# **Kentucky Asthma Data**

**Kentucky Asthma Management Program** 

May 4, 2022







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# Kentucky Asthma Management Program (KAMP)

- KAMP formed in 2007 after receiving state and CDC funding
  - Preventive Health and Health Services Block Grant
  - EXHALE Grant
- Analyzes state data on asthma prevalence and burden
- Supports educational opportunities for health professionals, school nurses, community health workers and health educators



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# Kentucky Asthma Management Program (KAMP)

- Promotes public awareness of asthma
- The Kentucky Asthma Partnership (KAP) is a 501c3 providing staff facilitation and support
  - All volunteer organization with representatives from clinical practices, universities, schools, hospitals, public health, pharmacy, business organizations, advocacy organizations and people with asthma
  - Supports policy changes to reduce the burden of asthma



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# Kentucky Asthma Data Overview

One in ten Kentucky adults report having asthma, similar to the U.S.\*



- Health disparities include gender, race, education and income level\*
- Asthma produces ~\$500 million in costs from emergency department visits, hospitalization, clinical care, medications and missed work and school each year in Kentucky (CDC)

\*Source: Centers for Disease Control and Prevention (CDC) Behavioral Risk Factor Surveillance Data and KyBRFS data and Youth Risk Behavior Survey.

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# **Kentucky Child Asthma Data**

- In Kentucky, current asthma prevalence for children has trended downward from 10.2% in 2012 to 6.8% in 2020\*
- Youth Risk Behavior Survey (YRBS) 2019 data indicated 23.9% of high school students in Kentucky report having been told they have asthma\*
- Kentucky Department of Education (KDE) 2020 data lists asthma as the most common chronic disease in schools with over 46,000 children in Infinite Campus



\*Source: Centers for Disease Control and Prevention (CDC) Behavioral Risk Factor Surveillance Data and KyBRFS data and Youth Risk Behavior Survey.

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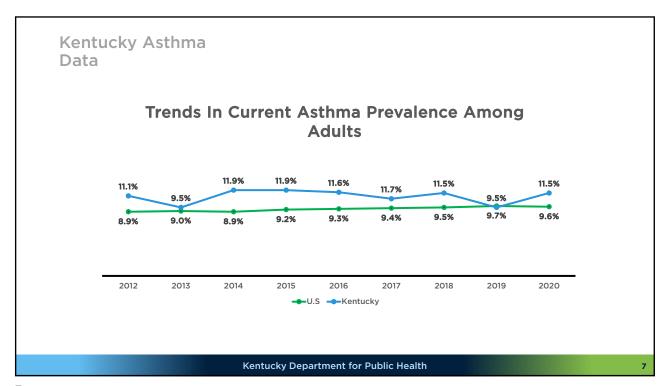
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# **Kentucky Asthma Data Sources**

- Office of Health Data and Analytics (OHDA)
  - Hospitalization and emergency department visits
- **WAY STATE OF THE STATE OF THE**
- © Environmental Public Health Tracking Network (EPHTN) publishes BRFS and OHDA data
- Kentucky Department of Education (KDE) Infinite Campus
  - Published by county
- ▼ Kentucky YRBS (KDE)
- NSSP ESSENCE data

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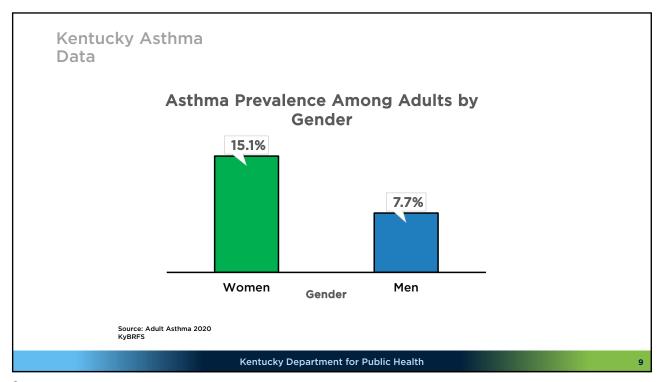


