

KOHC December Annual Meeting

Friday, December 13th, 2024

Kentucky Oral Health Coalition

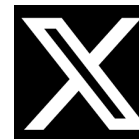


For a lifetime of oral health

To learn more about KOHC and
become a member, please
visit www.kyoralhealthcoalition.org



Kentucky Oral Health
Coalition



@KYOralHealth

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To sponsor a future KOHC event, head to kyoralhealthcoalition.org



Thank you to
our co-hosts

Western Kentucky University: Dental Hygiene Program



Meeting Agenda

- Welcome and Introductions
- Spotlight: WKU Dental Hygiene Program
- Keynote: Trauma Informed Care in Oral Health
- Lunch
- Oral Cancer Grant Updates and Insights
- UK Early Learners Surveillance Study
- Community Water Fluoridation - Trends and Opportunities
- KOHC Policy Agenda
- Member Voting
- Closing



WKU Program of Dental Hygiene

Dental Hygiene Program Numbers

- Class of 2024
 - 27 graduates all earning a BS degree in Dental Hygiene
 - 100% clinical exam pass rate on first attempt
 - 26/27 students (96.3%) written national board exam pass rate on first attempt
 - Immediate job placement
- Class of 2025
 - All 28 students completed required coursework and will be returning in Fall 2024
- Class of 2026
 - New cohort of 28 accepted into the program



Clinical Background

- The Program of Dental Hygiene continues to run a fully functioning dental hygiene clinic as it has for 52 years providing therapeutic, preventive, and educational services to members of the student body, faculty and community residents. The clinic continues to generate its own revenue.
- The WKU clinic provided approximately 1600 patient/student interactions during the clinical component of the 2023-2024 academic year.
- Treatment includes clinical exams, x-rays, cleanings, oral hygiene instruction, sealants, as well as a variety of supporting services.
 - \$35.00 for the general public
 - \$25.00 for WKU students



Program Outreach

- Students, faculty, and alumni volunteered to serve the Bowling Green community and region with dental treatment at the Remote Area Medical (RAM) event which took place last August.
- DH students throughout the academic year worked with the Bowling Green Dental Clinic, Kelly Autism Clinic, and the Buddy House of Bowling Green, and Lifeworks at WKU.



Program Outreach

- Chandler Park Assisted Living Facility-Provided information on the importance of oral health care for senior adults. Topics included: medical conditions/medicine and xerostomia, dental diseases, oral hygiene instructions, edentulism and replacement of missing teeth, alternative dental treatment including implants, and how to find affordable care in the area. Provided denture/partial denture cleaning on site with oral hygiene products provided to all participants.



Student American Dental Hygienists' Association (SADHA) Activities 2023-24

- Students partnered with the Buddy House of Bowling Green with member volunteers supporting the players during the Hardwood Heroes Basketball Classic. Students helped with greeting, check-in, concessions, and the halftime shoot off.





CABINET FOR HEALTH
AND FAMILY SERVICES

Trauma-Informed & Resilience-Oriented Approaches for Dental Hygiene Program

Diane Gruen-Kidd, LCSW

Department for Behavioral Health, Developmental & Intellectual Disabilities

December 13, 2024

Bowling Green, KY

Roadmap

Understanding trauma & traumatic stress responses

Strategies to minimize traumatic stress responses for during dental appointments

Leveraging dental care as a resilience-building experience

Self-Awareness Reminder

- Pay attention to your own needs and responses
- Take care of yourself however you need to during and following the presentation; you may be impacted even after this session
- Use coping skills that help you *metabolize* your responses to trauma
- Find a safe space in which you can process your experience using coping strategies including talking to colleagues, friends, family, or a professional provider



What is Trauma?

Event

- conveys actual or perceived threat of death, serious injury or sexual violation to one's self or someone close.

Experience

- unique, individual perception of threat to one's self or someone close

Effect

- adverse, may be long-lasting, & global: impacts social, emotional, cognitive, spiritual & physical development & functioning

Types of Trauma



3 Realms of ACEs

Adverse childhood and community experiences (ACEs) can occur in the household, the community, or in the environment and cause toxic stress. Left unaddressed, toxic stress from ACEs harms children and families, organizations, systems and communities, and reduces the ability of individuals and entities to respond to stressful events with resiliency. Research has shown that there are many ways to reduce and heal from toxic stress and build healthy, caring communities.

Household or Familial Traumas or Adversities

Community Traumas or Adversities, Root Causes, Social Drivers of Health & Well-Being

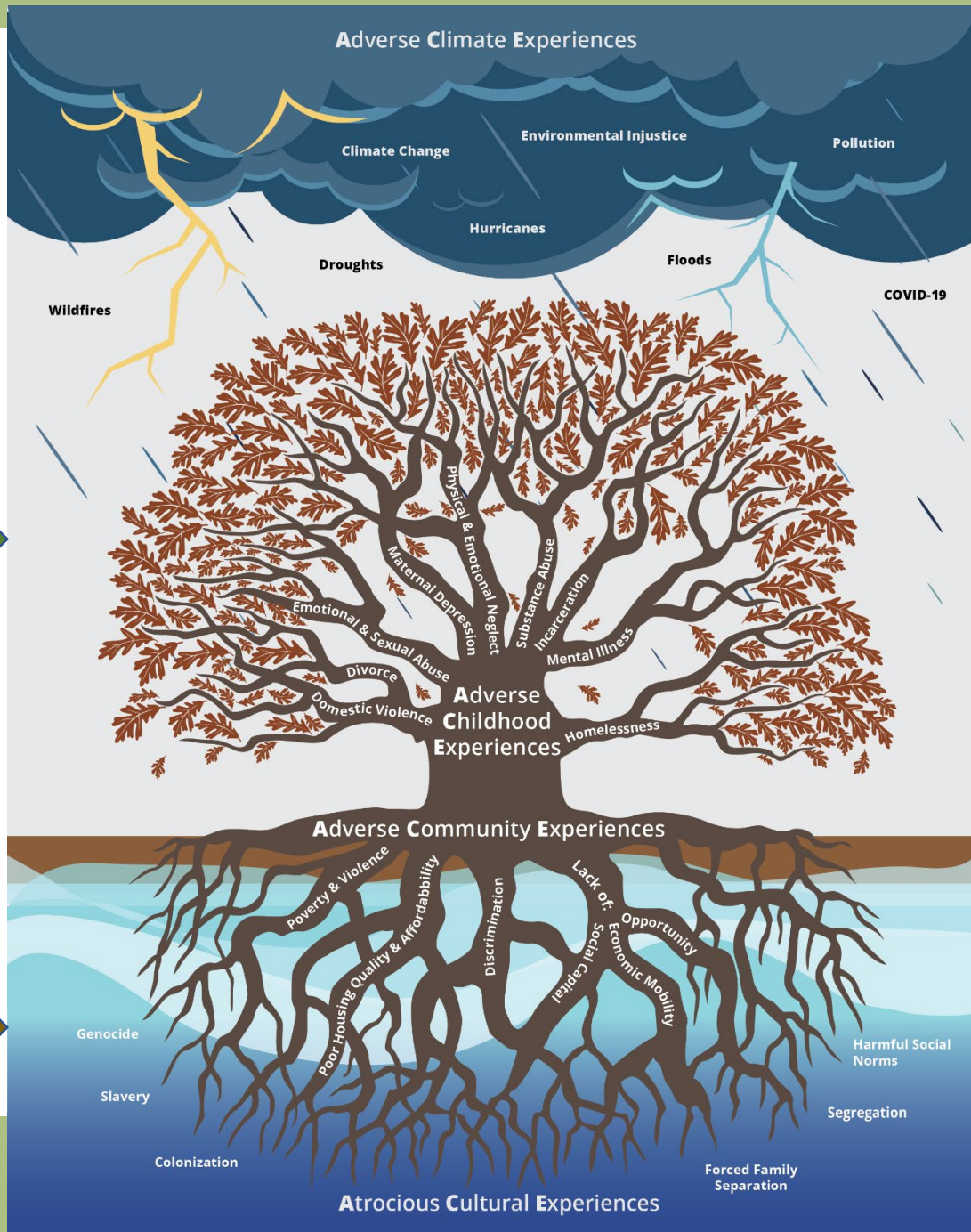
Climate & Natural Traumas or Adversities



PACes Connection thanks Building Community Resilience Collaborative and Networks and the International Transformational Resilience Coalition for inspiration and guidance. Please visit [PACesConnection.com](https://www.pacesconnection.com) to learn more about the science of ACEs and join the movement to prevent ACEs, heal trauma and build resilience.



