

# **Welcome Remarks**

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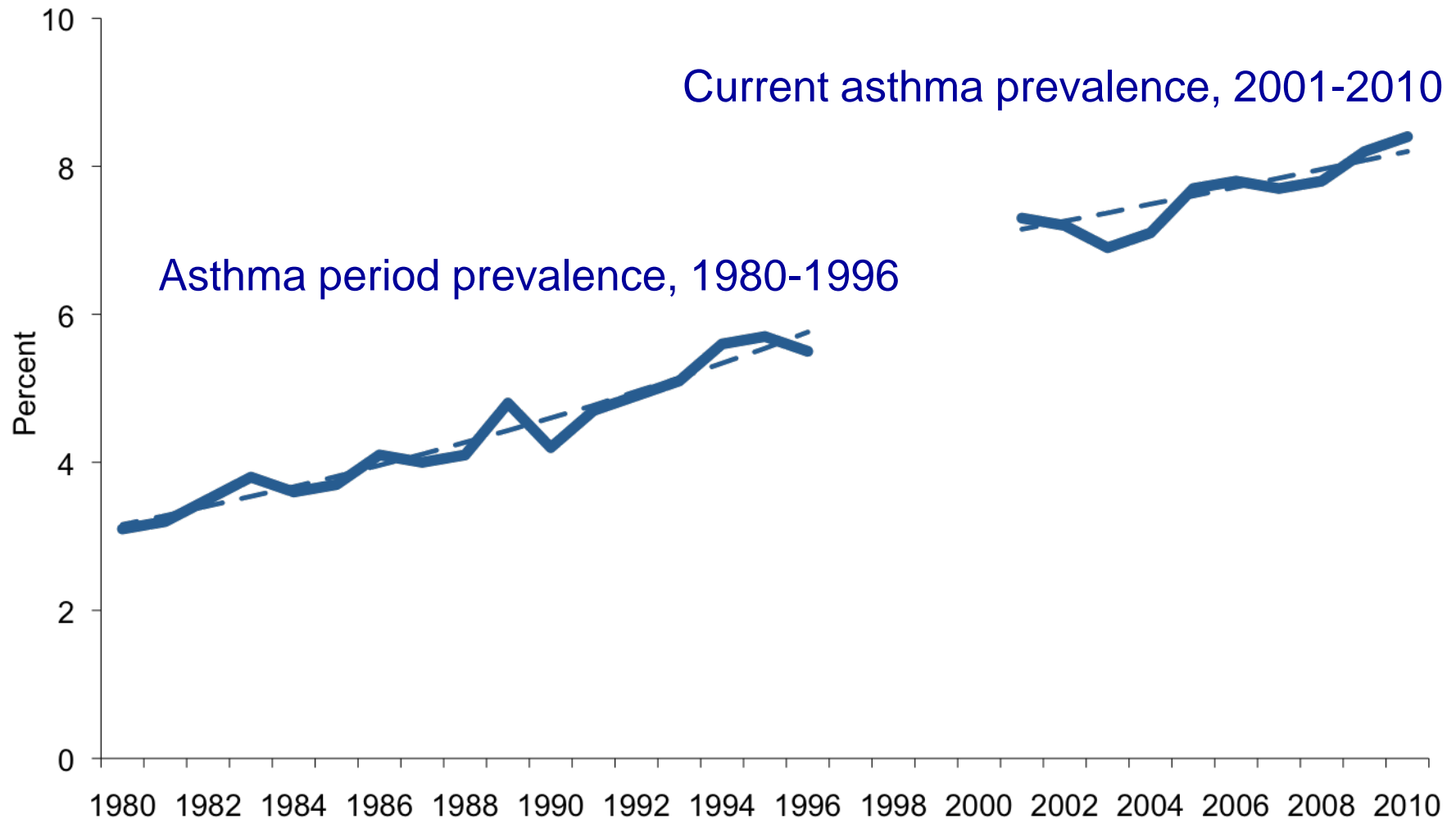
**Children's Hospital Colorado;**

