
Using MVC data to plan INHALE: a new Asthma and COPD quality improvement collaborative

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Purpose of INHALE

The Inspiring Health Advances in Lung Care (INHALE) CQI aims to engage and empower Primary Care Providers (PCPs), Specialists (SCPs), and Physician Organizations (POs) across the state to improve patient outcomes, address inequalities in care, and promote high-value health care for children and adults with asthma and chronic obstructive pulmonary disease (COPD)



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Inspiring Health Advances in Lung Care

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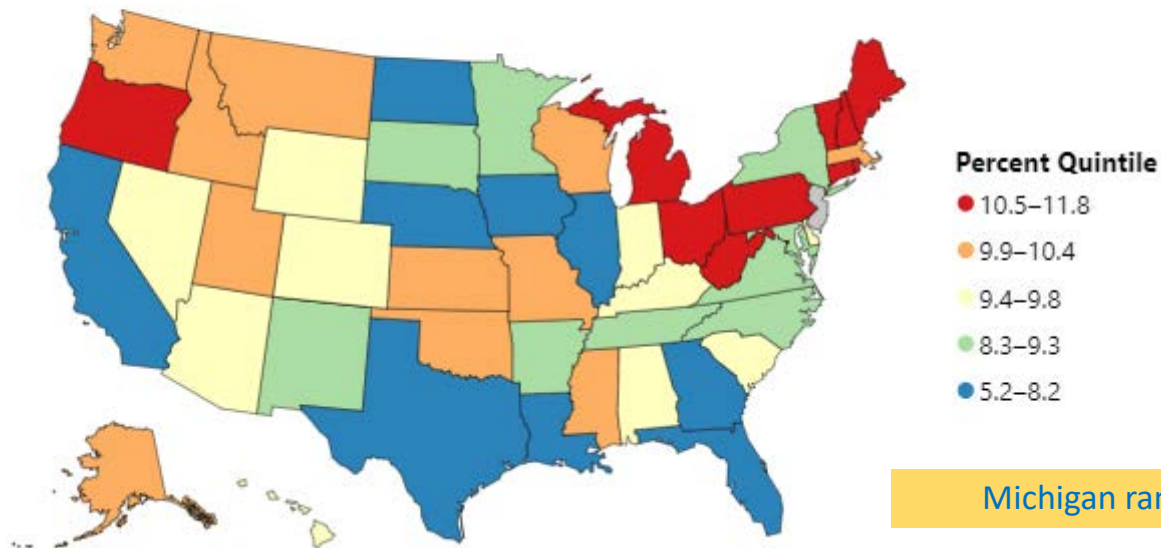
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High Prevalence of Asthma in Michigan

Current Asthma Prevalence by State or Territory (2019)



Michigan 2019

Adult Asthma
Prevalence:

11.1%

Michigan ranks **3rd** in the nation (per capita)

<https://www.cdc.gov/asthma/data-visualizations/default.htm>

State of Asthma Outcomes in Michigan

Map of the Top 20 Most Challenging Places to Live With Asthma in 2022



The Top 100 Most Challenging Places to Live With Asthma

NATIONAL RANKINGS

■ Worse Than Average
 ▲ Average
 ● Better Than Average

(Factors are not weighted equally)

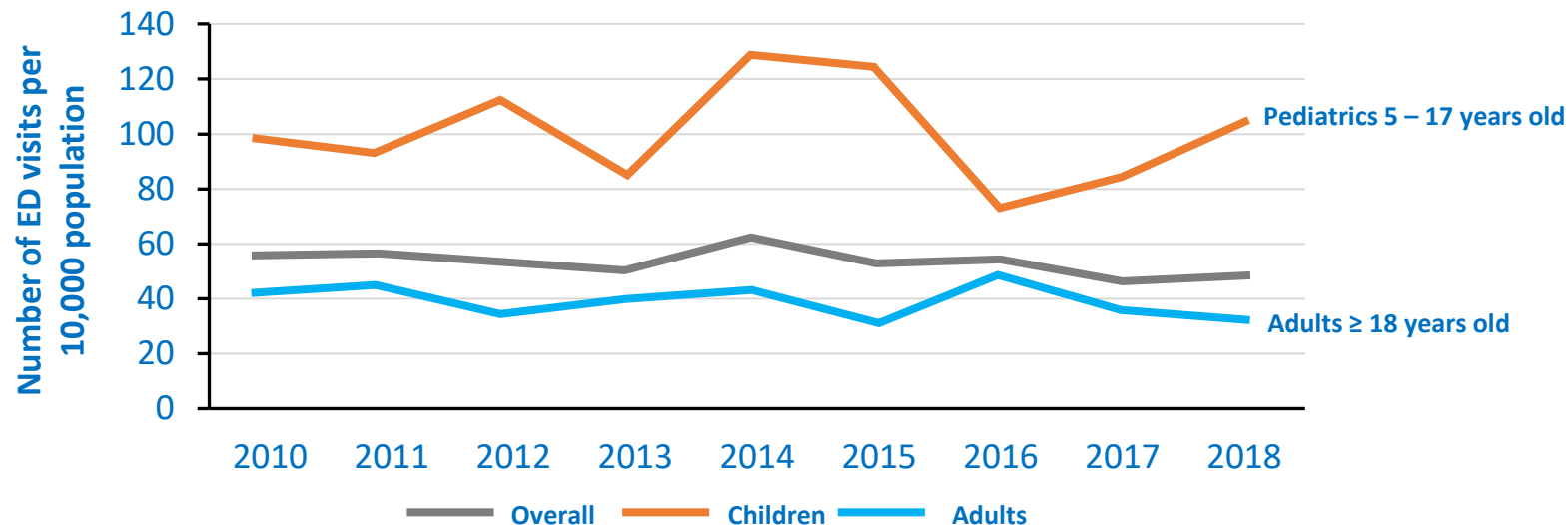
2022 National Rankings	Overall	Metropolitan Area	Total Score (Avg. 63.79)	Subtotal: Estimated Asthma Prevalence	Subtotal: Crude Death Rate for Asthma	Subtotal: ED Visits for Asthma
1	■	Detroit, MI	100.00	■	■	■
2	■	Cleveland, OH	99.51	■	■	■
3	■	Allentown, PA	98.62	■	▲	■
4	■	Lakeland, FL	97.72	■	▲	■
5	■	Fresno, CA	91.36	■	■	▲