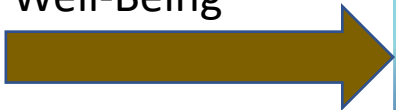
<https://www.pacesconnection.com/blog/3-realms-of-aces-updated>



Household or
Familial
Traumas or
Adversities



Community
Traumas or
Adversities,
Root Causes,
Social Drivers
of Health &
Well-Being



Climate &
Natural
Traumas or
Adversities



Cultural
Traumas or
Adversities



Image created by the North Carolina Partnership for Children © 2021

Trauma Exposure

- Direct experience
- Witnessing (in person) to others
- Hearing about others' experiences
- Learning a trauma happened to a family member or friend
- Repeat or extreme exposure to aversive details (e.g. police officers repeatedly exposed to details of child abuse)



picture copyright washingtonpost.com

Racial Trauma

Racial trauma, or race-based traumatic stress (RBTSS), refers to the mental and emotional

injury caused by encounters with racial bias and ethnic discrimination, racism, and hate crimes...unlike PTSD, RBTSS is not considered a mental health disorder. RBTSS is a mental injury that can occur as the result of living within a racist system or experiencing events of racism. *(Mental Health America)*



Traumatic Stress: Brain & Body

Traumatic events **overwhelm a person's capacity to cope** and may elicit feelings of terror and powerlessness, and result in out-of-control physiological arousal



Trauma and Brain Development



FIGHT



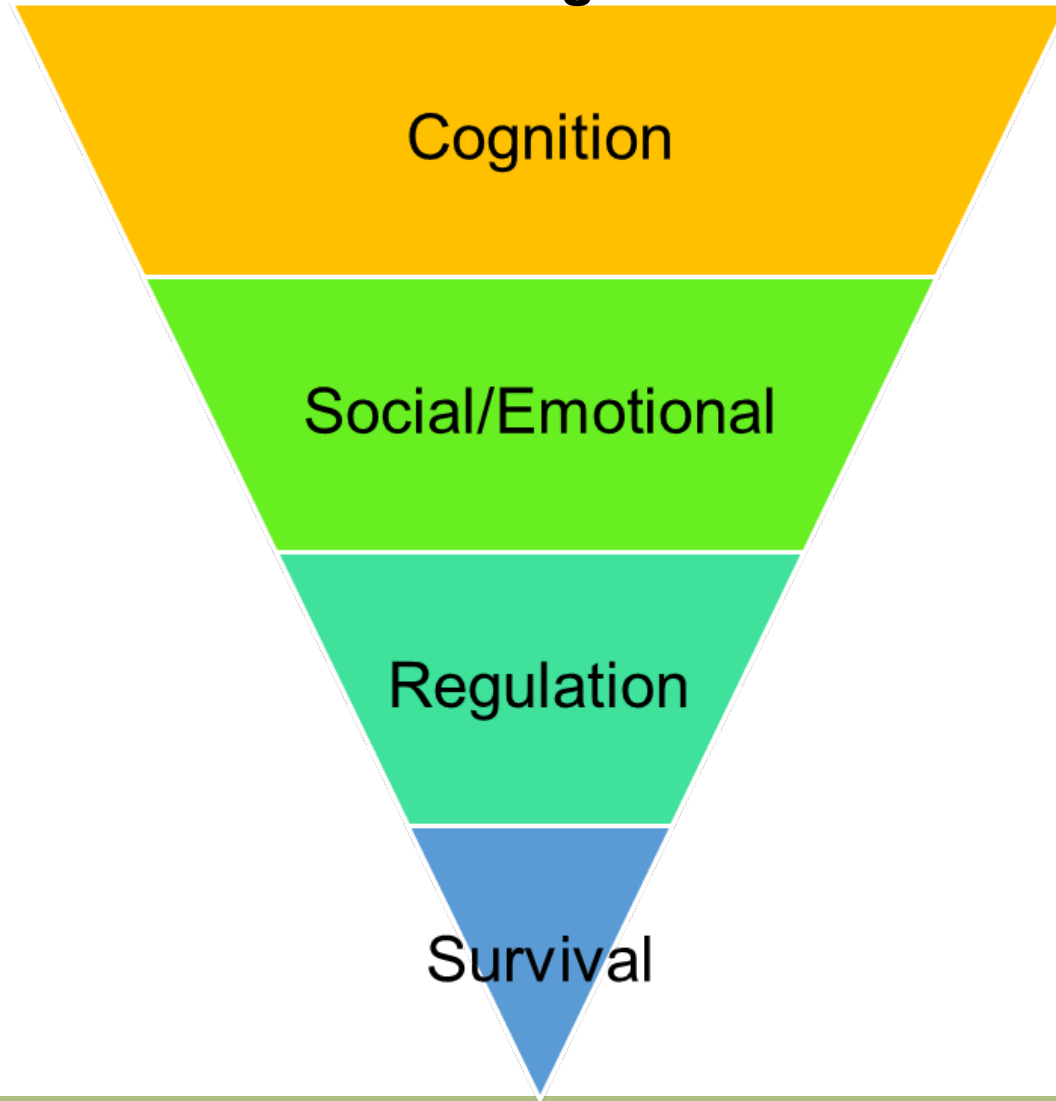
FLIGHT oohlala!



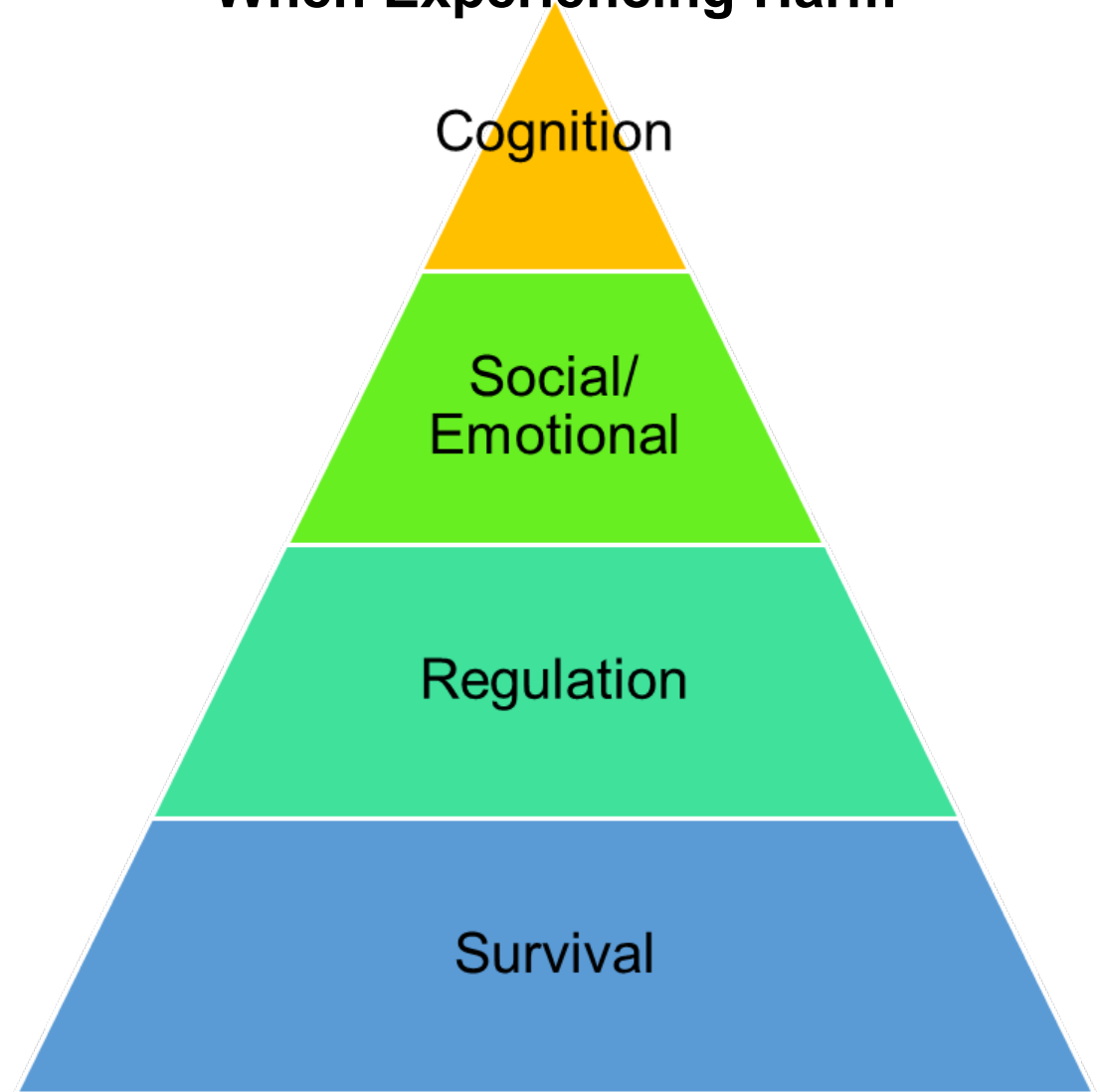
FREEZE



Brain Energy Allocation When Regulated



Brain Energy Allocation When Experiencing Harm



Adapted from Holt & Jordan, Ohio DoE based on Perry, B. (2006); Courtesy of Leora Wolf-Prusan, Pacific Southwest MHTTC

Signs and Symptoms of Traumatic Stress

Physical

- Sweating
- Aches and pain
- Dizziness
- Rapid Heartbeat

Behavioral

- Depression
- Anxiety
- Loneliness
- Use of negative coping (smoking, alcohol, or other substance abuse)

Cognitive

- Spacy-ness
- Loss of meaning
- Self-doubt
- Perfectionism
- Poor memory
- Difficulty planning

Emotional

- Anger
- Sadness
- Feeling out of control
- Guilt
- Loss of Hope

Social

- Avoidance
- Inertia
- Increased agitation
- Isolation or withdrawal
- Erratic

Trauma can change your world view



Trauma is Layered



“Trauma occurs in layers, with each layer affecting every other layer. Current trauma is one layer. Former traumas in one’s life are more fundamental layers. Underlying one’s own individual trauma history is one’s group identity or identities and the historical trauma with which they are associated.”

