

ASTHMA MANAGEMENT FOR OLDER ADULTS

Medical Grand Rounds
Baystate Health
February 18, 2015



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Director NEW READY Asthma Home Visiting Program and the 4C care coordination program

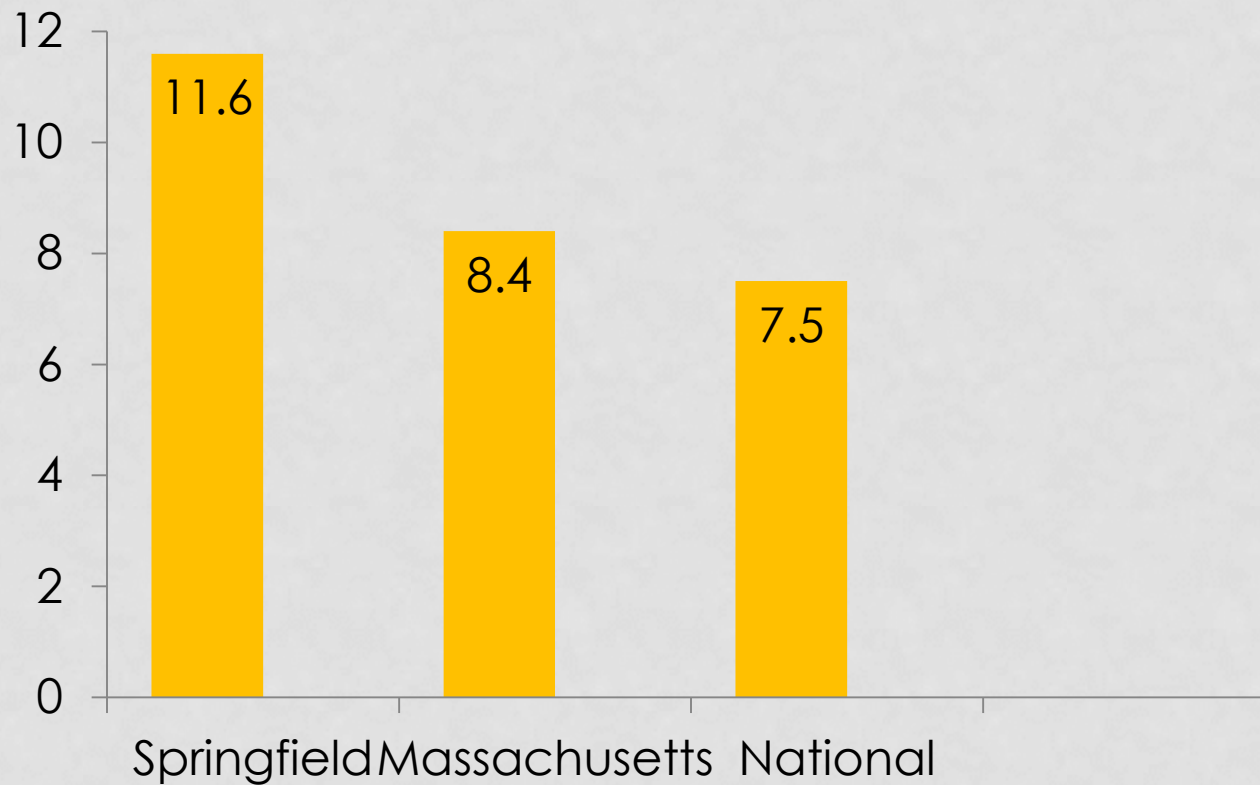
Chair, Pioneer Valley Asthma Coalition

PIONEER VALLEY ASTHMA COALITION

*Improving the quality of life for individuals,
families, and communities affected by asthma
in the Pioneer Valley* □

- Activities
 - Reducing Environmental Triggers for Older Adults with Asthma
 - Healthy Homes
 - Healthy Schools

ASTHMA PREVALENCE IN OLDER ADULTS



DISPARITIES

- *Latinos 65 or older in Springfield are 8.8x more likely to be hospitalized for asthma than Whites*

PVAC - REDUCING TRIGGERS FOR OLDER ADULTS WITH ASTHMA

- Asthma Home Visiting Program
 - 3 home visits and follow up call
 - Home assessment
 - Supplies (HEPA vacuum, mattress/pillow covers)
 - Eligibility
 - Commonwealth Care Alliance-Senior Care Option
 - ER Visit or hospitalization within the last year
 - Diagnosis of asthma/65 or older
- Presentations for Older Adults & their Families
- Grand Rounds