AAFA 2022 Asthma Capitals Report September 2022. Accessed 10-9-2022



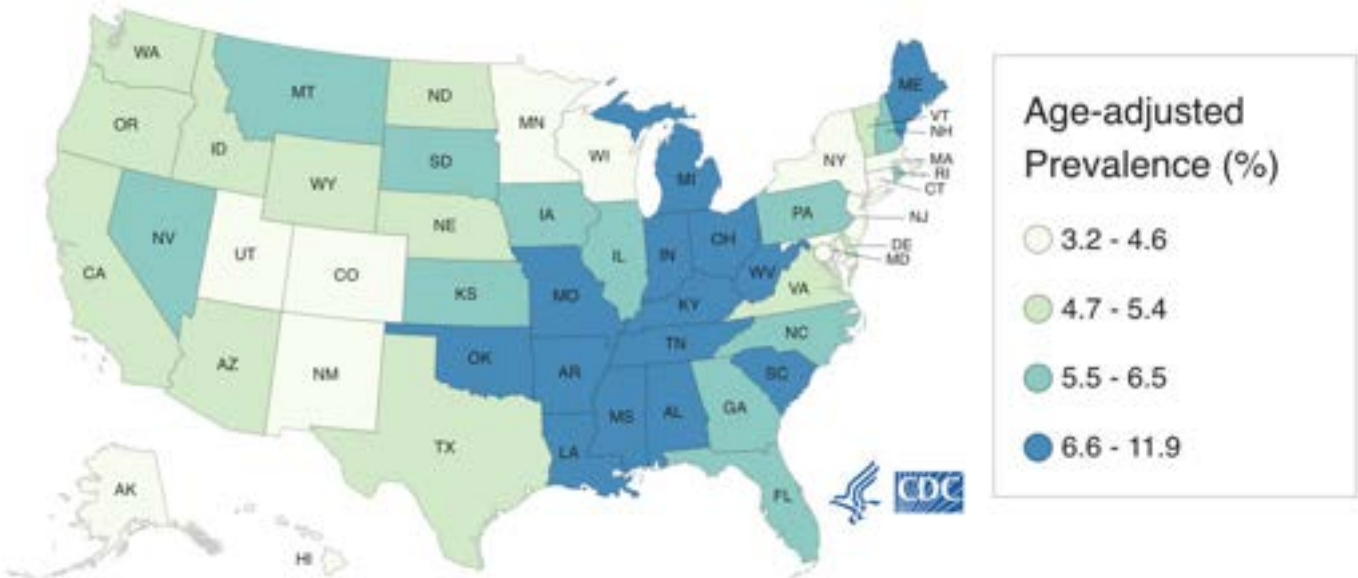
Burden of Asthma unchanged over a Decade

Asthma emergency department (ED) visit rate^a (per 10,000 population) by age group^b and year