*Bonnie Burstow (2003),
Toward a Radical Understanding of Trauma and Trauma Work*

Trauma Reminders, Cues & Sparks

External trauma cues:

People

Places

Loud voices, yelling

Weather, time of day

Sensory stimuli e.g.
smells, touch,

temperature, light

Holidays, anniversaries,
birthdays



Internal trauma cues:

Emotions e.g. anxiety,
fear, **shame, humiliation,**
guilt, loneliness

Thoughts e.g. failure,
hopelessness, futility,
powerlessness

Memories

Physiological sensations:
hot, cold, tired, sweaty,
sexual attraction, tense

Six Principles of Trauma-Informed Systems

Safety

Trustworthiness
& Transparency

Peer Support

Collaboration &
Mutuality

Empowerment,
Voice & Choice

Equity

(SAMHSA, 2017, *SAMHSA's Concept of Trauma and Guidance for a Trauma-Informed Approach*, based on Falloot & Harris, 2009)

Integrating the 6 Elements in Care Settings

Safety

- Minimize sudden & intimidating actions
- Create a friendly office/clinic climate

Trustworthiness & Transparency

- Explain things before they happen
- Tell the whole truth

Peer Support

- Give examples of people like the patient
- Feature examples that look like your patients

Integrating the 6 Elements in Care Settings

Collaboration & Mutuality

- Ask & listen
- Co-create solutions with patients

Empowerment, Voice, Choice

- Allow patients to share their story & concerns
- Provide choices when possible

Equity

- Practice with cultural humility
- Check your own bias



Behaviors

*Fighting
Stomping*

*Talking back
Withdrawing*

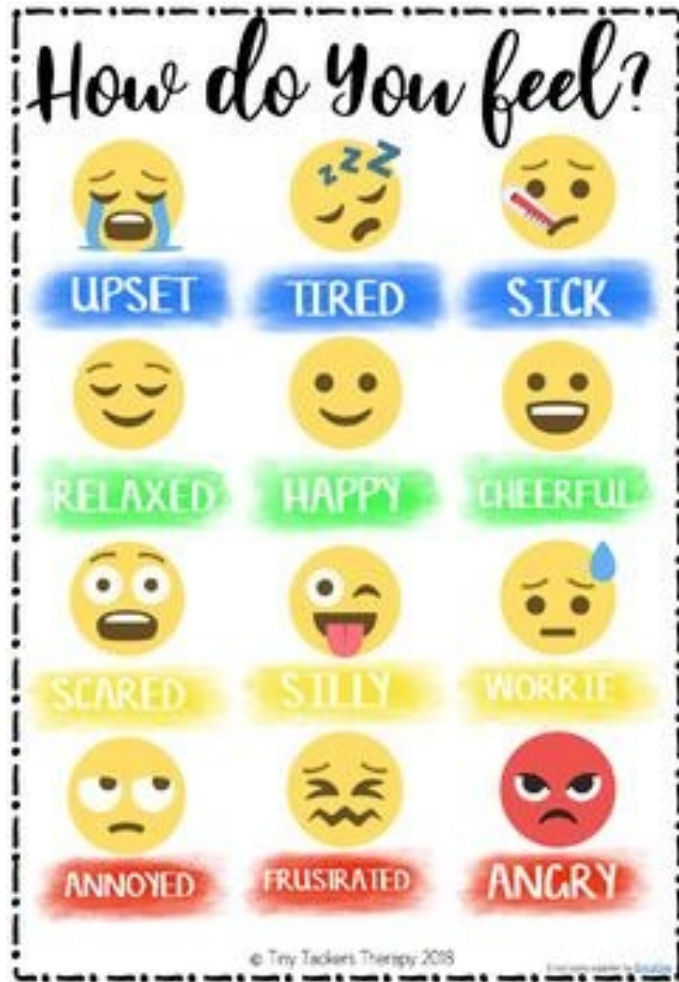
Thoughts

*I'm no good
Everyone's out to get me
I can't do anything right
No one cares about me
No point in trying
Everyone hates me*

Feelings

*Depression
Anxiety
Shame
Loneliness
Loss of hope*

Name It to Tame it



TYPE
of emotion
+
intensity
of emotion



Deep Breathing

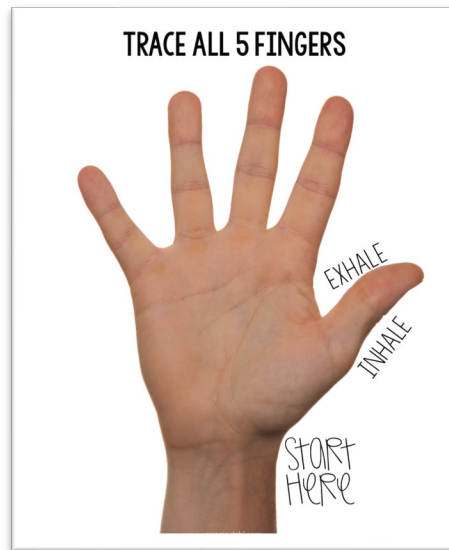
Basic Deep Breathing:

Inhale to count of 4;
exhale to count of 5



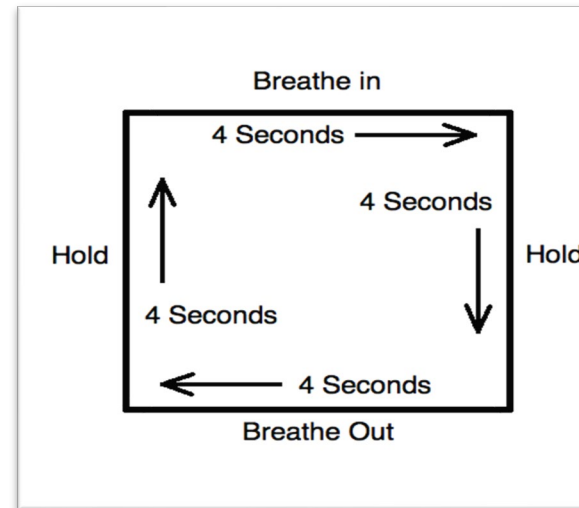
5 Finger Breathing:

Trace your fingers
with your inhale &
exhale

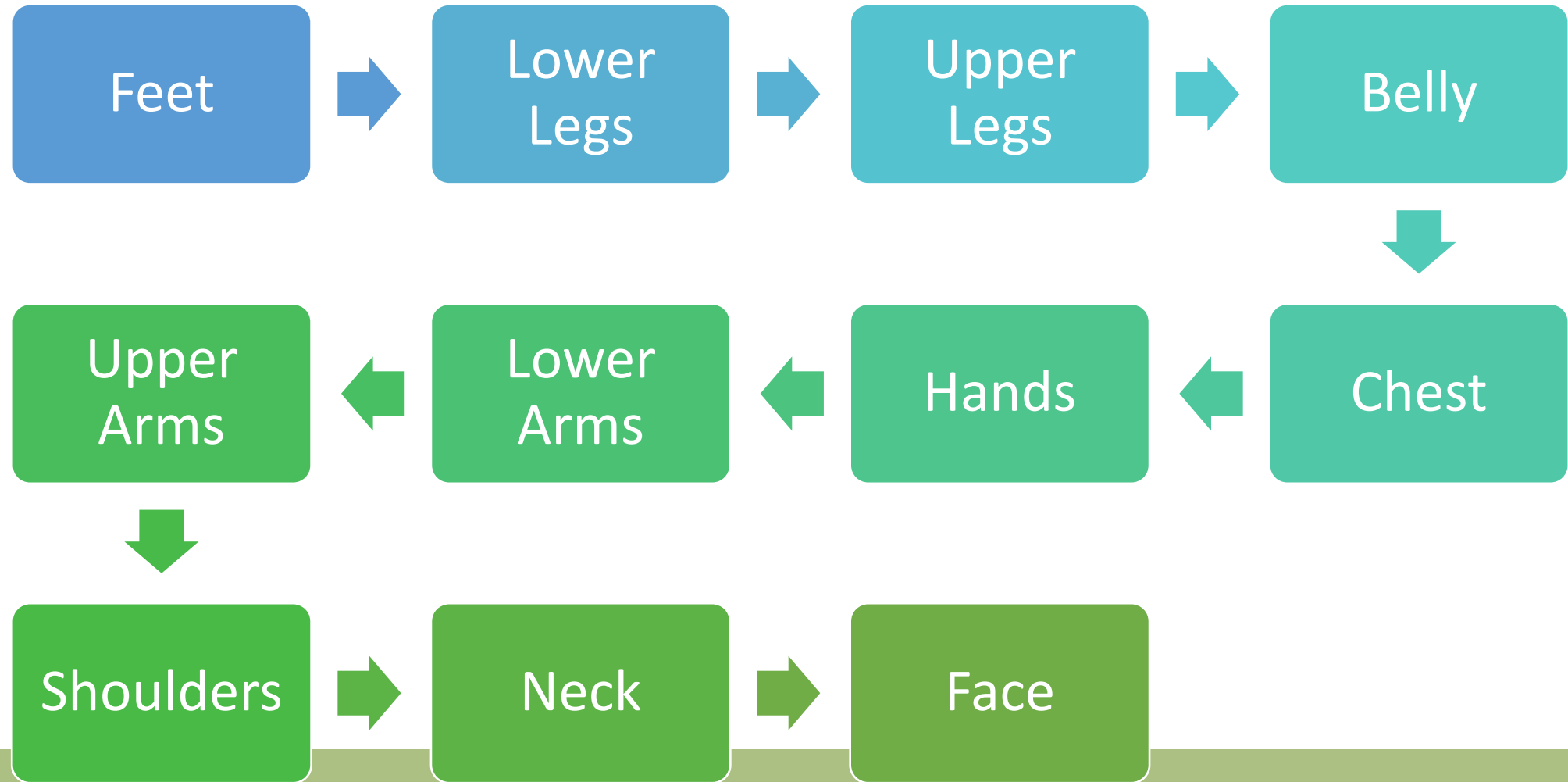


Box Breathing:

Trace the outline of the
box in the air as you
breathe



Progressive Muscle Relaxation



Push-Pull-Dangle



© 2010 mark du toit.
www.marktoon.co.uk

- **Push down** on your chair for 5-10 seconds
- **Pull up** on your chair for 5-10 seconds
- **Dangle** in your chair for 5-10 seconds

Resilience

- “...the process of adapting well in the face of adversity, trauma, tragedy, threats or significant sources of stress.”