Funded by Tufts Health Plan Foundation

READY STUDY SPECIFICS

- Massachusetts Department of Public Health – lead agency for study
- Two intervention sites: Boston Medical Center and Baystate Medical Center
- Principal Investigators
 - Lauren Smith, MD, MPH
 - Cheryl Bartlett, RN, MDPH
 - Jean Zotter, JD, MDPH
 - Megan Sandel, MD, MPH, Boston Medical Center
 - Matthew Sadof, MD, Baystate Medical Center
- Funding:
 - American Recovery and Reinvestment Act (ARRA) NIEHS R01 grant (#5R01ES017407-02)
 - HUD Healthy Homes Technical Studies (#MALHH0227-10)

KEY MEASURES

- Urgent care use
- Number of symptom days
- Use of rescue medication
- Number of exacerbations requiring oral steroids
- Pediatric asthma parent/caregiver quality of life scores
 - developed by Elizabeth Juniper
- Environmental measures
- Competing Priorities and Parental Expectations for Control

PRELIMINARY DEMOGRAPHICS

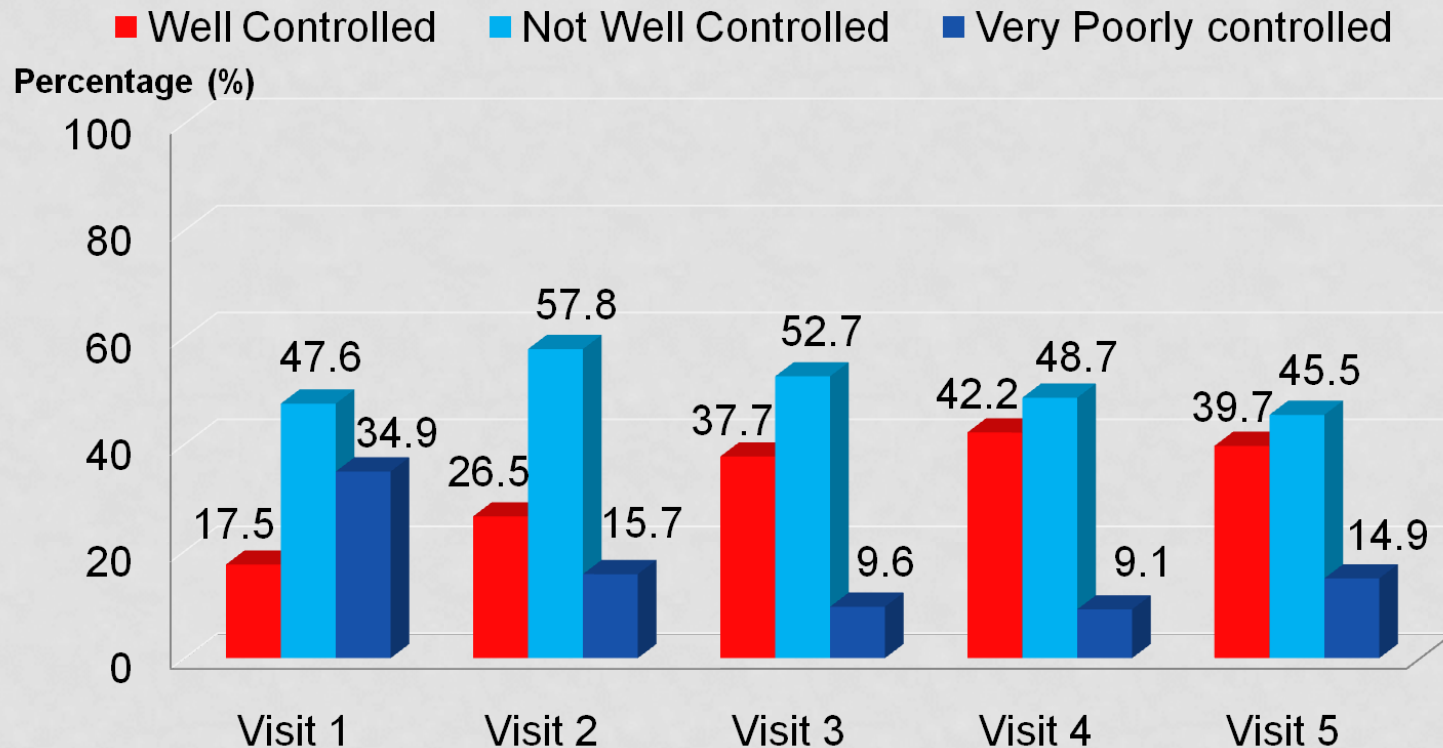
- N = 231
- Average age: 6.2 years
- Gender: 57% male
- Insurer
 - 93.1% MassHealth
 - 6.1% Private
- Race/Ethnicity
 - 48.5% Black, Non-Hispanic
 - 48.9% Hispanic
 - 2.6% Other
 - *includes White and Asian, Non-Hispanic