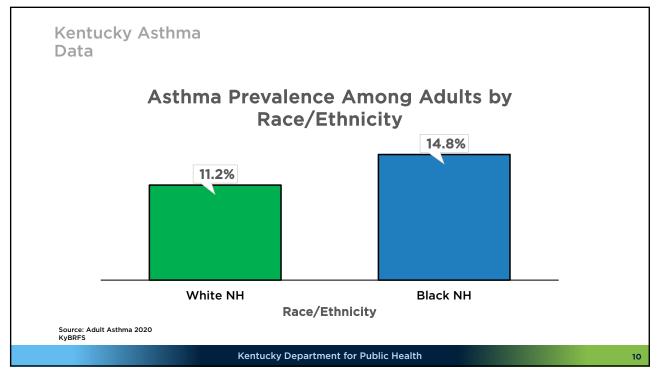
#### Kentucky Asthma Data

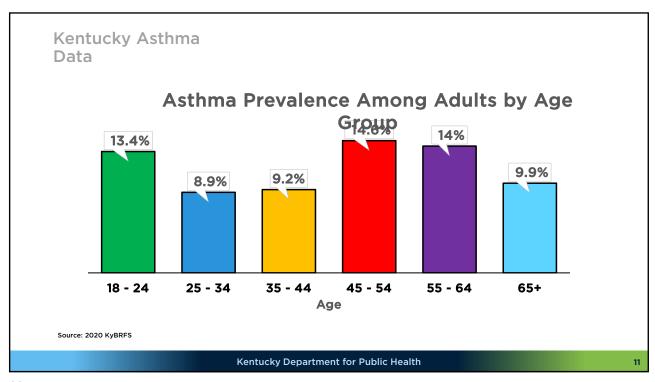
Asthma Prevalence by Region			
Regions	%	95% CI	
Western (Purchase, Pennyrile, Green River)	9.5	(6.5 - 12.5)	
Central (Barren River, Lincoln Trail, Lake Cumberland)	15.1	(11.7 - 18.5)	
KIPDA (Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer, Trimble)	10.9	(7.7 – 14.1)	
Northern	11.2	(8.2 - 14.1)	
Eastern (Buffalo Trace, Gateway, FIVCO, Big Sandy, Kentucky River, Cumberland Valley)	12.7	(9.5 - 15.9)	
Bluegrass Source: 2020	9.4	(6.9 - 11.8)	

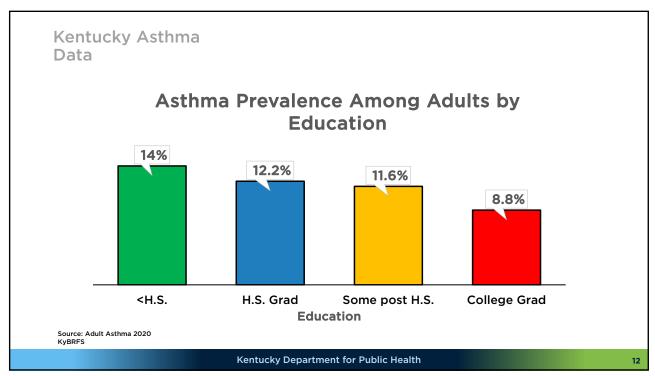
KyBRFS

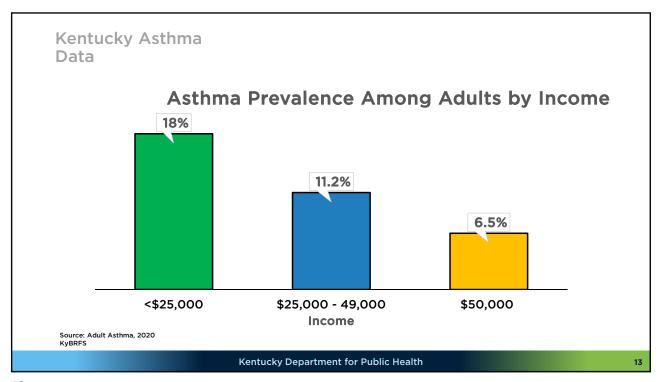
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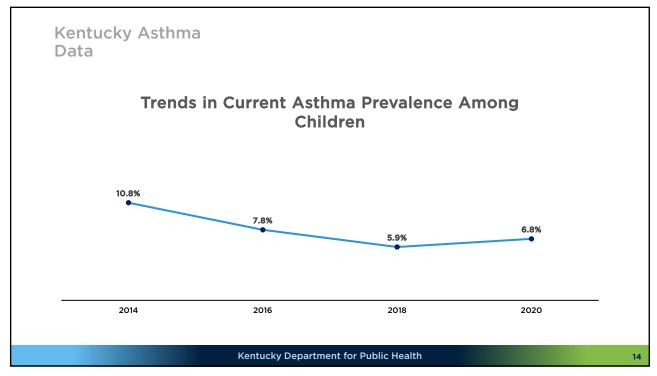