APA, “Building Your Resilience” 2020



- The ability to survive and recover from adversity, to “bounce back” or “bounce forward”*
- Requires flexibility, adaptability, persistence, grit
- Dynamic interaction between individual, family, community & system level resilience

**Dr. Connie White, Kentucky Department of Public Health*

Resilience

“Resilience is not a thing or an attribute, but a flow. It moves through the body, and between multiple bodies when they are harmonized.”

-- Resmaa Menakem (2017)



“[T]he resilience of a child is distributed. It’s not just in the child. It’s distributed in their relationships with the many other people who make up their world.”

-- Ann Masten (2014)

“Resilience is my ability to stay related to my challenges.”

-- Thomas Hubl (2021)

Positive Childhood Experiences Study:

JAMA Pediatrics | Original Investigation

Positive Childhood Experiences and Adult Mental and Relational Health

PCEs can mitigate the negative mental health impact of ACEs in adulthood

Dose response: the more (positive) PCEs, the better the adult outcome

PCEs are critical for positive mental health even in the absence of ACEs
The absence of PCEs may result in more negative mental health than the presence of ACEs

How Do People Build Resilience?

Connection

- Prioritize Relationships
- Join a Group
- Accept Help

Wellness

- Care for the Physical Body
- Mindfulness
- Avoid Negative Outlets

Healthy Thinking

- Keep Perspective
- Accept Change
- Optimistic Outlook
- Learn from the Past

Meaning

- Self-Discovery
- Help Others
- Be Proactive
- Make and Work Toward Goals

Resources

- Substance Abuse and Mental Health Services Administration Guidance for Trauma-Informed Approach: https://ncsacw.samhsa.gov/userfiles/files/SAMHSA_Trauma.pdf
- Healthy Outcomes from Positive Experiences <https://positiveexperience.org/>
- Center for Disease Control and Prevention ACEs <https://www.cdc.gov/violenceprevention/aces/>
- Center on the Developing Child at Harvard University <http://developingchild.harvard.edu>
- Child Welfare Information Gateway <https://www.childwelfare.gov>
- National Child Traumatic Stress Network: <https://www.nctsn.org/>
- Kentucky Strengthening Families: <https://chfs.ky.gov/agencies/dph/dmch/ecdb/Pages/kysf.aspx>

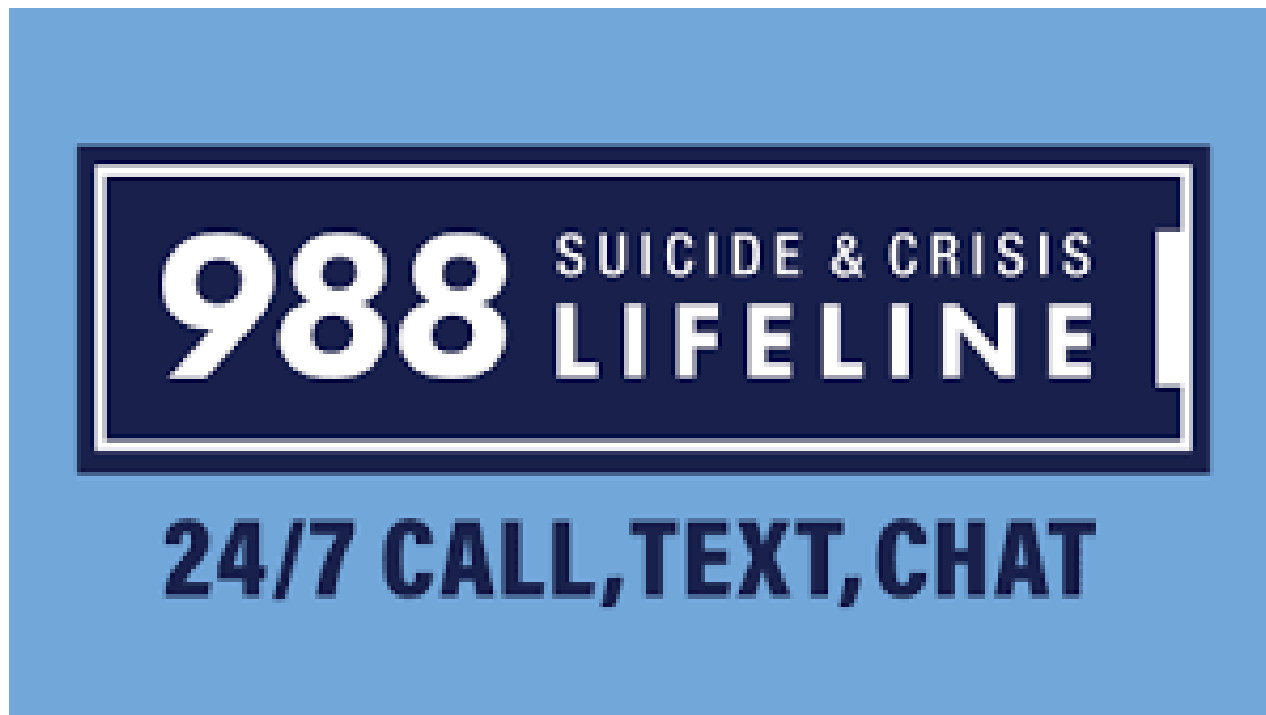
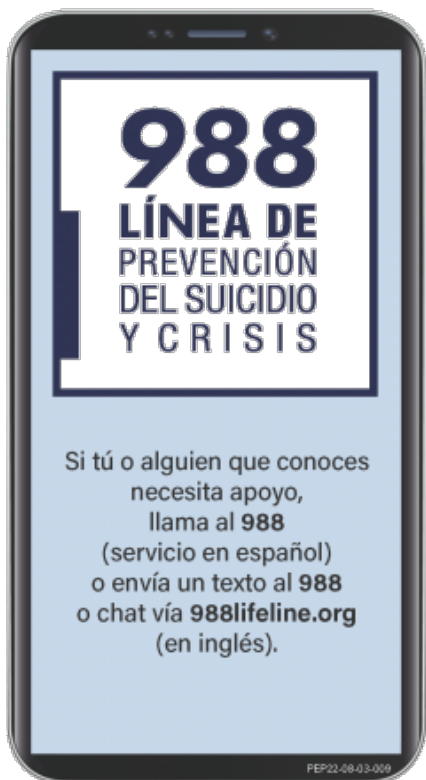


PARTNERSHIP FOR A RESILIENT KENTUCKY

Partnership for a Resilient Kentucky (PaRK) is a network of organizations and individuals to promote positive childhood experiences and resilience across the lifespan and to address the impact of adversity and trauma on individuals, families and communities. PaRK will develop a sustainable path to disseminate and support integration of science and best practices across the commonwealth.



<https://www.resilient-ky.org/>



**Disaster Distress Helpline:
Call or Text
1-800-985-5990**

Deaf & Hard of Hearing
ASL Callers supported by
videophone.

FindNaloxoneNowKY.org



[What are Opioids?](#) [What is Naloxone?](#) [How Do I Use Naloxone?](#) [Overdose Prevention](#) [FAQs](#) [Resources](#)

You Can Reverse Overdose

Reverse overdose. Save lives.
Find naloxone near you.

[Ordering by Mail?](#)

[Ordering for an Agency?](#)

Search for Naloxone by

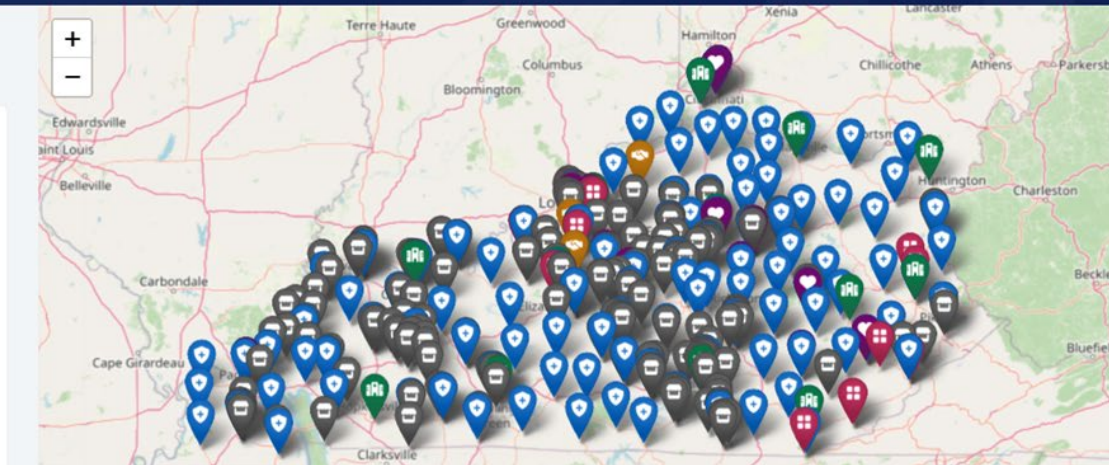
City or Zip County

Search by City or Zip Code

Locations Where Naloxone is Available

Free of Charge

- Community-Based Organizations
- Kiosks and Vending Machines



Support & Helpline Resources

- Kentucky Child Abuse Hotline: 1-877-597-2331
- National Human Trafficking Hotline: 1-888-373-7888/ text: BeFree (233733); <https://humantraffickinghotline.org/>
- Kentucky Association of Sexual Assault Programs: 1-800-656-HOPE; <https://www.kasap.org/>
- Kentucky Coalition Against Domestic Violence: 1-800-799-SAFE; <https://kcadv.org/>
- Kentucky's Regional Community Mental Health Centers: <http://dbhdid.ky.gov/cmhc/default.aspx>

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Department for Behavioral Health, Developmental & Intellectual Disabilities

DBHDID Mission: Promote health and well-being by facilitating recovery for people whose lives have been affected by mental illness and substance use; supporting people with intellectual or other developmental disabilities; and building resilience for all.