**Professor of Pediatrics**

**University of Colorado Denver**

**School of Medicine**

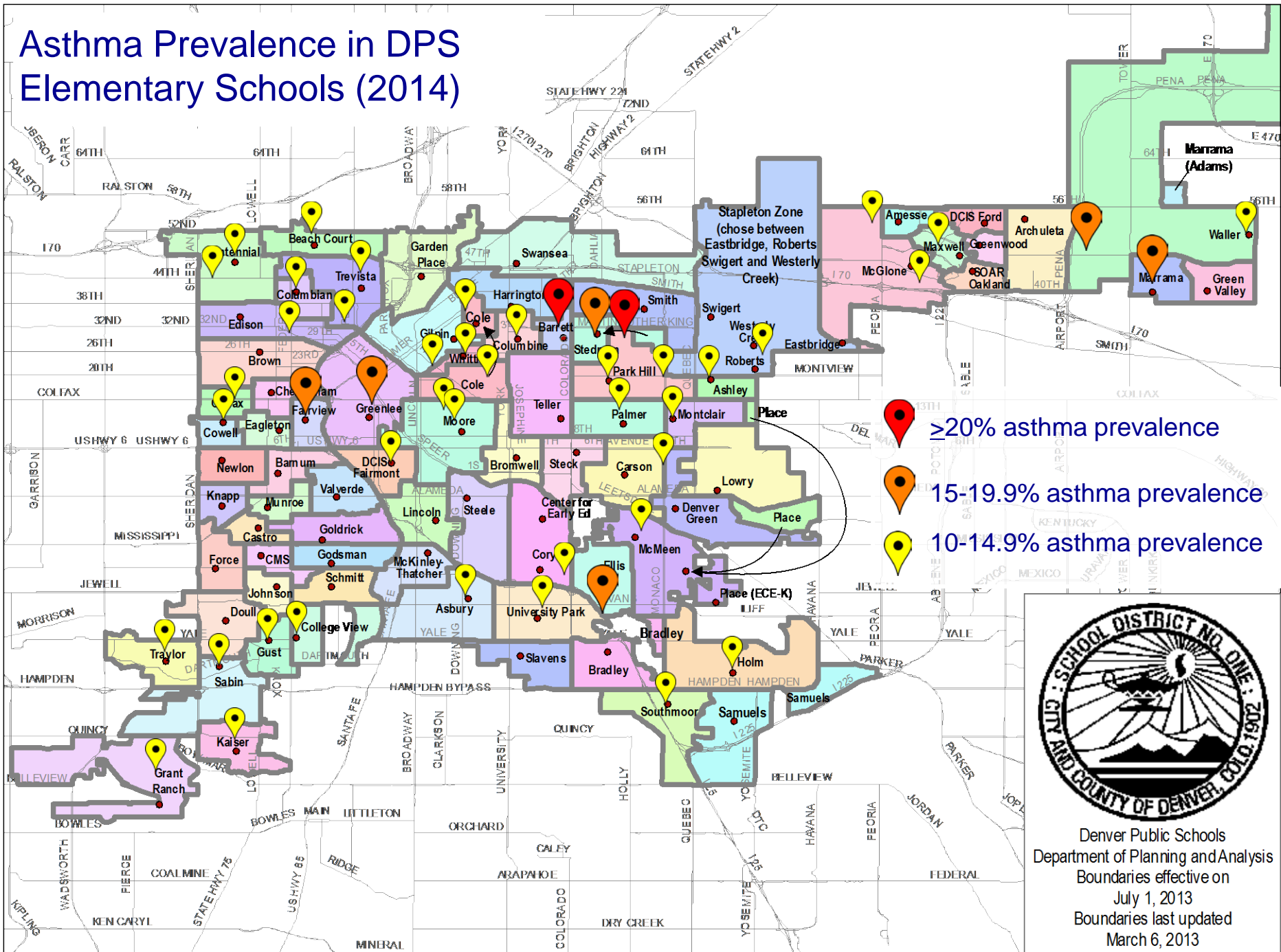
# Asthma period prevalence and current asthma prevalence: United States, 1980-2010