High Prevalence of COPD in Michigan

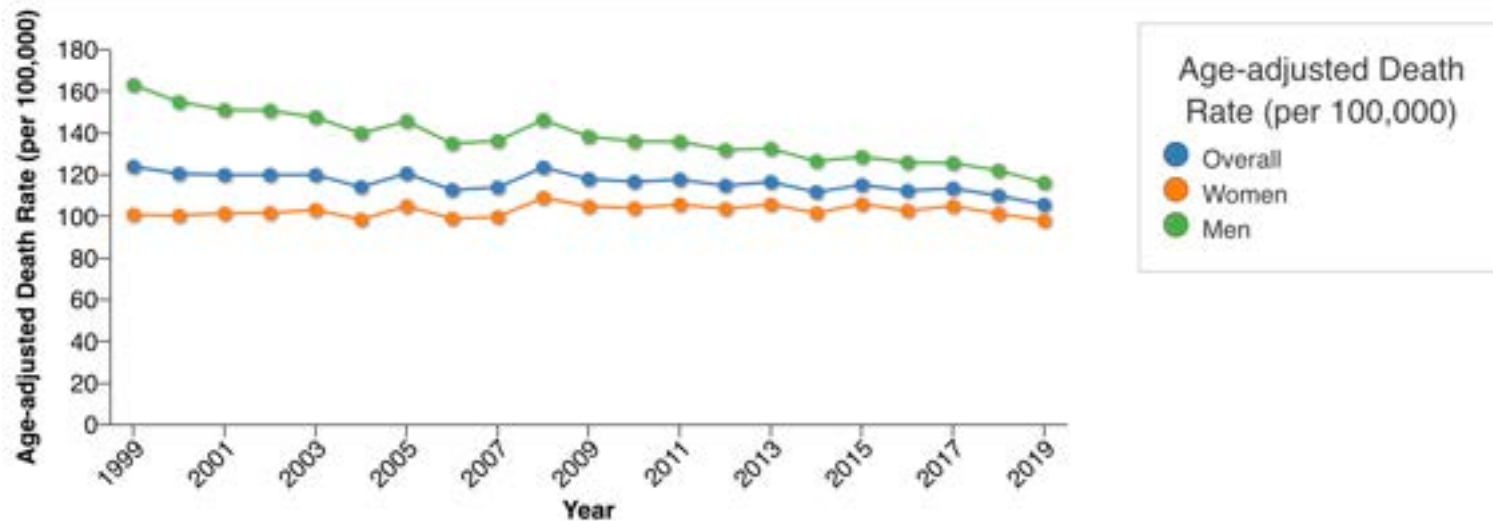
- Age-adjusted prevalence of COPD varied between states in 2020 and ranged from 3.2% in Hawaii to 11.9% in West Virginia.



Prevalence of COPD in Michigan is 8.5%

647,000 individuals live with COPD in the state

National COPD Mortality Rates



Data Source: National Vital Statistics System, 1999-2019. Mortality data at <http://wonder.cdc.gov>.

Underlying cause of death ICD-10 codes: J40-J44.

Death rates (per 100,000 population) age-standardized to the 2000 US projected population.

INHALE Initiatives

Spirometry

Appropriate use of spirometry as a tool to accurately diagnose both Asthma and COPD



Medication Over Reliance

Reduce reliance on short-acting beta-agonists (SABA) and exposure to oral corticosteroids (OCS) to improve disease control, reduce exacerbations, and long-term adverse effects



Patient and Provider Education

Education for both providers and patients on inhaler use; recognition of good disease control and strategies to reduce acute exacerbations



Using MVC data to bring the INHALE vision to reality

- New measures to track Asthma and COPD care
- New methods to track specialist care
- New results on Asthma and COPD disparities
- New insights to boost INHALE's impact in Michigan

New INHALE Asthma and COPD measures

- Appropriate use of spirometry
- Inhaler education
- Smoking cessation counseling
- Short-acting beta agonist use
- Oral corticosteroid use
- Appropriate maintenance inhaler prescribing
- Pulmonary rehabilitation after COPD hospitalization
- Urgent care, emergency department visits, and hospitalizations