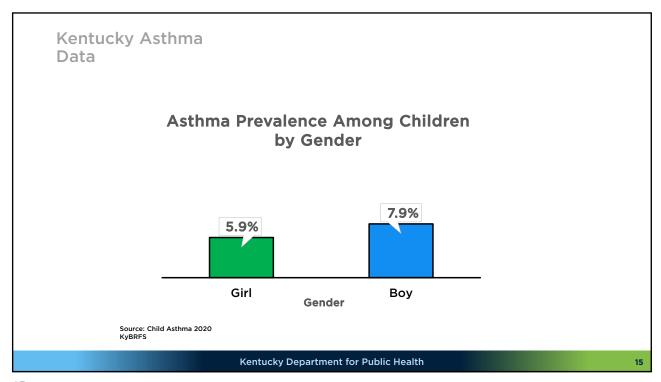


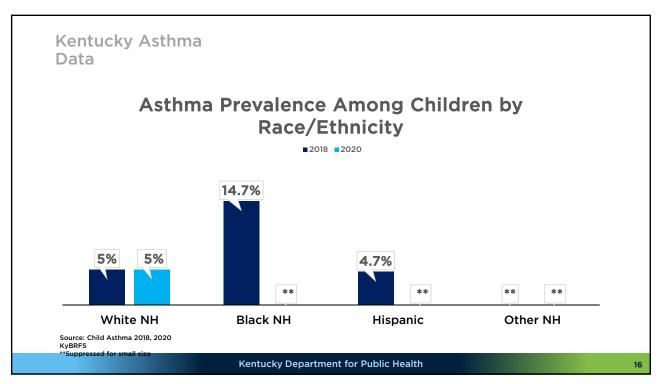


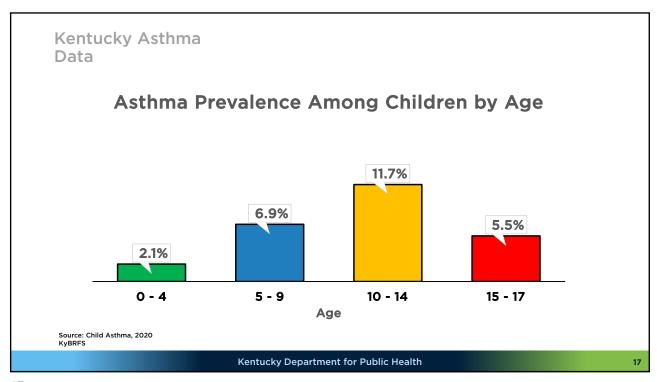


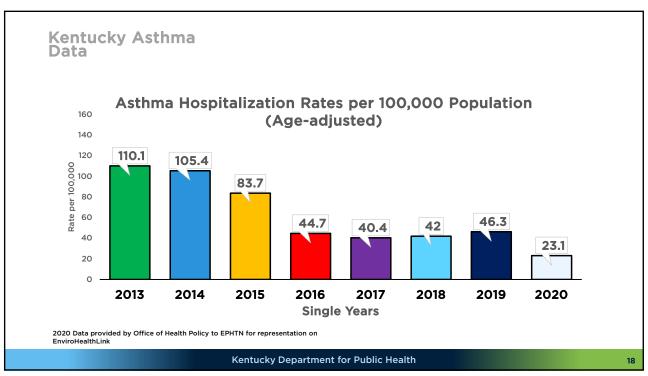


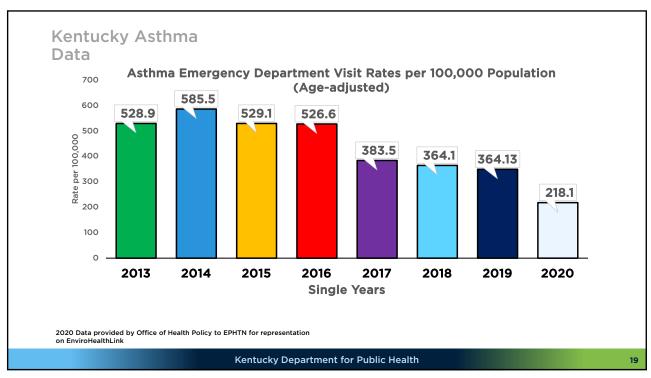












# Kentucky Asthma Data

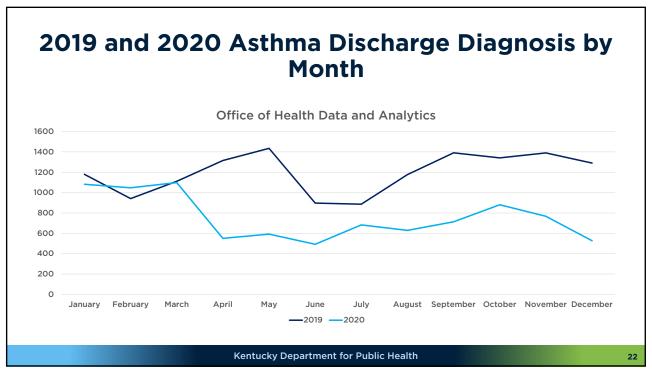
2020 Asthma Hospitalizations by Age Groups			