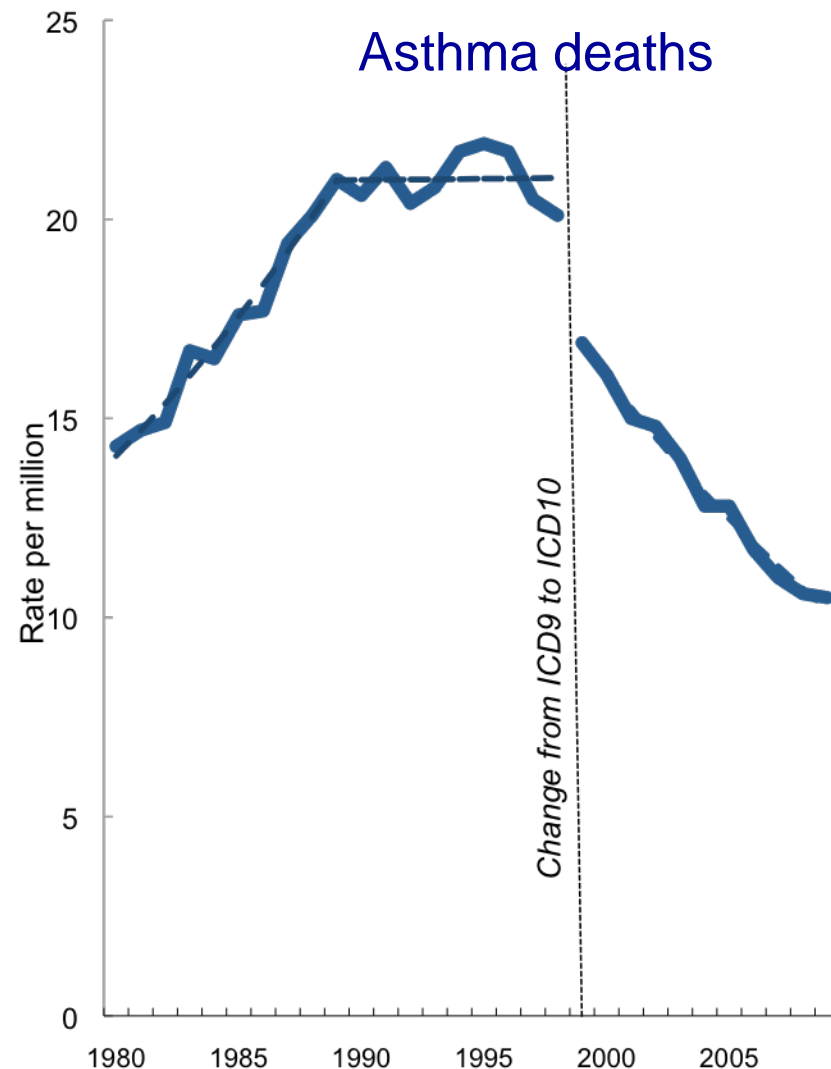
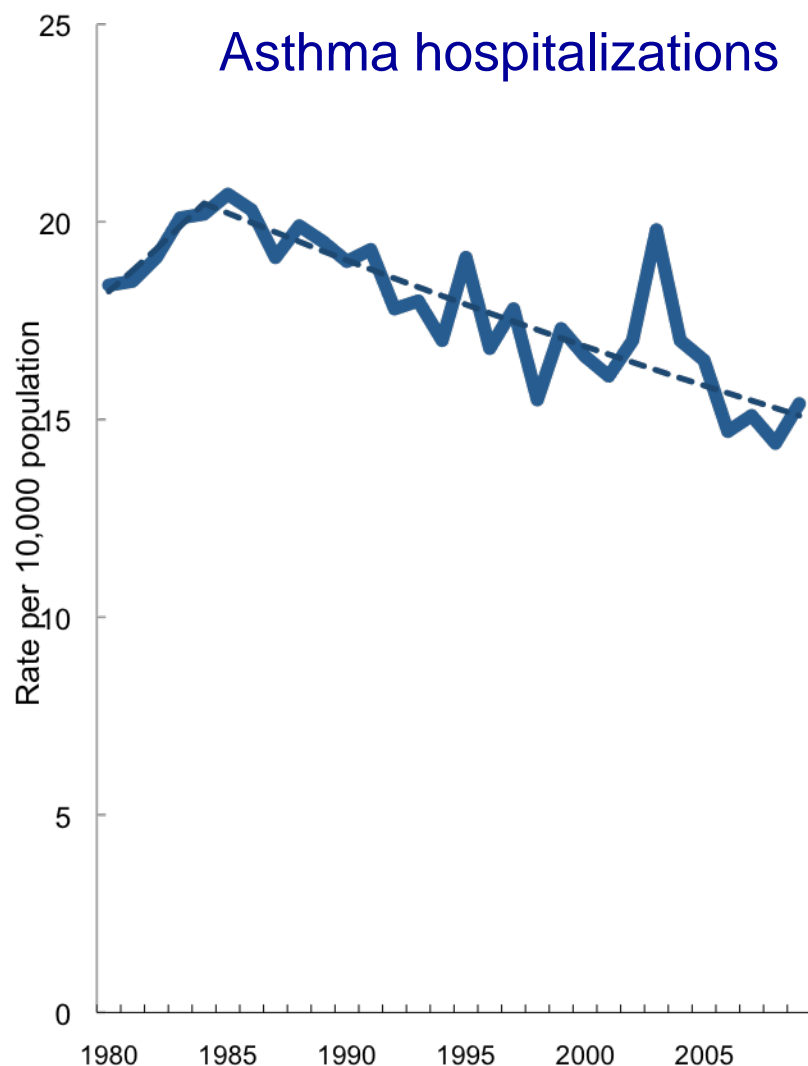
SOURCE: CDC/NCHS, National Health Interview Survey