PRELIMINARY BASELINE CONTROL

- Asthma Control at Visit 1 based on EPR3 - National Asthma Guidelines (N = 231)
 - 17.3% Well Controlled
 - 47.2% Not Well Controlled
 - 34.6% Very Poorly Controlled

PRELIMINARY RESULTS

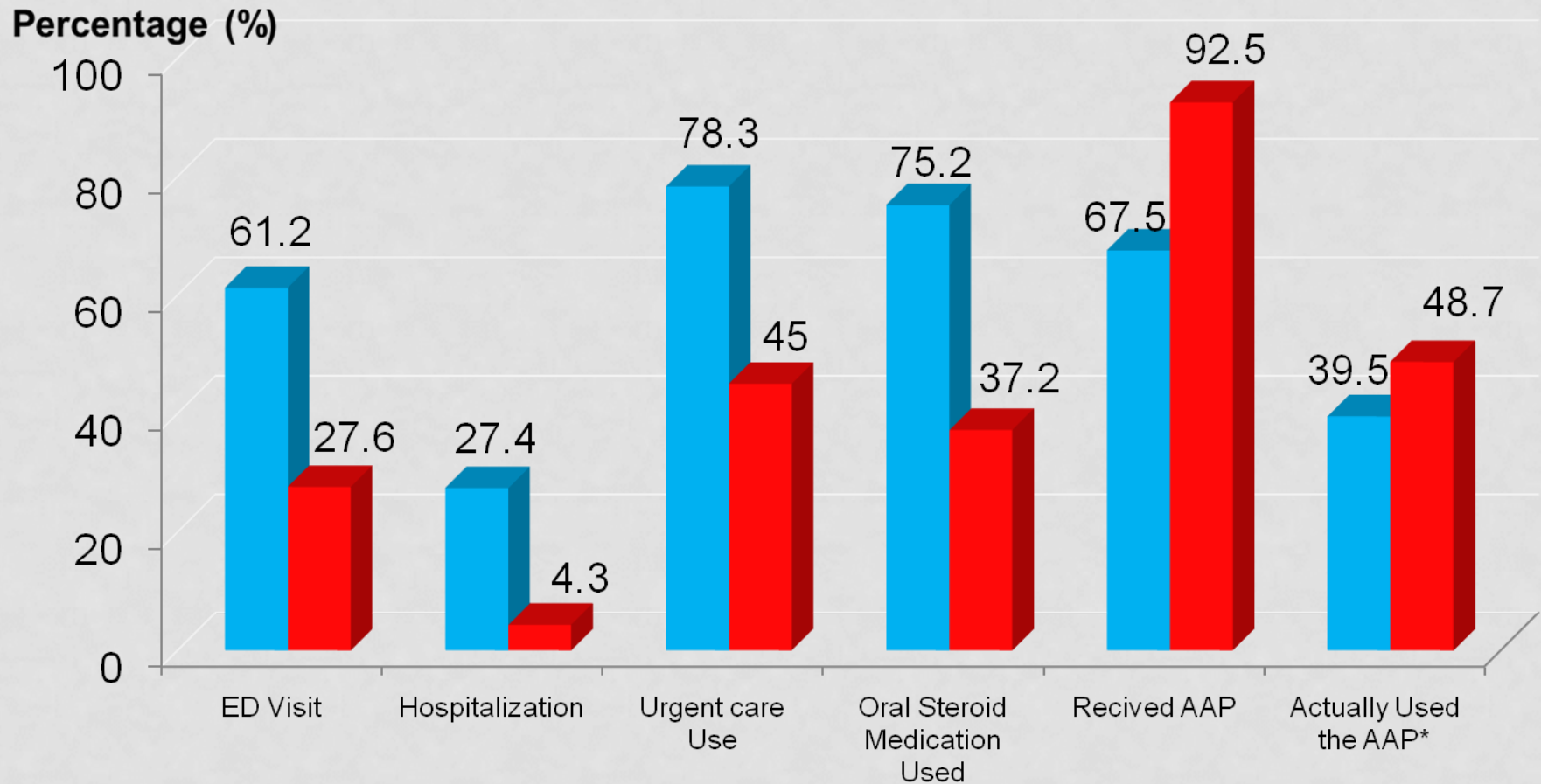
– ASTHMA CONTROL TREND



PRELIMINARY RESULTS

- ASTHMA CONTROL PRE VS POST (N = 119)