DBHDID Vision: All Kentuckians have access to quality services and supports to live full and healthy lives.

DBHDID Values: Choice, Respect, Equity, Excellence, Advocacy, Trauma-Informed & Resilience-Oriented Approaches

Lunch Break

Ask us how you can become a KOHC member and earn CEUs for this meeting!



Kentucky Oral Health Coalition



@KYOralHealth

NOW ACCEPTING PROPOSALS!

KOHC is excited to offer funding support for new or ongoing oral health projects that reach underserved populations in Kentucky.

Proposals due by January 10th, 2025

KOHC



Eradicating Oral Cancer in Eastern Kentucky

Grant funded by the United Health Foundation

Pam Stein, DMD, MPH

Professor, University of Kentucky College of Dentistry

This information was made available by the University of Kentucky College of Dentistry, through its “Eradicate Oral Cancer in Eastern Kentucky” project sponsored by the United Health Foundation (UHF).

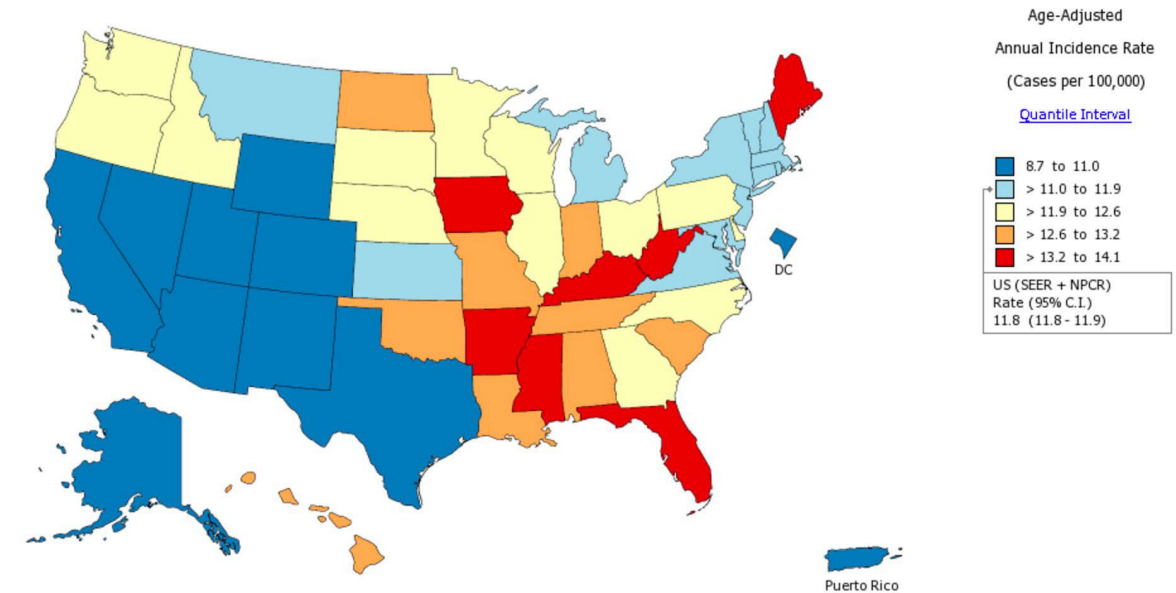
Oral/Pharyngeal Cancer Incidence

States with the highest incidence rates of oral/pharyngeal cancer

1. Kentucky 14.1
2. Arkansas 13.8
3. West Virginia 13.7
3. Florida 13.7

U.S. average 11.8 per 100,000

Oral Cavity & Pharynx, 2013 - 2017
All Races (includes Hispanic), Both Sexes, All Ages



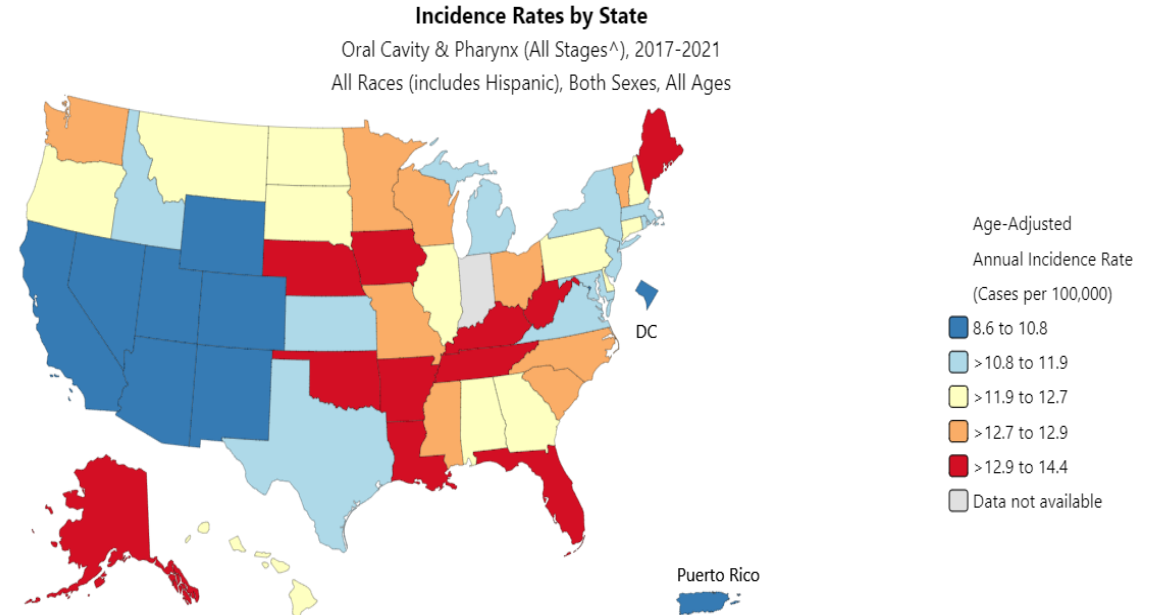
Notes:
Note: Alaska, DC, Hawaii and Puerto Rico are not drawn to scale.
[State Cancer Registries](#) may provide more current or more local data.
Data presented on the State Cancer Profiles Web Site may differ from statistics reported by the State Cancer Registries ([for more information](#)).
† Incidence rates (cases per 100,000 population per year) are age-adjusted to the [2000 US standard population](#) (19 age groups: <1, 1-4, 5-9, ..., 80-84, 85+). Rates are for invasive cancer only (except for bladder which is invasive and in situ) or unless otherwise specified. Rates calculated using SEER*Stat. Population counts for denominators are based on Census populations as modified by NCI. The [1969-2017 US Population Data](#) File is used for SEER and NPCR incidence rates.
Rates are computed using cancers classified as malignant based on ICD-O-3. For more information see [malignant.html](#).
◊ [Data not available](#) for this combination of geography, statistic, age and race/ethnicity.
Data for the United States does not include data from Puerto Rico

Oral/Pharyngeal Cancer Incidence

States with the highest incidence rates of oral/pharyngeal cancer (per 100,000 people).

1. Iowa 14.4
2. West VA 14.4
3. Florida 14.2
4. Maine 14.1
5. Kentucky 14.0

U.S. average 11.8 per 100,000



Created by statecancerprofiles.cancer.gov on 11/18/2024 3:21 pm.

[State Cancer Registries](#) may provide more current or more local data.

[†] Incidence rates (cases per 100,000 population per year) are age-adjusted to the [2000 US standard population](#) (19 age groups: <1, 1-4, 5-9, ... , 80-84, 85+). Rates are for invasive cancer only (except for bladder cancer which is invasive and in situ) or unless otherwise specified. Rates calculated using SEER*Stat. Population counts for denominators are based on Census populations as modified by NCI. The [US Population Data](#) File is used for SEER and NPCR incidence rates.

[‡] Incidence data come from different sources. The Average Annual Percent Change (AAPC) is based on the APCs calculated by Joinpoint. Due to data availability issues, the time period used in the calculation of the joinpoint regression model may [differ](#) for selected counties.