Notes: Percentages are age adjusted to the 2000 standard population.

# Asthma Prevalence in DPS Elementary Schools (2014)



# Asthma hospitalization rates per 10,000 population and asthma death rates per million population: United States, 1980-2009

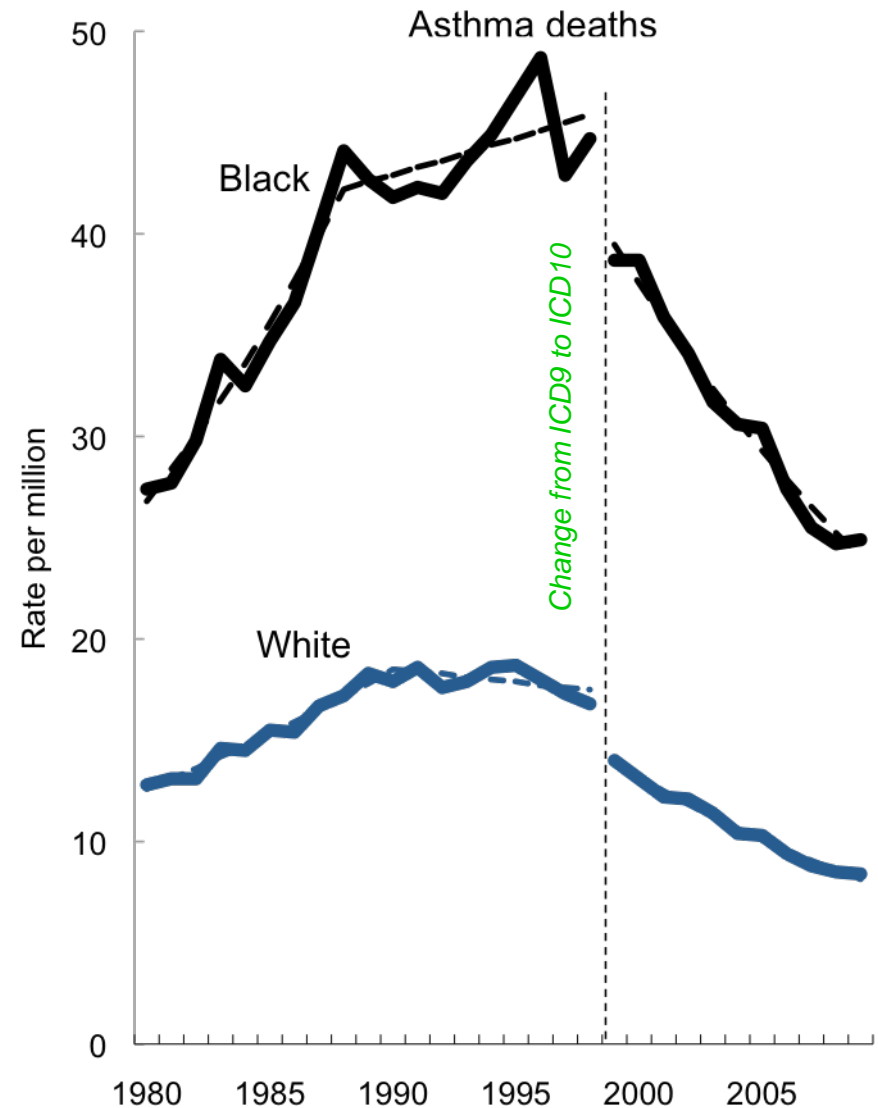
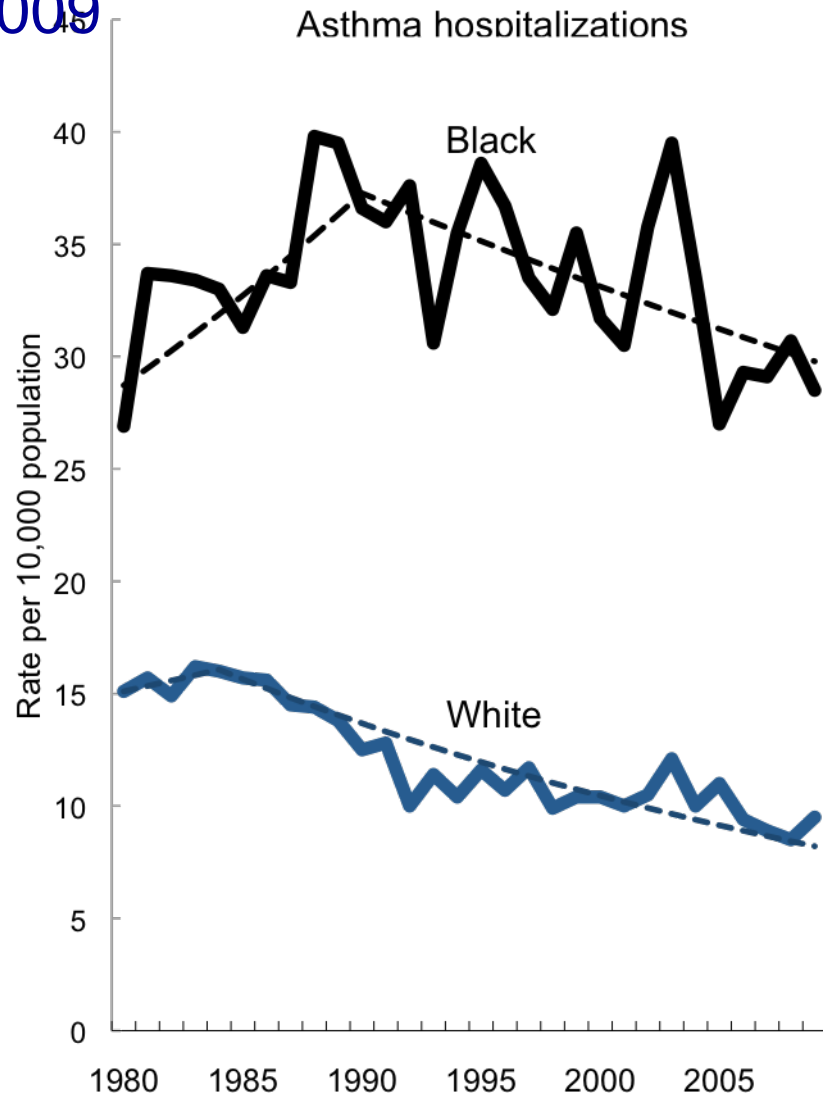


SOURCE: CDC/NCHS, National Hospital Discharge Survey and National Vital Statistics System

Note: Population-based rates are age-adjusted to the 2000 standard population.

Dotted lines show the modeled trend estimated by Joinpoint. Inflection points represent a change in the annual percent change.

