FLORIDA ASTHMA PROGRAM
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Bureau of Chronic Disease Prevention
Overview

- National Asthma Control Program
- Florida Asthma Program
- Health Equity
- Burden of Asthma
National Asthma Control Program
Established in 1999 by Centers for Disease Control and Prevention (CDC)

Currently funds health departments in 24 states and Puerto Rico to:

- Improve surveillance of asthma
- Train health professionals
- Educate individuals with asthma and their families
- Explain asthma to the public

Facilitates sharing of best practices among states
Florida Asthma Program
Florida Asthma Program

Infrastructure Strategies
- Leadership, Strategic Partnerships, Strategic Communications, Surveillance, and Evaluation
  - Transforming the working relationships between public health and health care organizations

Service Strategies
- Expand access to comprehensive asthma control services through home-based and school-based strategies
  - Self-management Education, Linkages to Care, Education for Caregivers, Policies Supportive of Asthma Control

Health Systems Strategies
- Coordinate with health care organizations to improve coverage, delivery, and use of clinical and other services
  - Quality improvement, Team-based Care, Coverage and Reimbursement
  - System-level Linkages
Florida Asthma Program

Infrastructure Strategies
- Supporting the Florida Asthma Coalition
- Communication campaigns
- Ongoing surveillance and evaluation

Service Strategies
- Asthma Home Visiting Program
- Asthma-Friendly Schools

Health Systems Strategies
- Medicaid Learning and Action Network
- Asthma-Friendly Hospitals
Health Equity
Health equity: Health equity is attainment of the highest level of health for all people.

Achieving health equity requires valuing everyone equally with focused and ongoing societal efforts to address avoidable inequalities, historical and contemporary injustices, and the elimination of health and health care disparities.
Social determinants of health are conditions in the environments in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.
Health Equity – A Statewide Priority
Health Equity – A Statewide Priority

State Health Improvement Plan (SHIP), 2017-2021:

- Goal 1: Establish **shared understanding across all sectors**, concerning information and issues surrounding Health Equity (HE), Cultural Competency/Sensitivity, and how SDOH influence the health of Florida’s residents and communities.

- Goal 2: Strengthen the capacity of state and local agencies and other organizations to **work collaboratively with communities** to **reduce disparities** in SDOH and advance HE.

- Goal 3: Strengthen the capacity of state and local agencies and other organizations to **work collaboratively with communities** and each other to support the specific needs of Florida’s **most vulnerable populations**.
Burden of Asthma
Average annual medical costs of asthma were nearly $1,000 per child in 2012.

https://www.cdc.gov/vitalsigns/childhood-asthma/index.html
Asthma medication use among children with asthma in 2013.

- 25% Not used regularly as prescribed
- 30% Used regularly as prescribed
- 55% Control Medication Use
- 68% Rescue Medication Use

https://www.cdc.gov/vitalsigns/childhood-asthma/index.html
Healthcare provider asthma education of children in 2013.

- Given advice on environmental control: 46%
- Given an action plan: 51%
- Taught to recognize early signs and symptoms of an asthma attack: 76%
- Taught how to best respond to an asthma attack: 80%


https://www.cdc.gov/vitalsigns/childhood-asthma/index.html
Florida Asthma Surveillance

Goals
- Compile data, conduct analyses, and communicate findings
- Inform program activities and support key asthma stakeholders
- Conduct ongoing evaluation of asthma measures, data products, dissemination methods, data uses, and outcomes

Many sources of asthma-related data
- Each source has its strengths and limitations
- Collectively these sources provide a multidimensional view of asthma
Florida Youth Lifetime Asthma Prevalence, 2007-2017

Source: Youth Risk Behavior Survey – High School Students
Florida Youth Lifetime and Current Asthma Prevalence by Gender, 2017

Source: Florida Youth Tobacco Survey – Middle and High School Students
Florida Youth Lifetime and Current Asthma Prevalence by Gender by Race/Ethnicity, 2017

Source: Florida Youth Tobacco Survey – Middle and High School Students
Capture numerous asthma-related measures and indicators
- Prevalence; Health status and quality of life; Risk and risk behaviors; Care, awareness, and management; and, Barriers to care

Weighted to be representative of the population

Examples of core population-based surveys
- Behavioral Risk Factor Surveillance System (BRFSS)
- Florida Youth Tobacco Survey (FYTS)
- Youth Risk Behavior Survey (YRBS)
Asthma Prevalence

- **Lifetime Asthma**
  Has a doctor, nurse, or other health care professional ever told you that you have asthma?