Comparing Oral/Pharyngeal Cancer Incidence

Highest incidence 2013-2017

1. Kentucky 14.1
2. Arkansas 13.8
3. West Virginia 13.7
3. Florida 13.7

Highest incidence 2017-2021

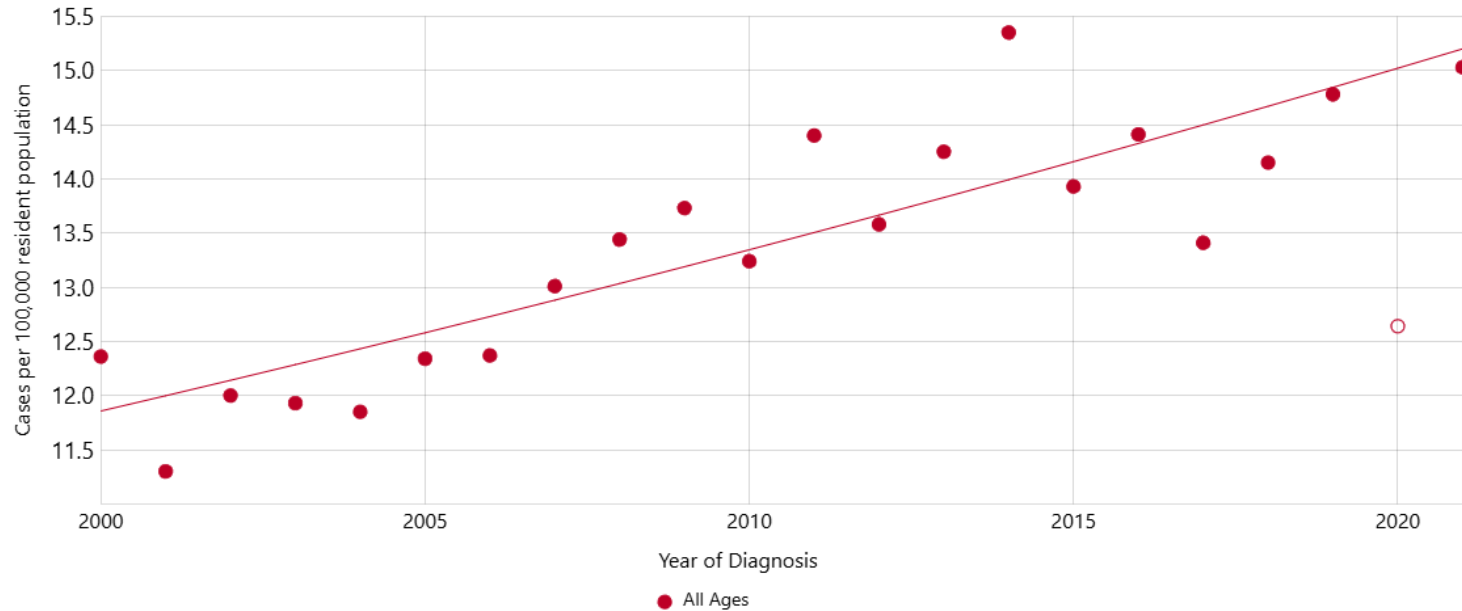
1. Iowa 14.4
2. West VA 14.4
3. Florida 14.2
4. Maine 14.1
5. Kentucky 14.0

Historical Trends

Incidence, Kentucky

Oral Cavity & Pharynx, All Races (incl Hisp)

Both Sexes, All Ages



Notes:

Created by statecancerprofiles.cancer.gov on 12/06/2024 2:35 pm.

Regression lines calculated using the Joinpoint Regression Program (Version 5.1)

The 2020 incidence rate is displayed but not used in the fit of the trend line(s). Impact of COVID on SEER Cancer Incidence 2020 data.

Source: Incidence data provided by the SEER Program.

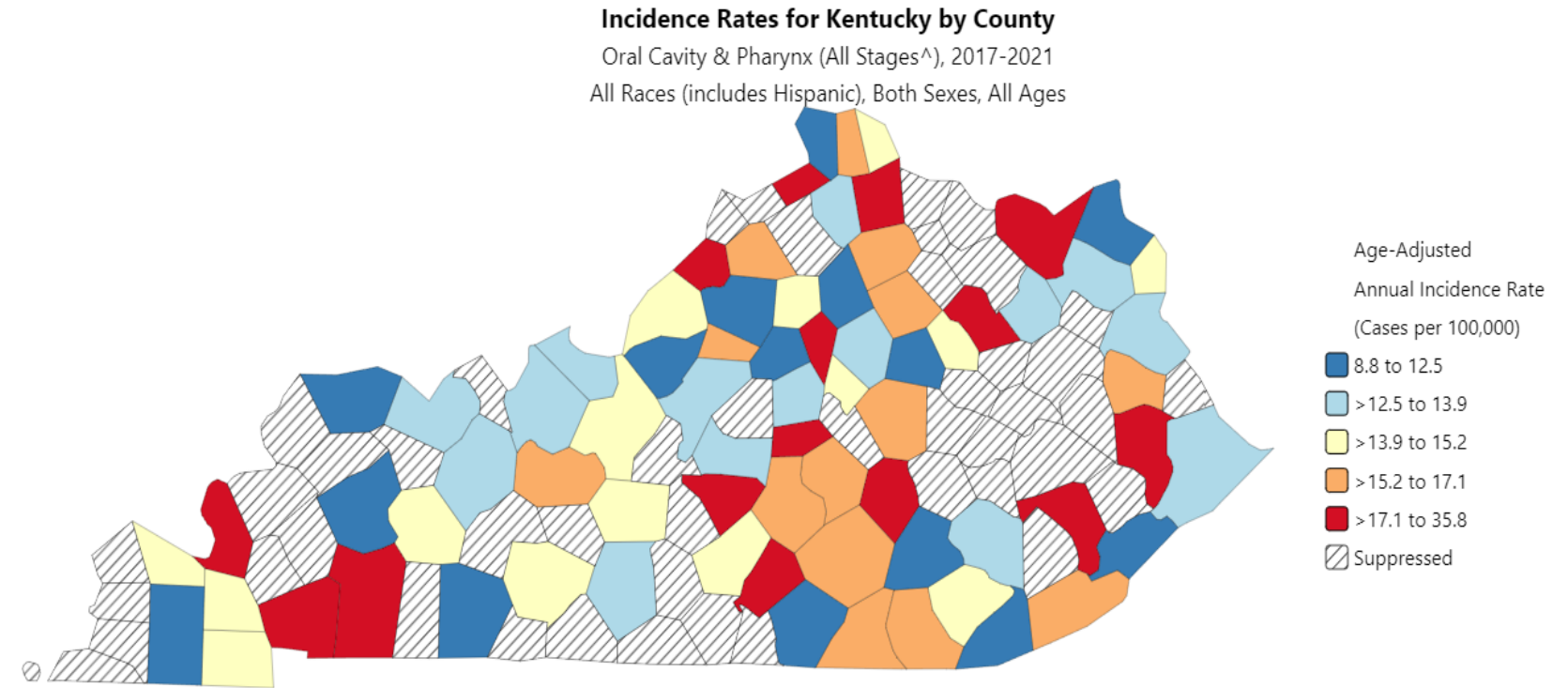
Rates calculated by the National Cancer Institute using SEER*Stat. Rates are age-adjusted to the 2000 US standard population (19 age groups: <1, 1-4, 5-9, ... , 80-84, 85+). Rates are for invasive cancer only (except for bladder cancer which is invasive and in situ) or unless otherwise specified. Population counts for denominators are based on Census populations as modified by NCI. The US populations included with the data release have been adjusted for the population shifts due to hurricanes Katrina and Rita for 62 counties and parishes in Alabama, Mississippi, Louisiana, and Texas. The US Population Data File is used with SEER data. Rates and trends in this graph are computed using the same standard for malignancy. For more information see malignant.html

Due to data availability issues, the time period used in the calculation of the joinpoint regression model may differ for selected racial groups or counties.

County Rankings Both Sexes, All Ages, All Races (per 100,000 people)

1. Gallatin 35.8
2. Livingston 24.3
3. Lewis 23.6
4. Bath 21.7
5. Pendleton 21.0

KY Incidence Rate = 14.0



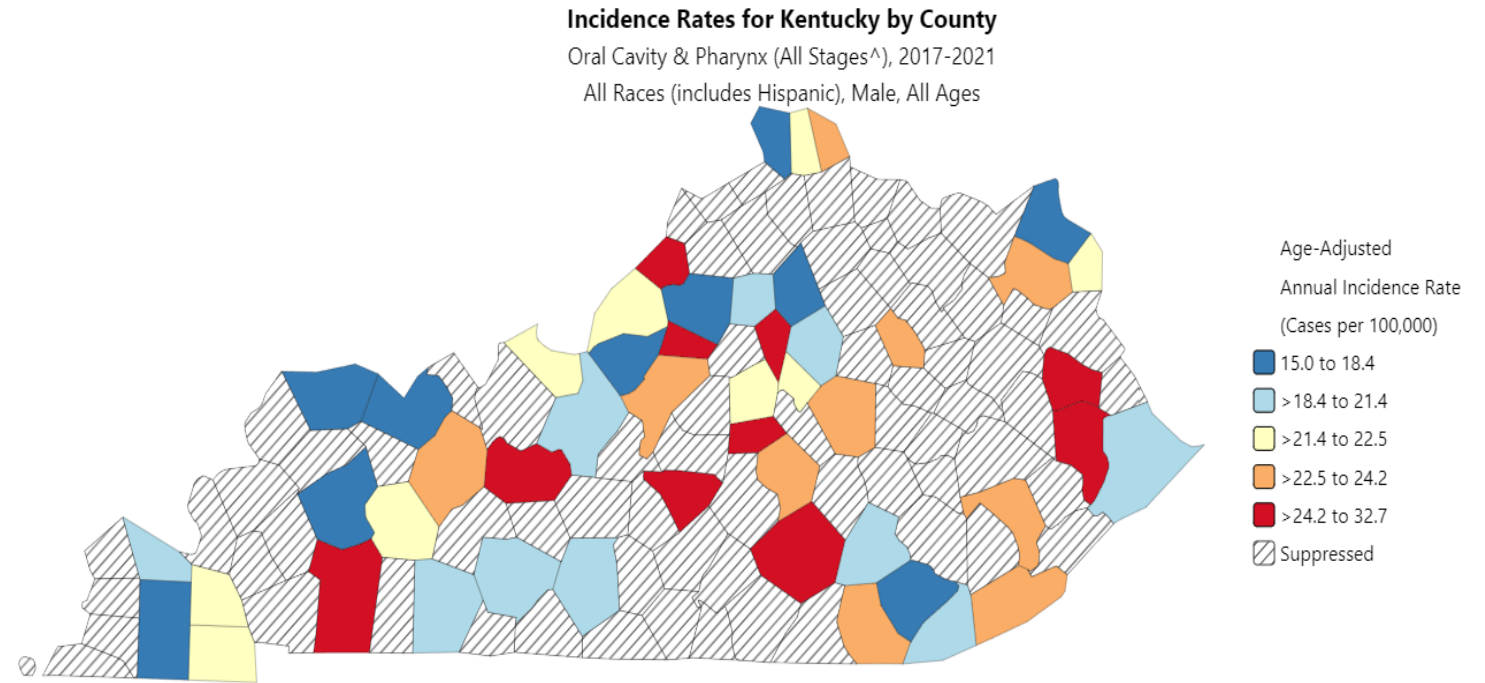
Created by statecancerprofiles.cancer.gov on 11/18/2024 11:30 am.