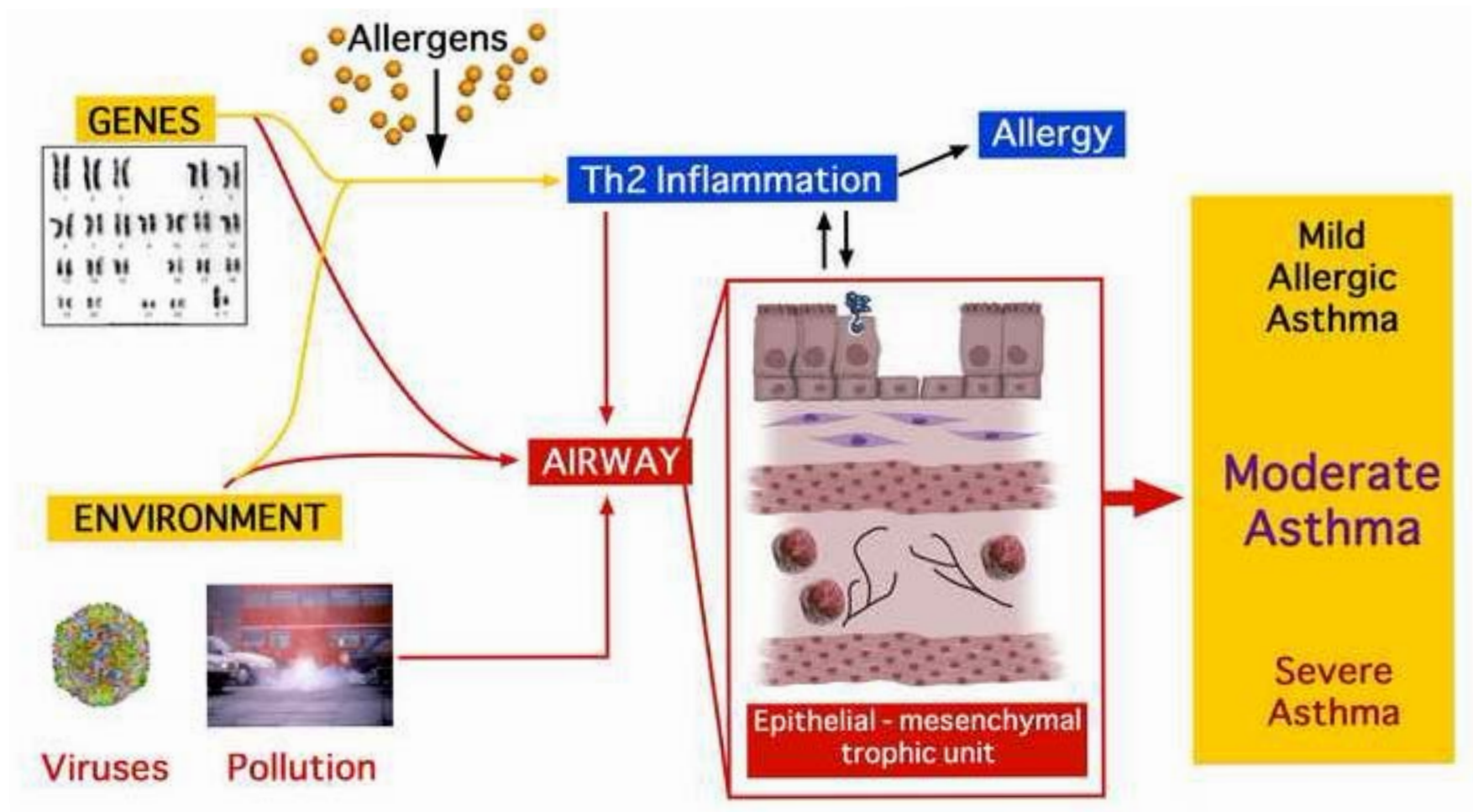
# Asthma hospitalization rates per 10,000 population and asthma death rates per million population by race: United States, 1980-2009



SOURCE: CDC/NCHS, National Hospital Discharge Survey and National Vital Statistics System

Note: Population-based are age-adjusted to the 2000 standard population.

Dotted lines show the modeled trend estimated by Joinpoint. Inflection points represent a change in the annual percent change.



Source: Holgate. "Epithelium dysfunction in asthma."  
J Allergy Clin Immunol 2007; 120(6): 1233-1244.

# ***Primary Goal of Therapy: Achieving and Maintaining Asthma Control***

- Primary goal of asthma therapy is to enable a patient to ***achieve and maintain control*** over their asthma
  - ***Eliminate impairments*** including symptoms, functional limitations, poor quality of life, and other manifestations of asthma
  - ***Reduce risk*** of exacerbations, ED visits, and hospitalizations
- Treatment goals are identical for all levels of asthma severity