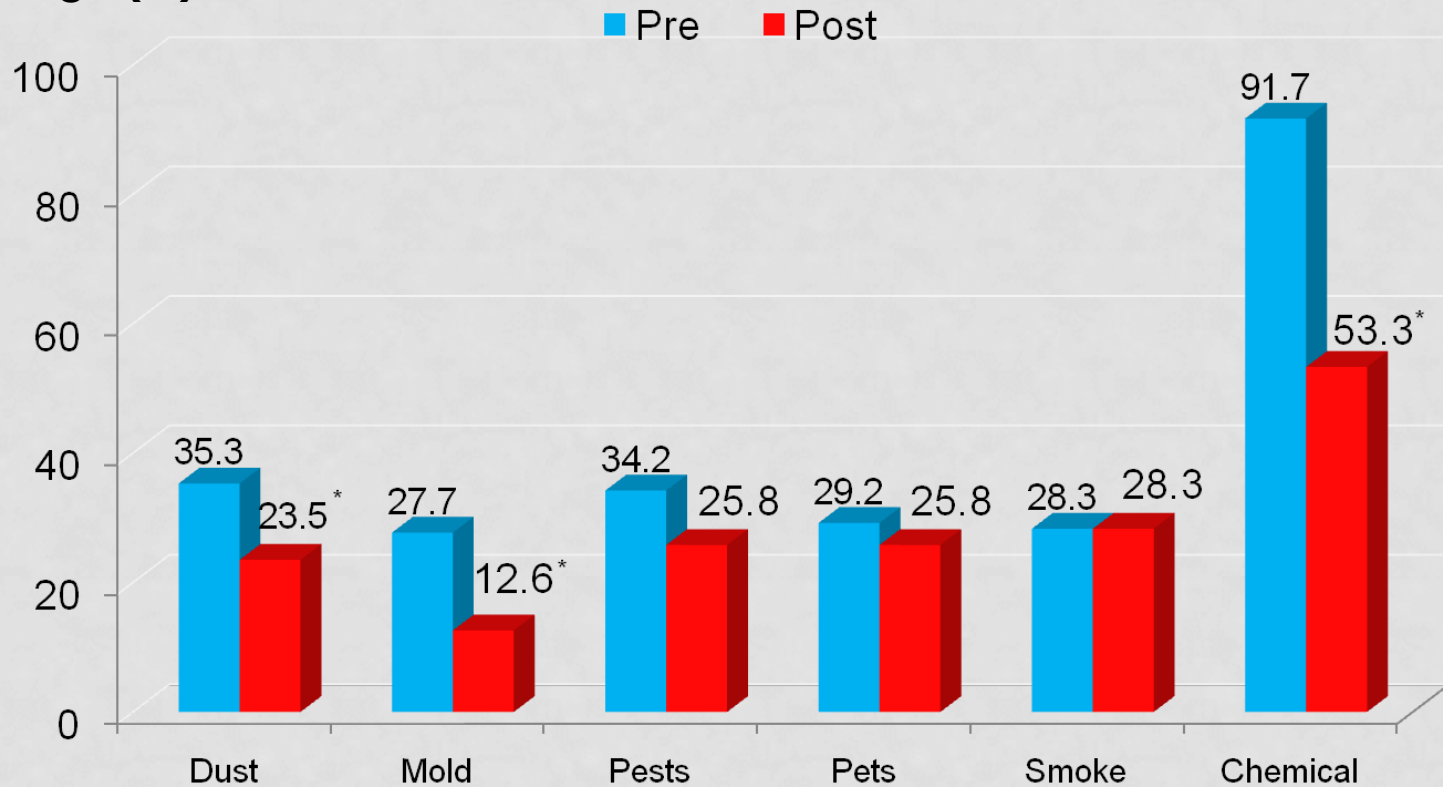
■ Pre ■ Post

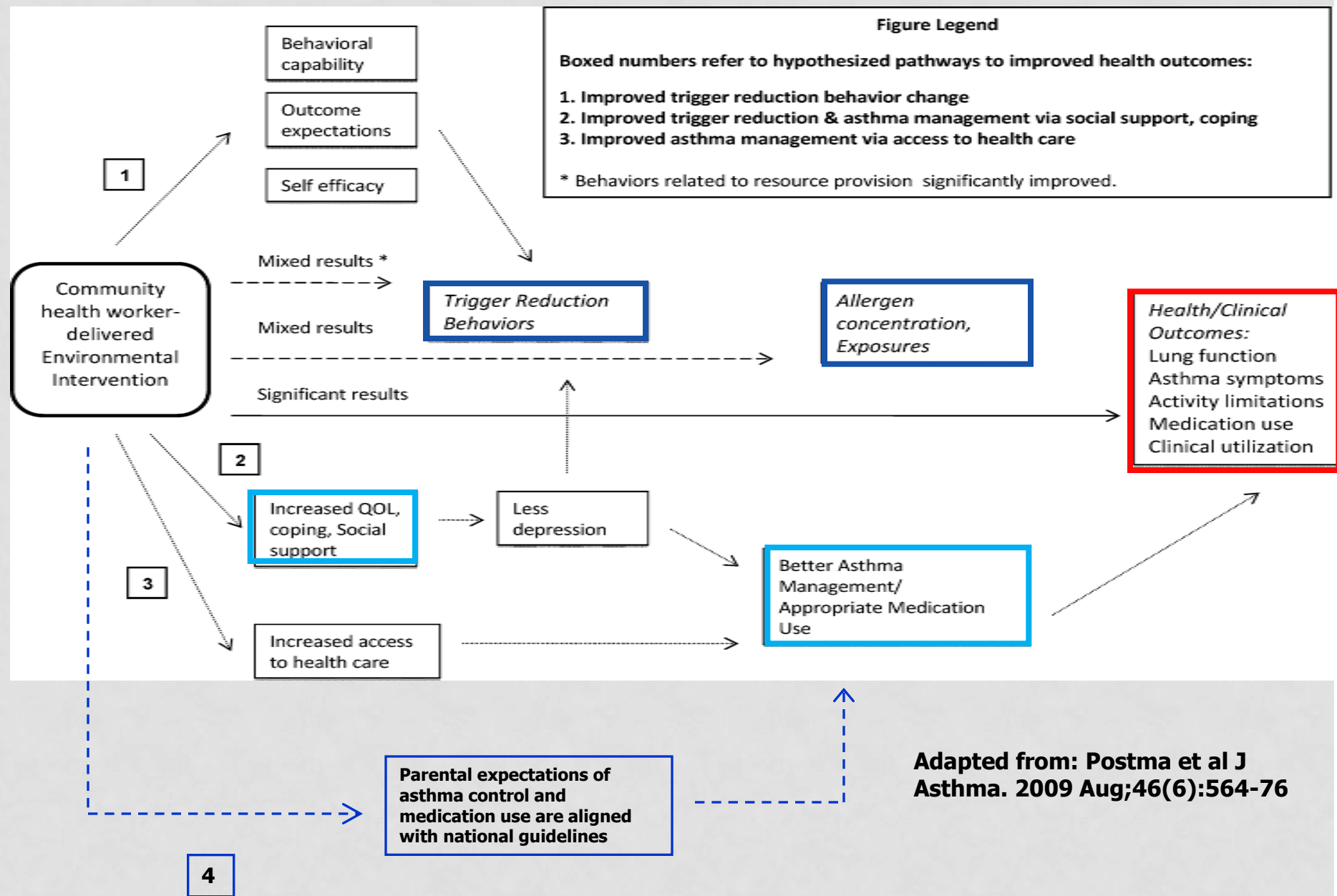


ENVIRONMENTAL FACTORS

- PRE VS POST (N = 119)

Percentage (%)





Adapted from: Postma et al J Asthma. 2009 Aug;46(6):564-76