Age Groups	Number of HD Visits	Number of ED Visits	
Under 5	124	618	
5 - 9	103	662	
10 - 14	57	610	
15 - 17	27	357	
18 - 24	53	1344	
25 - 34	101	1858	
35 - 44	140	1457	
45 - 54	143	1091	
55 - 64	97	611	
65+	142	427	
Total	987	9035	

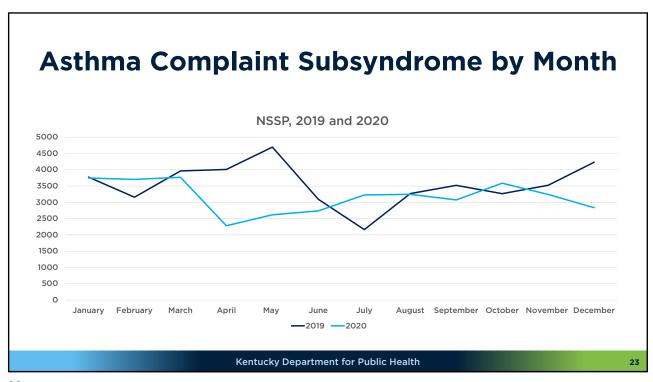
2020 Data provided by Office of Health Policy to EPHTN for representation on EnviroHealthLink