Michigan Data Collaborative

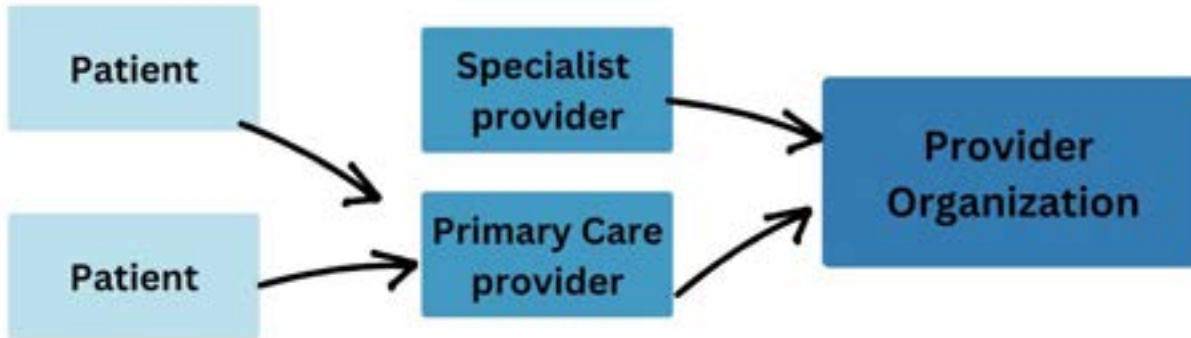


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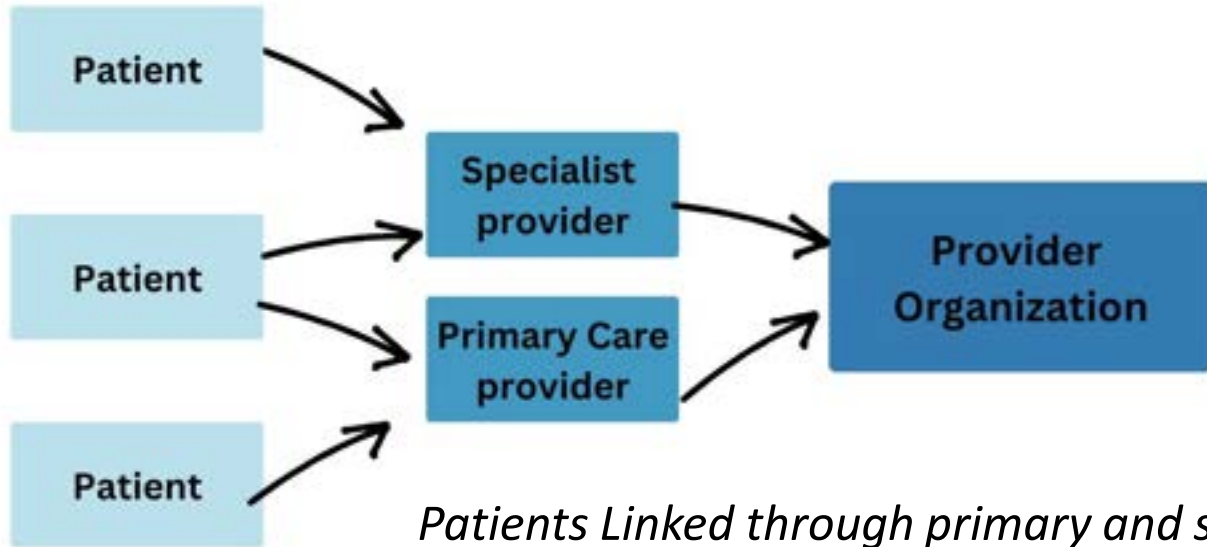
How we link patients to provider organizations

Prior state:

