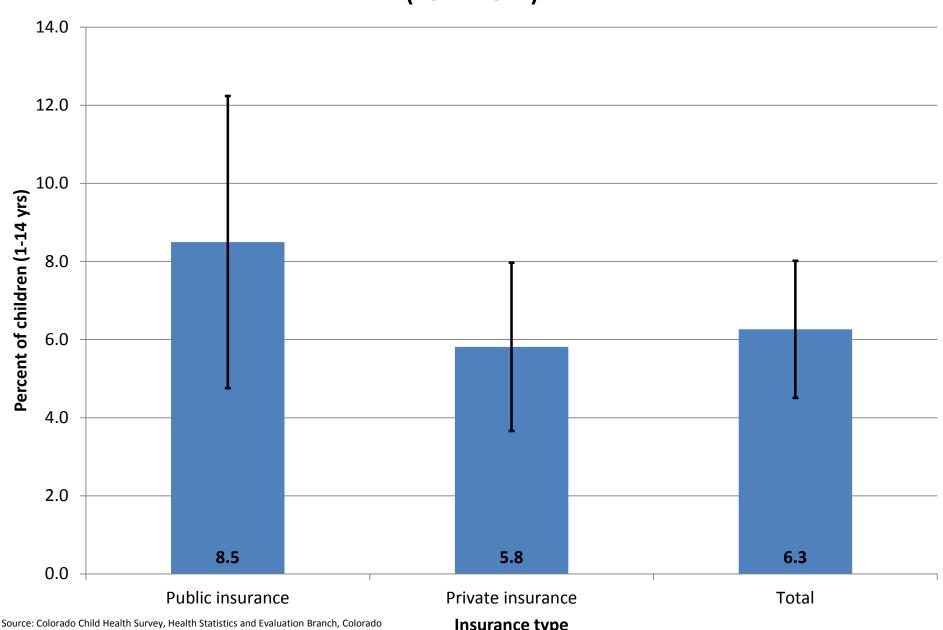


Child Asthma Data

- Colorado Child Health Survey
 - Call back of Adult BRFSS
- Colorado Hospital Association
 - Hospital Discharge Dataset
 - Hospital Emergency Department Dataset



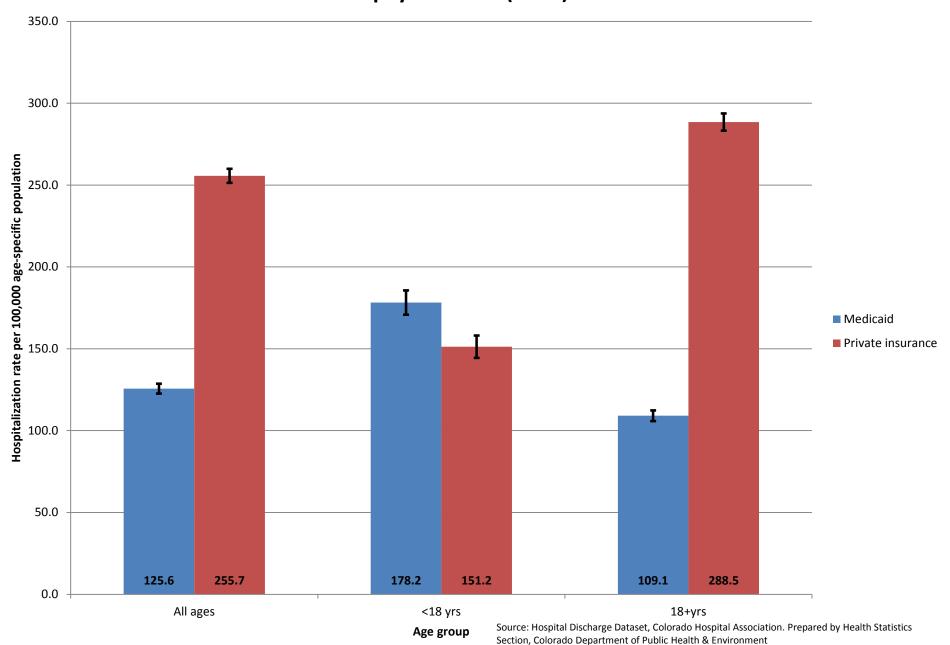
Percent of Colorado children with current asthma by insurance type (2011-2012)