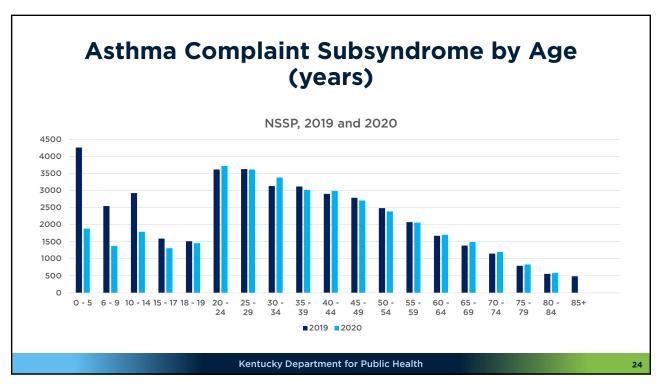
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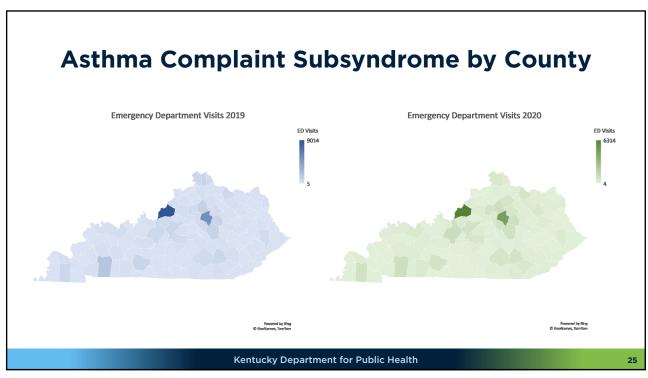
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Res	ident As			Age, Of	fice of '	Vital
			Statistics	<b>S</b>		
Year	0 - 20	21 - 40	Age Group 41 - 60	61 - 80	>80	TOTAL
2013	0 - 20	6	11	6	13	36
2014	0	<5	12	9	9	*
2015	<5	6	10	9	10	*
2016	<5	8	9	14	14	*
2017	<5	<5	9	9	7	31
2018	<5	<5	8	7	<5	26
2019	<5	7	12	<5	5	31
2020	5	<5	12	11	8	*





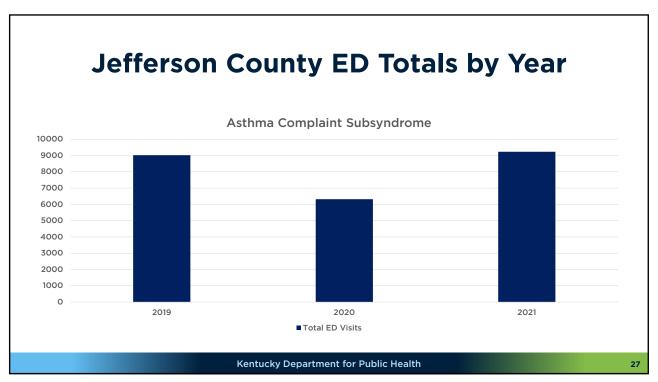


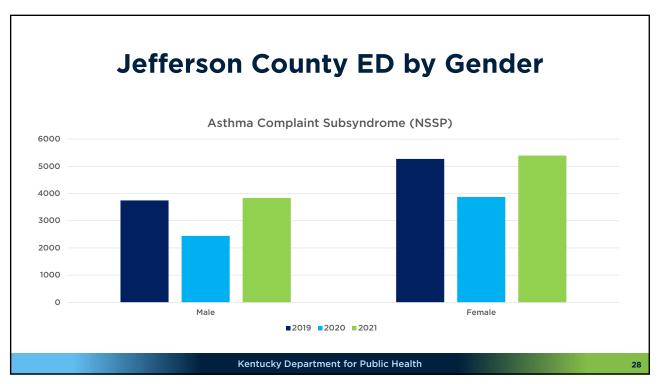


## **Profile: Jefferson County, KY (Louisville Metro)**

- Contacts in school system and in health department (Louisville Metro Public Health & Wellness)
  - Implemented stock albuterol policy
  - Healthy Homes/K-ACT
- ♥ Large health systems
  - Exploring partnerships
- KAP leadership
  - Physicians
- University of Louisville Envirome Project
- Significant data will direct projects

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# Jefferson County ED Asthma Complaint Subsyndrome

ED Visits			
Race	2019	2020	2021
White	3702	2767	2975
Black/AA	4567	3139	4059

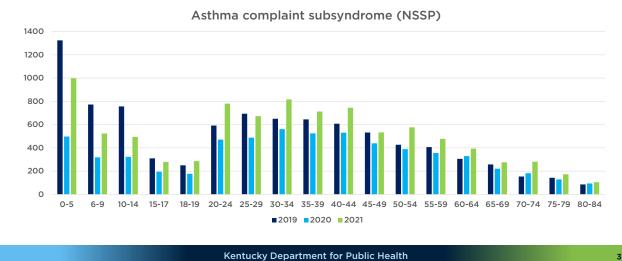
Inpatient			
Race	2019	2020	2021
White	1132	2767	2975
Black/AA	4567	3139	4059

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# Jefferson County ED Visits by Age Group



### **Thank You!**

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