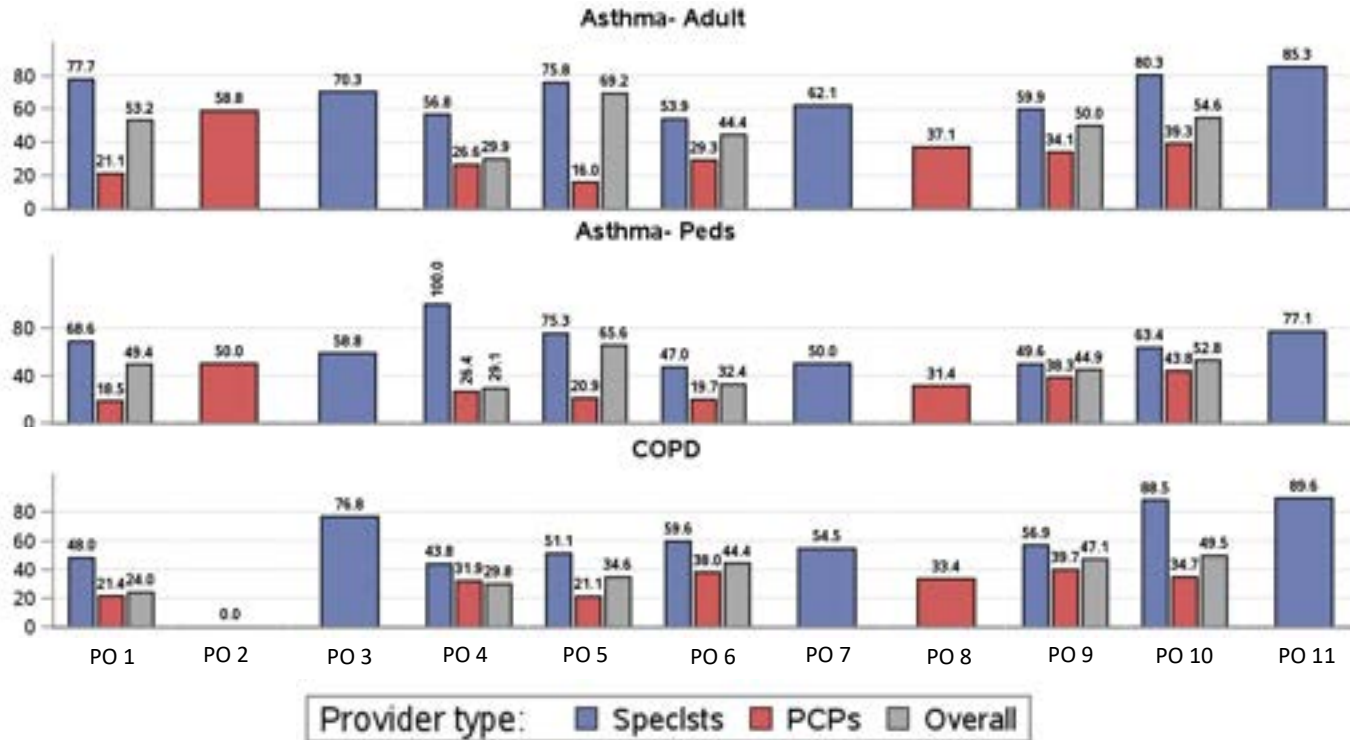


Patients linked through primary care only

How we link patients to provider organizations



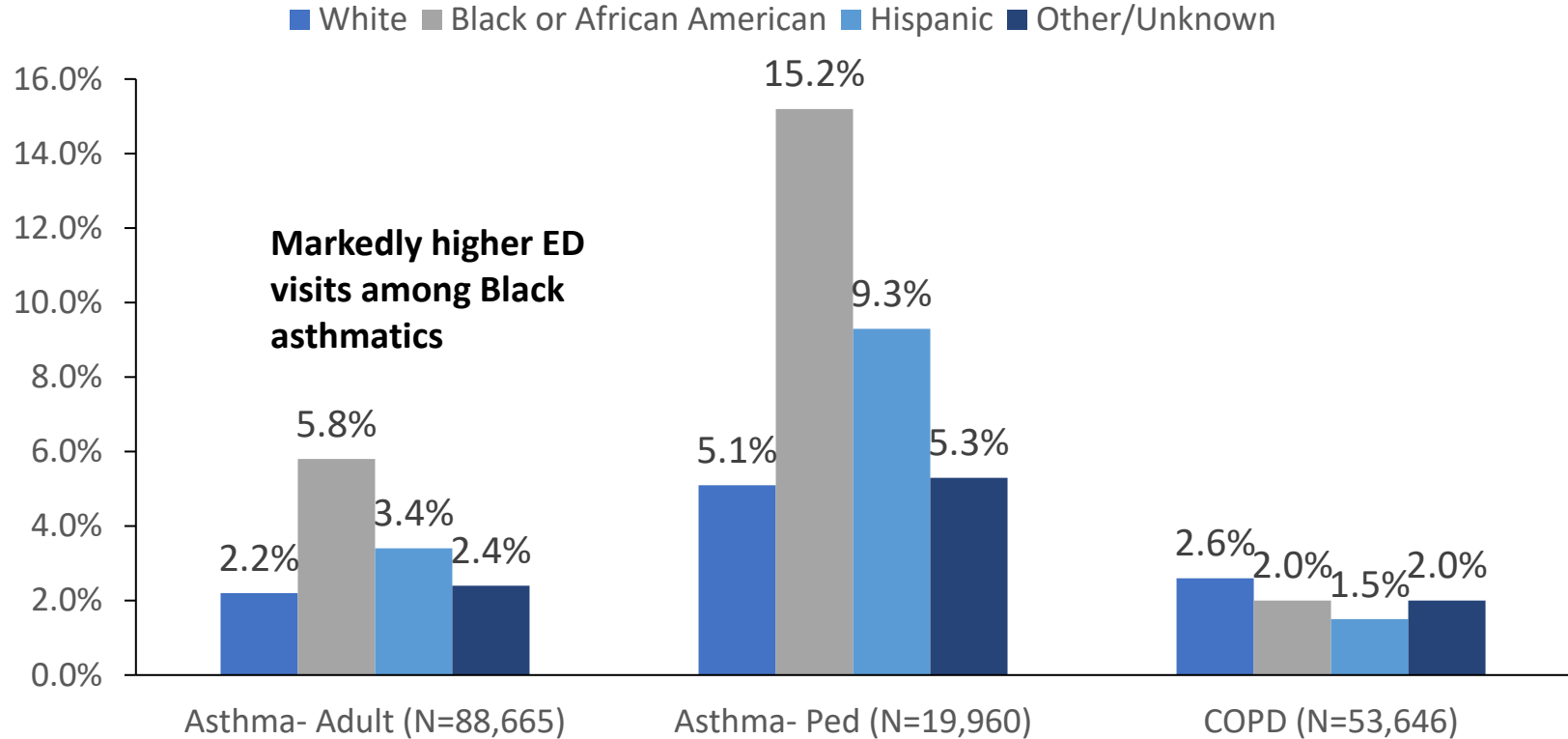
Spirometry use among PCPs and specialists