- **Current Asthma**
  Do you still have asthma?
Florida Adult Asthma Prevalence, 2011-2016

Source: Behavioral Risk Factor Surveillance System
Florida Adult Lifetime and Current Asthma Prevalence by Gender, 2016

Source: Behavioral Risk Factor Surveillance System
Florida Adult Current Asthma Prevalence, by Gender by Race/Ethnicity, 2016

Source: Behavioral Risk Factor Surveillance System

NH = Non-Hispanic
Florida Adult Current Asthma Prevalence by Age Group, 2016

- 18 to 44: 6.6%
- 45 to 64: 7.6%
- 65 and Older: 5.9%

Source: Behavioral Risk Factor Surveillance System
Florida Adult Current Asthma Prevalence by Education and Income, 2016

Source: Behavioral Risk Factor Surveillance System
Emergency department (ED) visit and hospital discharge data
Collected by Florida’s Agency for Health Care Administration (AHCA)
Detailed records for each visit or admission
  - Patient demographics
  - Diagnoses and procedures
  - Charges and payer information
Primary diagnosis of asthma among in-state residents
  - Transition from ICD-9 to ICD-10, effective October 1, 2015
  - Asthma code now J45 (previously 493)
  - Chronic obstructive asthma removed from J45
  - Decreases in ED visits and hospitalizations occurring in 2015 and later may be a result of coding changes
ED Visits & Median Charges, 2011-2016

- Median Charges:
  - 17% increase from $2,500 to $3,000
  - 53% increase from $2,000 to $3,000

- Number of Asthma ED visits:
  - Data Source: Agency for Health Care Administration (AHCA)

*Transition from ICD-9 to ICD-10*
Hospitalizations & Median Charges, 2011-2016

Number of Asthma Hospitalizations

- Hospitalizations
- Median Charges


*Transition from ICD-9 to ICD-10

Data Source: Agency for Health Care Administration (AHCA)
ED Visits & Hospitalizations by Payer Type, 2016

Data Source: Agency for Health Care Administration (AHCA)
### Age-adjusted ED Visit Rates, 2016

- **Gender**
  - Female: 59.0
  - Male: 53.5

- **Race/Ethnicity**
  - White, NH: 36.3
  - Black, NH: 120.2
  - Hispanic: 47.3

- **Total**
  - 56.5

**Rates per 10,000 population**

*Data Source: Agency for Health Care Administration (AHCA)*

*NH = Non-Hispanic*
Age-adjusted Hospitalization Rates, 2016

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<th>Total Race/Ethnicity</th>
<th>Female</th>
<th>Male</th>
<th>White, NH</th>
<th>Black, NH</th>
<th>Hispanic</th>
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Rates per 10,000 population

Data Source: Agency for Health Care Administration (AHCA)  
NH = Non-Hispanic
Age-specific ED Visit Rates, 2016

Data Source: Agency for Health Care Administration (AHCA)
Age-specific ED Visit Rates
5-64 Year Age Group, 2016

Data Source: Agency for Health Care Administration (AHCA)
Age-specific Hospitalization Rates, 2016

- 0-4 years: 23.2 rates per 10,000 population
- 5-64 years: 6.8 & 8.7 rates per 10,000 population
- 65+ years: 6.2 rates per 10,000 population

Data Source: Agency for Health Care Administration (AHCA)
Age-specific Hospitalization Rates
5-64 Year Age Group, 2016

Healthy People 2020 Target

Rates per 10,000 population

Data Source: Agency for Health Care Administration (AHCA)
## Florida Asthma Death Counts and Rates by Age Group, Vital Statistics 2016

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Count</th>
<th>Rate per 1,000,000</th>
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<tbody>
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<td>0-17</td>
<td>8</td>
<td>2</td>
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<td>18 – 34</td>
<td>22</td>
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<td>35 – 49</td>
<td>24</td>
<td>6</td>
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<td>50 – 64</td>
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<td>65 – 79</td>
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<td>80+</td>
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<tr>
<td>Total</td>
<td>185</td>
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**Data Source:** Florida Department of Health, Office of Vital Statistics
Florida Asthma Measures
2012-2014

- Trend data for 32 asthma measures
- Four categories
  - Health status and quality of life
  - Symptoms, risk behaviors, and trigger exposure
  - Asthma care and self-management education
  - Costs and barriers
- Core measures from the Centers for Disease Control and Prevention (CDC)
- Alignment with HP2020 objectives

Asthma ED Visits and Hospitalizations Fact Sheet

- Data on asthma ED visits and hospitalizations
- Years 2009-2014
  - Trends in ED visits and hospitalizations
  - Age-specific rates in comparison with HP2020 objectives
  - Age-adjusted rates
  - Payer type

Data Resources: Florida Reports and Fact Sheets

Data Resources: Online Data Queries

www.FLHealthCHARTS.com

www.FLTracking.com