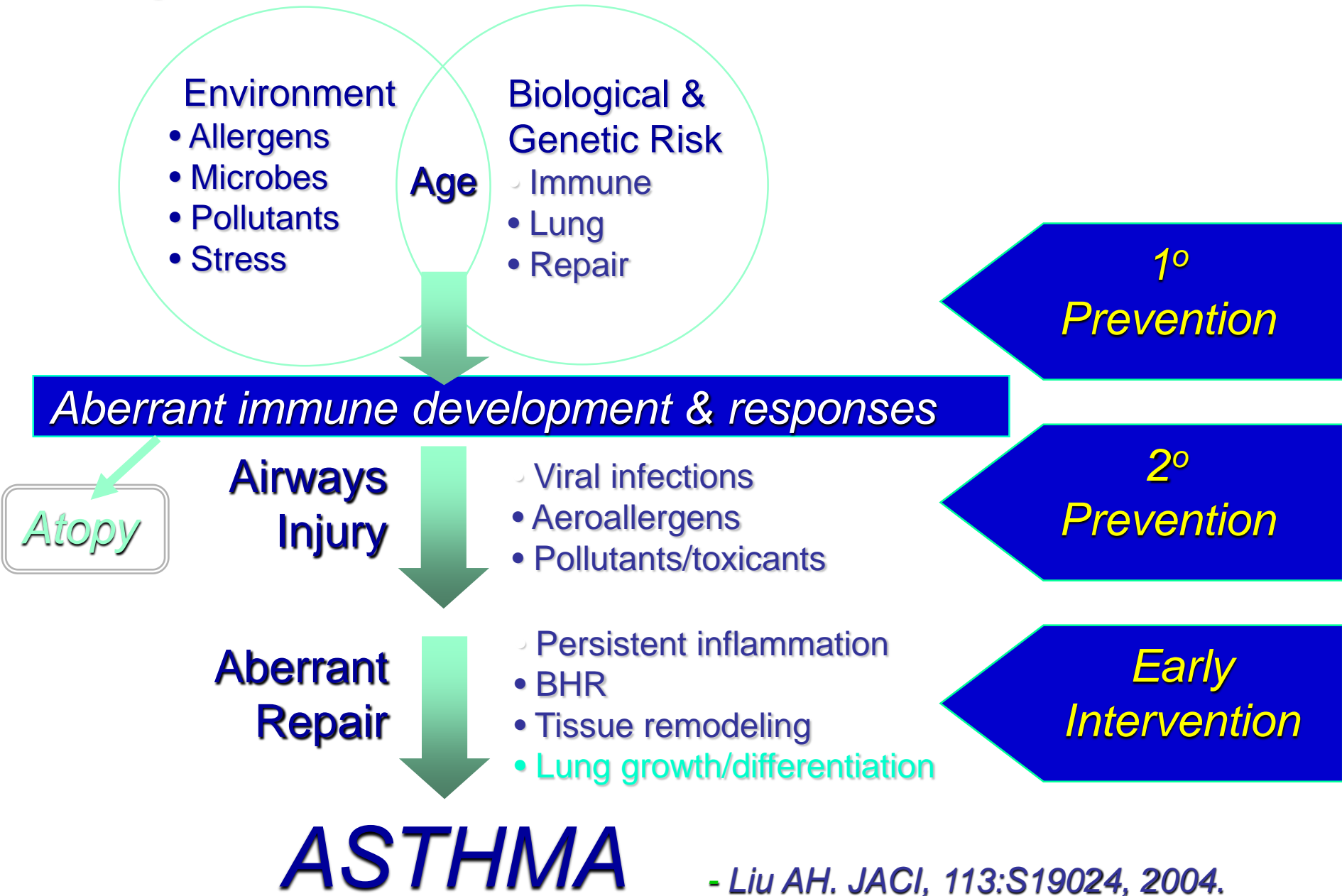
# Future Directions for Pediatric Asthma

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- **Prevention** – exacerbations, progression and onset of disease.
- **Communication** – patients, families, providers and schools.
- **Utilization of large data bases** to guide treatment strategies.



# Early Intervention for Asthma Prevention





# BIG DATA

**A REVOLUTION  
THAT WILL TRANSFORM HOW  
WE LIVE, WORK, AND THINK**

**VIKTOR MAYER-SCHÖNBERGER  
KENNETH CUKIER**

# Environmental Control

## Clinical approach

- Assessment
- Identification of sensitivity
- Education
- Monitoring

# Environmental Control

## Challenges

- Coordination of home evaluation
- Standardization of testing procedures
- Remediation
- Follow-up
- Cost of procedures

# THE FAMILY CIRCUS<sup>®</sup>