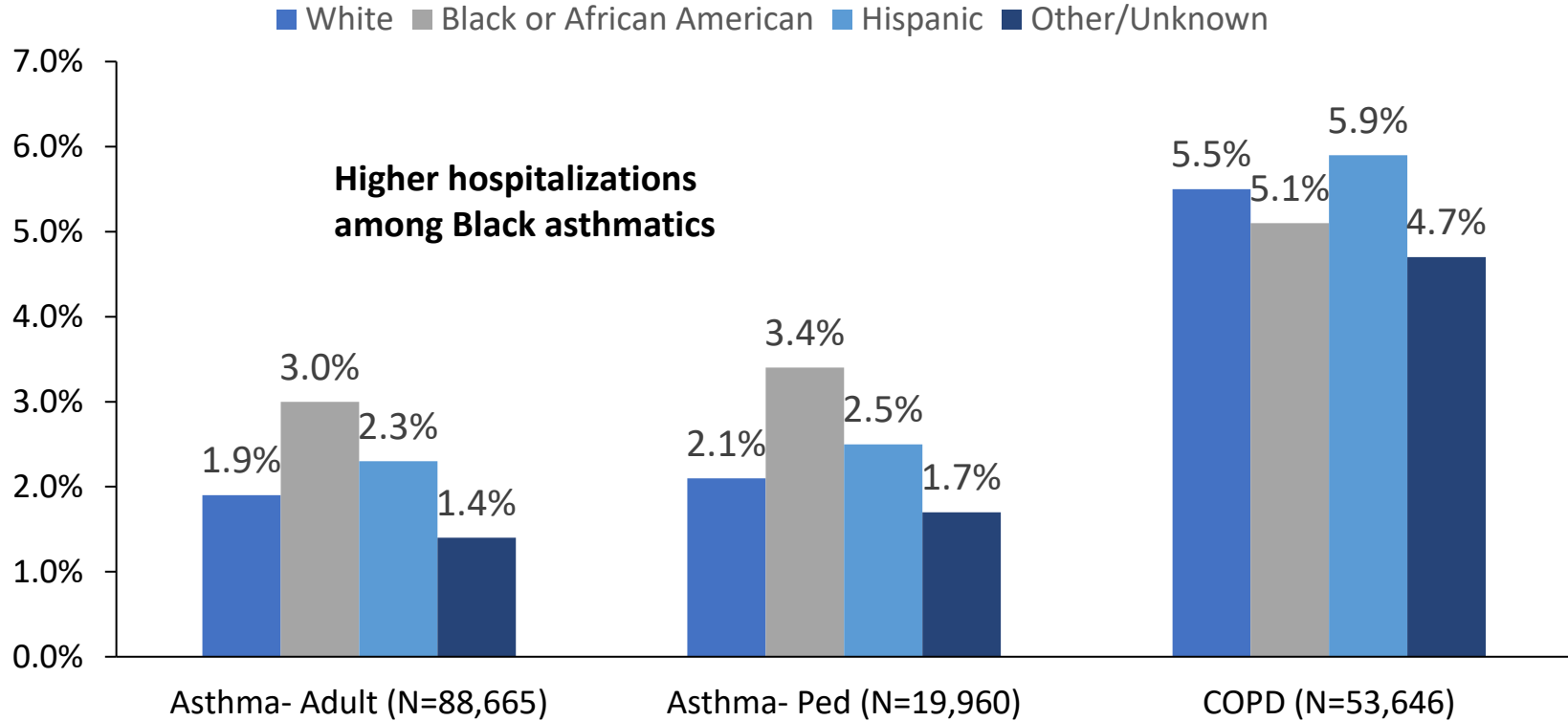
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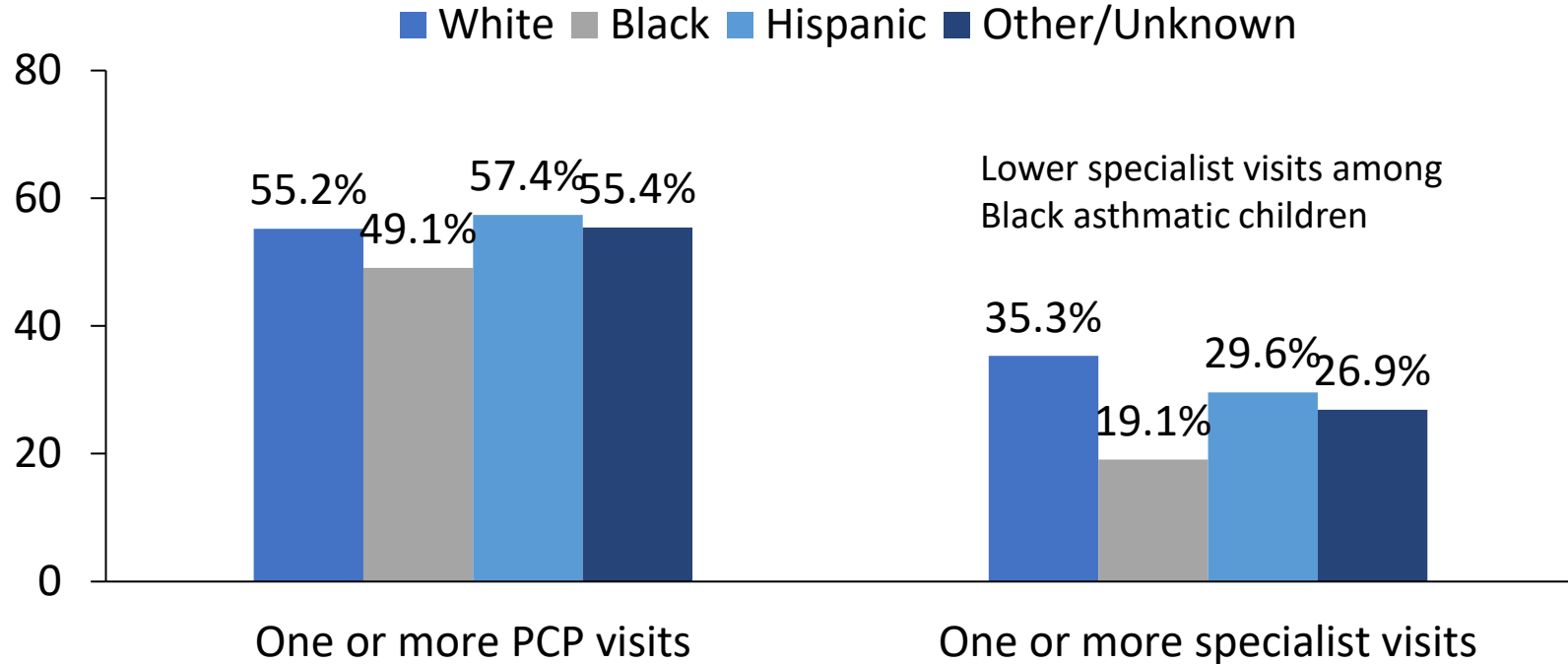
Emergency Department visits by race/ethnicity