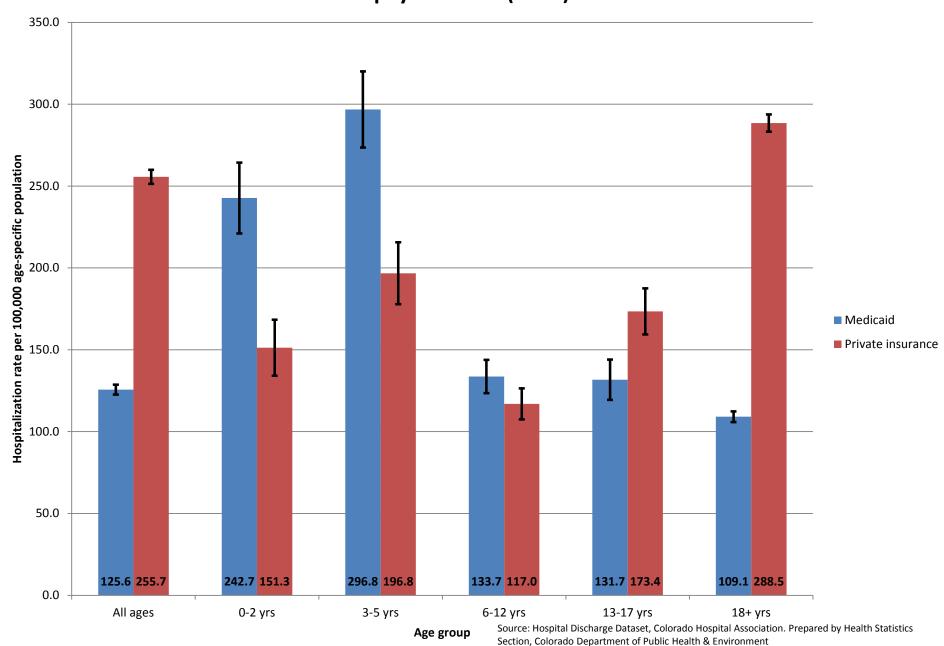
Department of Public Health & Environment

Insurance type

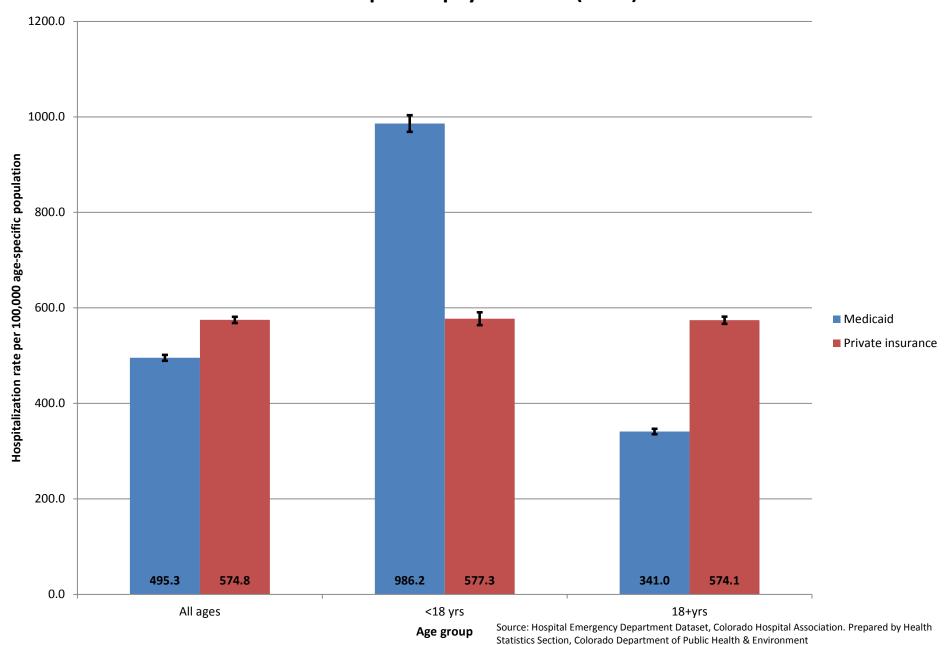
Asthma-related inpatient hospitalization rates by age group and expected payer source (2012)