County Rankings **Males All Ages**

(per 100,000 people)

1. Woodford 32.7
2. Taylor 32.3
3. Spencer 29.7
4. Boyle 28.9
5. Christian 28.7

KY Incidence Rate = 14.0



Created by statecancerprofiles.cancer.gov on 11/18/2024 3:48 pm.

[State Cancer Registries](#) may provide more current or more local data.

⁺ Incidence rates (cases per 100,000 population per year) are age-adjusted to the [2000 US standard population](#) (19 age groups: <1, 1-4, 5-9, ... , 80-84, 85+). Rates are for invasive cancer only (except for bladder cancer which is invasive and in situ) or unless otherwise specified. Rates calculated using SEER*Stat. Population counts for denominators are based on Census populations as modified by NCI. The [US Population Data](#) File is used for SEER and NPCR incidence rates.

[‡] Incidence data come from different sources. The Average Annual Percent Change (AAPC) is based on the APCs calculated by Joinpoint. Due to data availability issues, the time period used in the calculation of the joinpoint regression model may [differ](#) for selected counties.

County Rankings **Females All Ages**

(per 100,000 people)

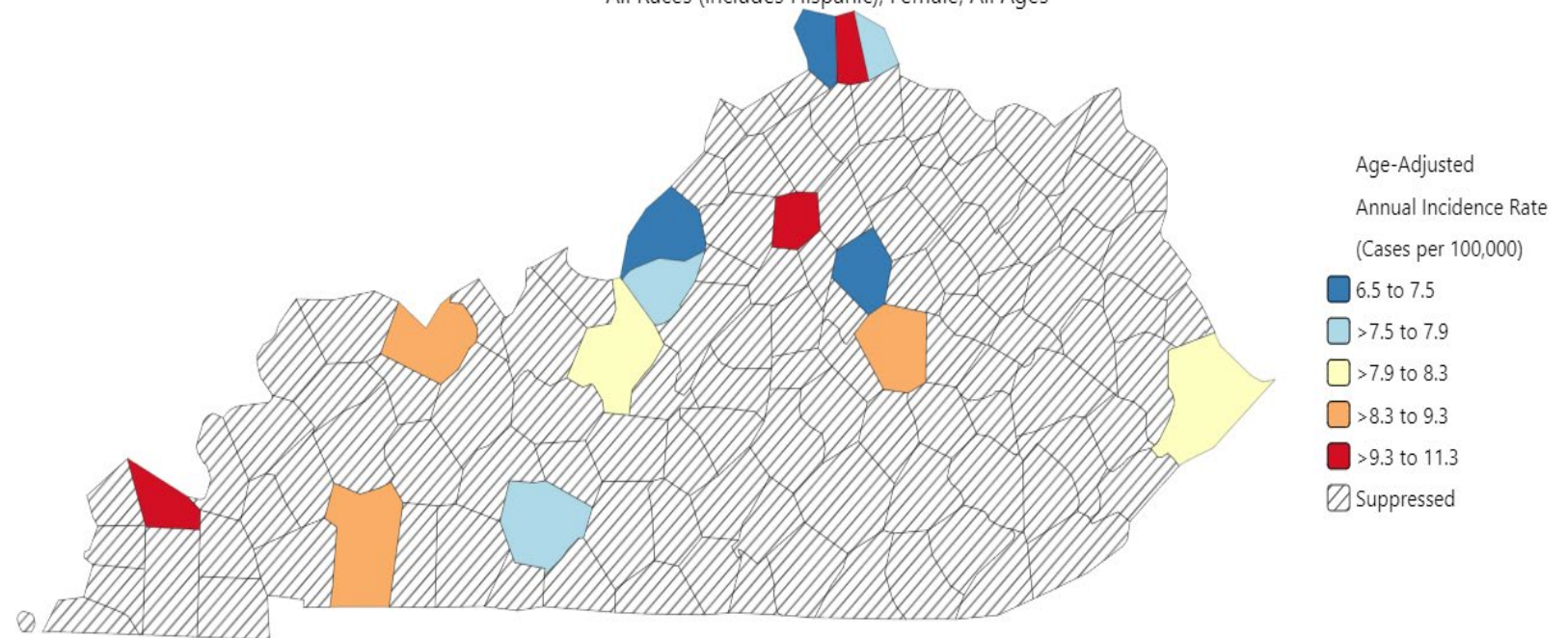
1. McCracken 11.3
2. Kenton 10.4
3. Franklin 9.7

KY Incidence Rate = 14.0

Incidence Rates for Kentucky by County

Oral Cavity & Pharynx (All Stages^), 2017-2021

All Races (includes Hispanic), Female, All Ages



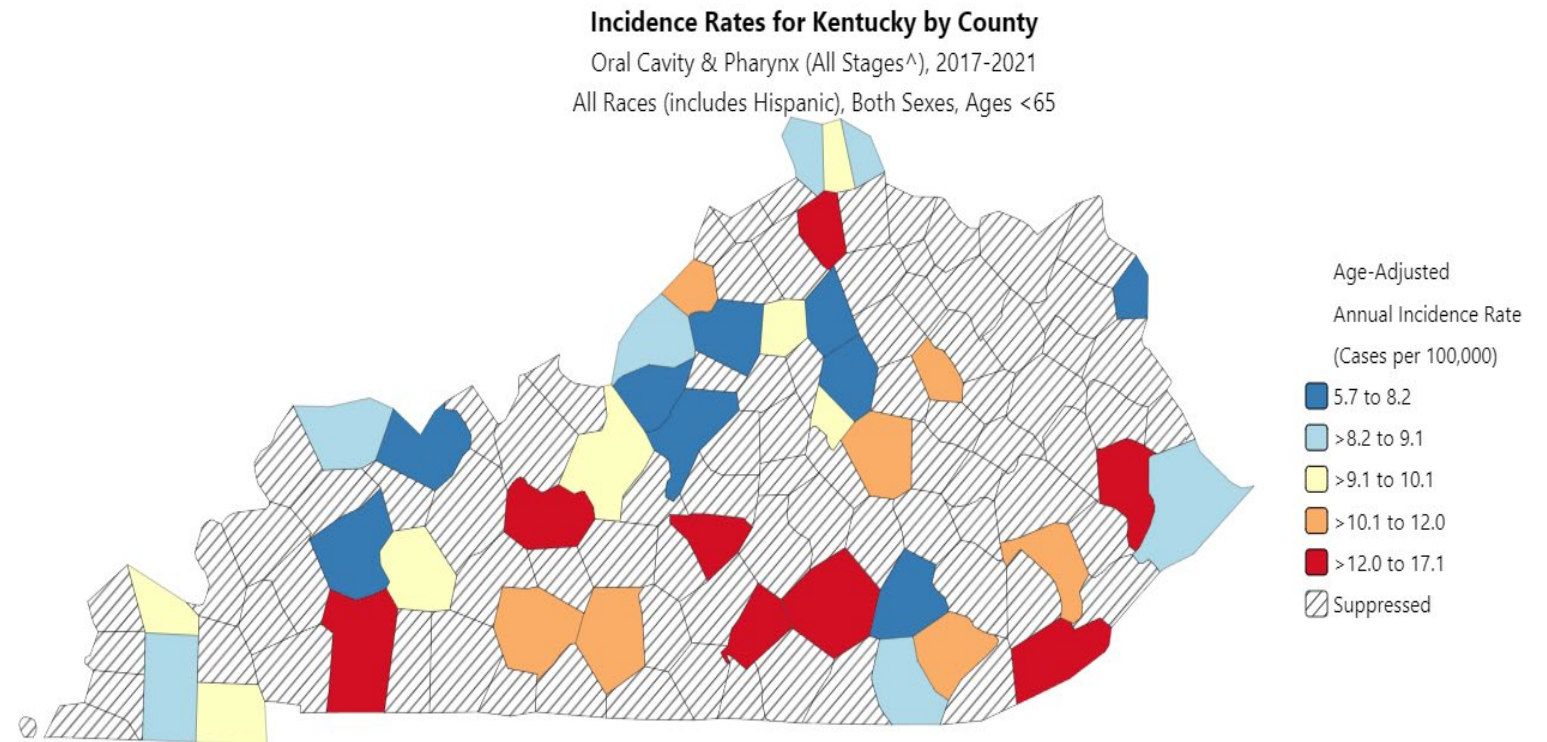
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County Rankings **Under Age 65**

(per 100,000 people)

1. Russell 17.0
2. Taylor 13.8
3. Grant 13.6
4. Floyd 13.6

KY Incidence Rate = 14.0



Created by statecancerprofiles.cancer.gov on 11/18/2024 2:01 pm.