Hospitalizations by race/ethnicity



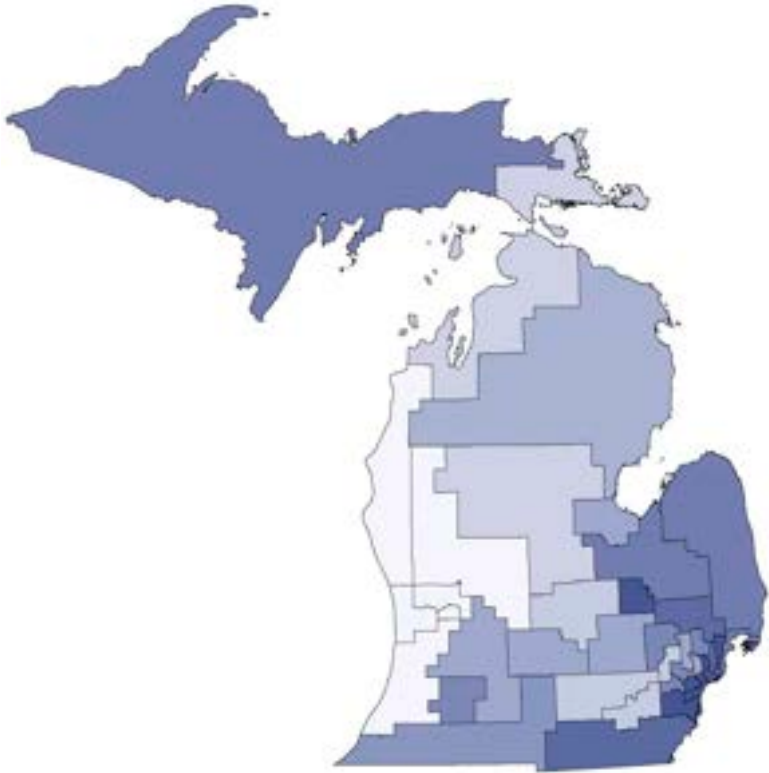
PCP and specialist visits in asthmatic children in 2022



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- **New insights to boost INHALE's impact in Michigan**