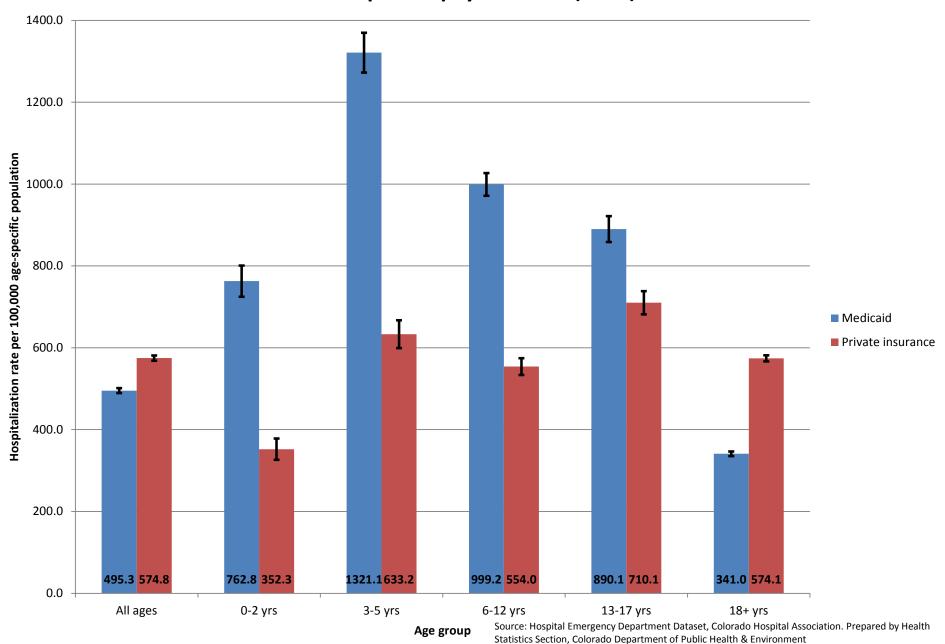
Asthma-related inpatient hospitalization rates by age group and expected payer source (2012)



Asthma-related emergency department hospitalization rates by age group and expected payer source (2012)

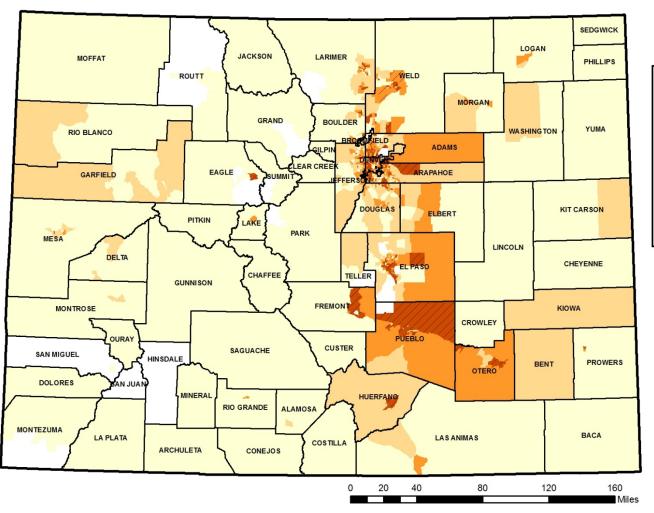


Asthma-related emergency department hospitalization rates by age group and expected payer source (2012)



Asthma Hospital Discharges and Inpatient Hospitalizations, Age-Adjusted Rate by Census Tract, 2007-2011





Age-Adjusted Rate of Hospitalizations per 100,000 persons

Lowest Quartile (9.8 - 428.1)

Second Quartile (428.2 - 625.0)

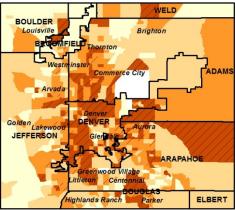
Third Quartile (625.1 - 831.5)

Highest Quartile (831.6 - 3503.2)

State Average 637.6 (95% C.I.: 634.4 - 640.8)

Statistically Higher than Average

METRO DENVER



Event/numerator data:

Hospital Discharge Dataset, Colorado Hospital Association.

Population/denominator data:

2007-2011 Five-Year Estimate, American Community Survey, US Census