Adult Asthma control in Michigan in 2022

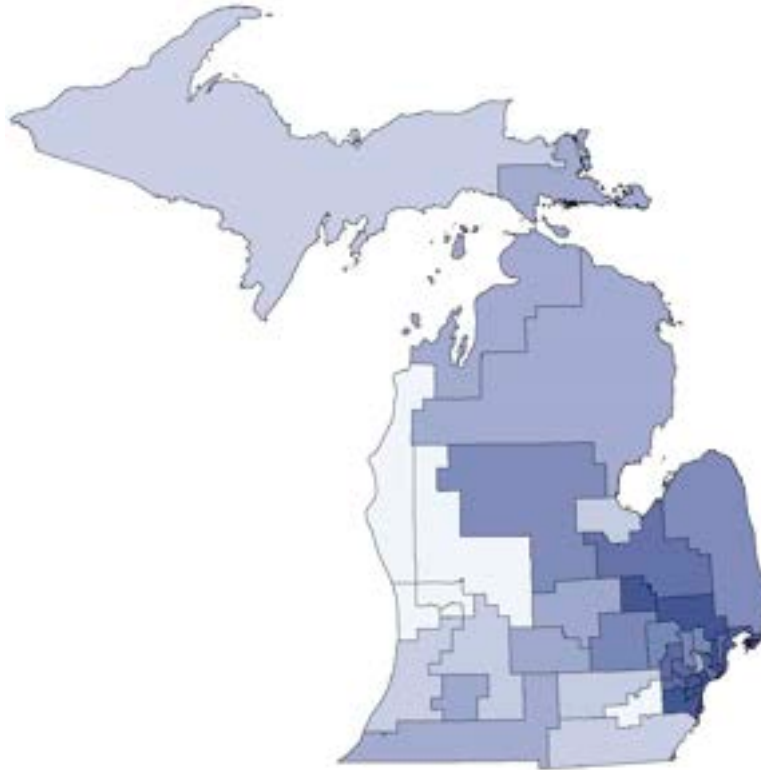


Patients with poor control

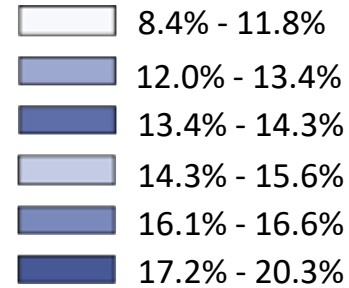
- 11.4% - 16.2%
- 16.5% - 17.4%
- 17.4% - 19.0%
- 19.1% - 20.4%
- 20.6% - 21.5%
- 21.5% - 23.4%

Detroit and Flint areas with highest levels of poor adult asthma control

Pediatric Asthma control in Michigan in 2022

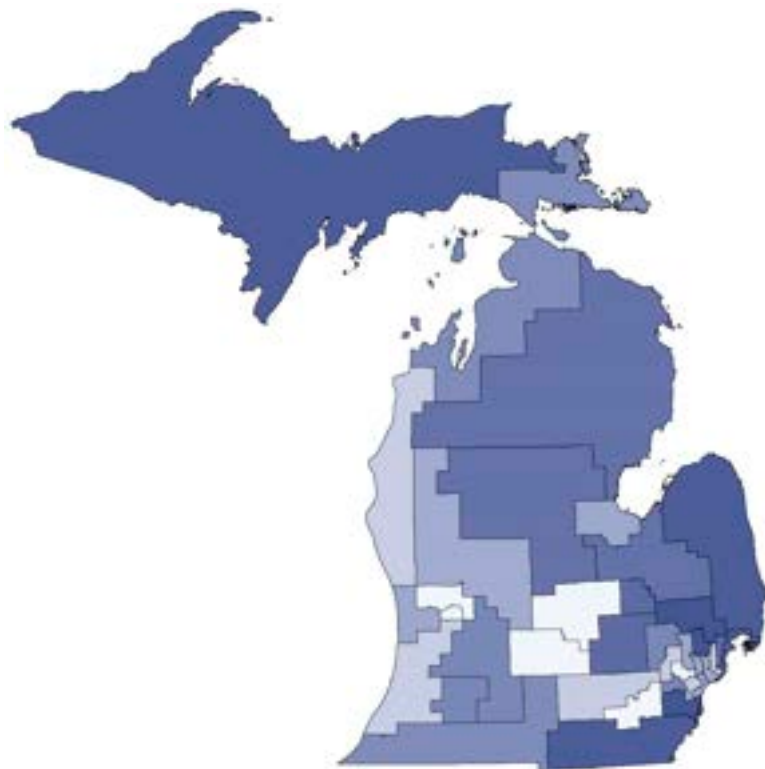


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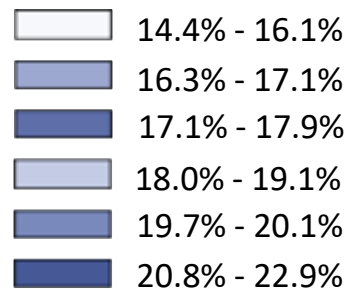


Detroit with highest levels
of poor pediatric asthma
control

COPD control in Michigan in 2022



Patients with poor control



Upper peninsula and thumb with highest levels of poor COPD control

INHALE strategies to improve Asthma and COPD outcomes

- Quality improvement guided by data
- Focus on risk mitigation
- Designing interventions for high-risk populations
- Increasing care coordination between patients, primary care physicians and specialists
- Empowering patients



Questions



INHALE

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