<https://statecancerprofiles.cancer.gov/map/map.withimage.php?21&county&006&003&00&0&01&0&1&5&0#results>

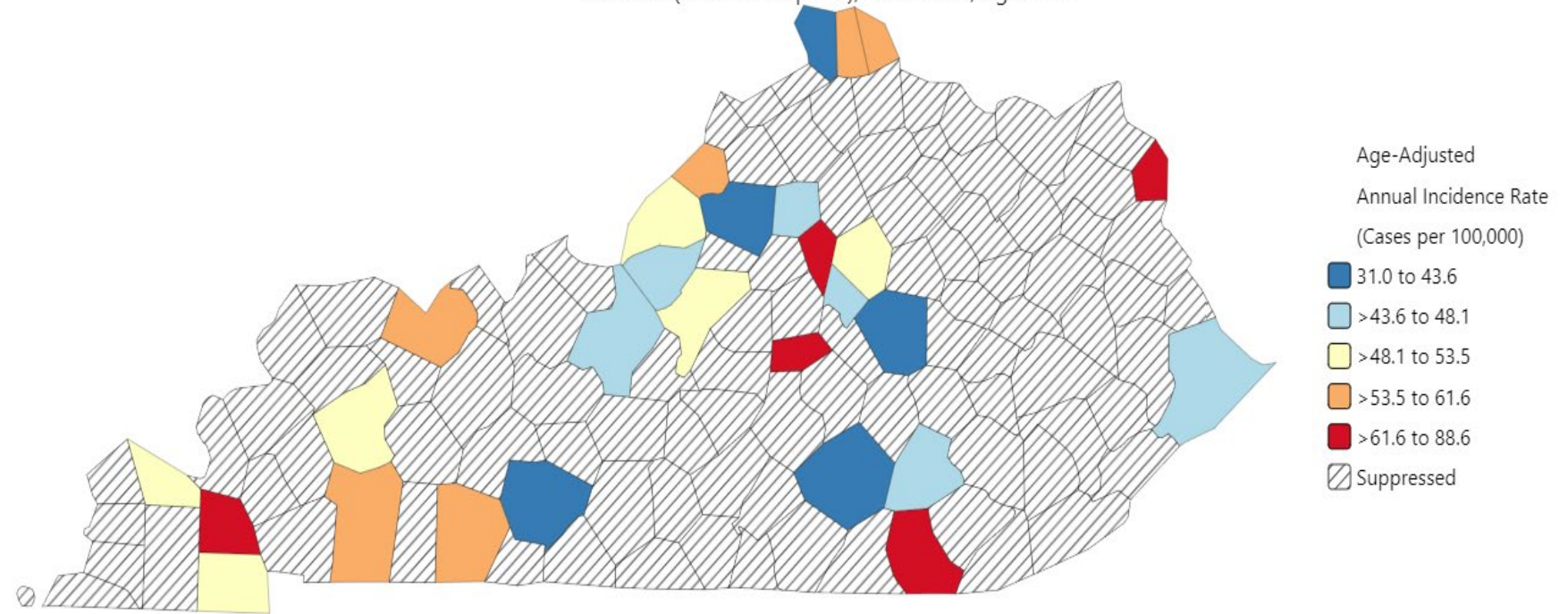
County Rankings **Over Age 65**

(per 100,000 people)

1. Woodford 88.6
2. Marshall 72.2
3. Boyle 67

KY Incidence Rate = 14.0

Incidence Rates for Kentucky by County
Oral Cavity & Pharynx (All Stages[^]), 2017-2021
All Races (includes Hispanic), Both Sexes, Ages 65+



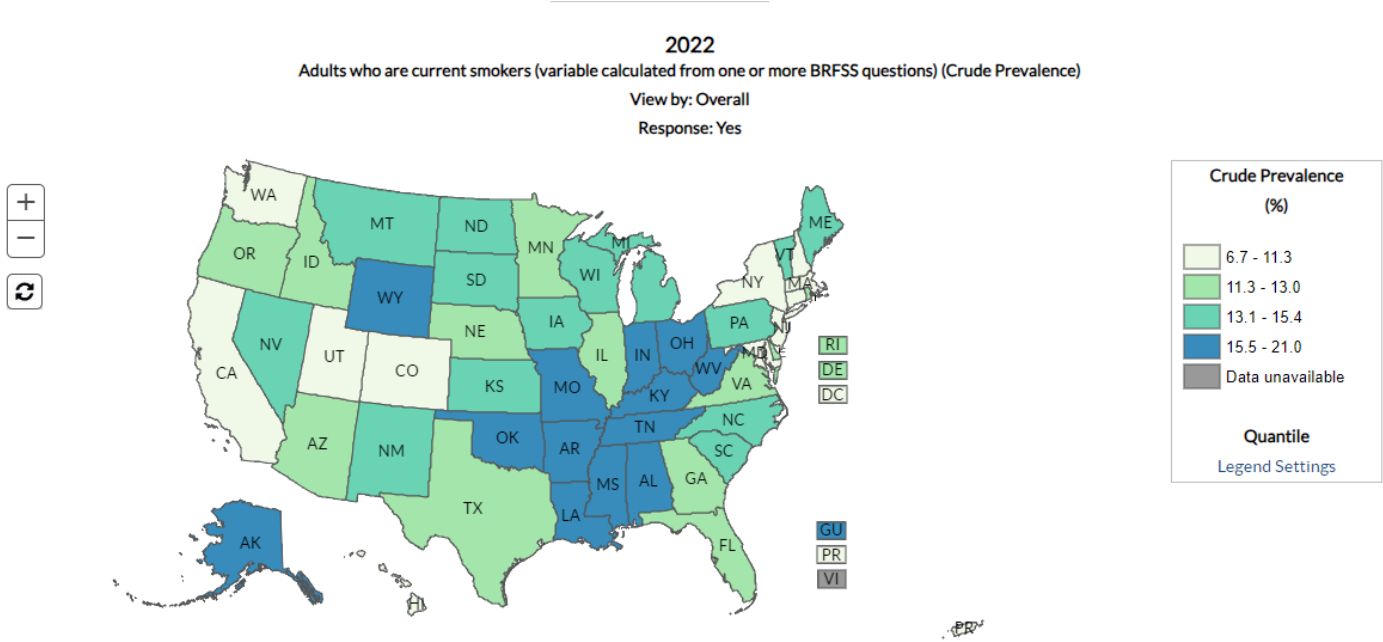
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<https://statecancerprofiles.cancer.gov/map/map.withimage.php?21&county&157&003&00&0&01&0&1&5&0#results>

Main Risk Factors for Oral/Pharyngeal Cancer

- Tobacco (anterior oral cavity)
- Alcohol (anterior oral cavity)
- Human Papilloma Virus HPV (posterior oral cavity)

Kentucky Ranks High in Adult Smoking



2022 data from Behavior Risk Factor Surveillance System and CDC

% of Adult Population Who Smoke

1. West Virginia 21%
2. Arkansas 18.7%
3. Tennessee 18.5%
4. Kentucky 17.4%

Footnote
* Prevalence estimate not available if the unweighted sample size for the denominator was < 50 or the Relative Standard Error (RSE) is > 0.3 or if the state did not collect data for that calendar year.
** ** Median value reported with no confidence intervals.
Data Source: Behavioral Risk Factor Surveillance System (BRFSS)

Kentucky was Ranked Least-Healthy State for Tobacco Use among Youth in 2015 but is now 36th.

The screenshot displays the 'America's Health Rankings' website interface. At the top, there are dropdown menus for 'MEASURED:' (Tobacco Use-Youth), 'POPULATION:' (General), and 'STATE:' (KY). Below these are two tabs: 'ABOUT TOBACCO USE-YOUTH' and 'TOBACCO USE-YOUTH IN KENTUCKY'. The main content area is titled 'Public Health Impact: Tobacco Use-Youth' and features a light blue header 'Tobacco Use-Youth'. The data presented includes: U.S. Value: 5.1%; Healthiest State: Hawaii: 3.4%; Least-healthy State: Kentucky: 9.6%. A definition states: 'Percentage of children ages 12-17 who used a tobacco product in the past month'. The data source is cited as 'SAMHSA, National Survey on Drug Use and Health, 2015-2016'. A suggested citation is provided: 'America's Health Rankings analysis of SAMHSA, National Survey on Drug Use and Health, United Health Foundation, AmericasHealthRankings.org, Accessed 2019.' A left sidebar contains navigation options: LEARN, EXPLORE, ABOUT, and SEARCH.

In the 2023 Kentucky Youth Behavior Survey:

Over 40% of Kentucky youth ages 15-18 had used a vaping device.

23% of 11-14 Kentucky youth had used a vaping device.

SAVE A LIFE IN 30 SECONDS

Kentucky has the **highest** rate of oral cancer in the nation. Most cases are found late when survival rates are low.

You can help by performing a **30-second** oral cancer screening on your patients during their appointment.

If you find a suspicious lesion, contact your local oral surgeon or Dr. Melvyn Yeoh, Director of the UK College of Dentistry's "Eradicate Oral Cancer in Eastern Kentucky" grant. Dr. Yeoh may be reached at 646-573-3411.



Scan to watch a video on how to
perform an oral cancer exam.



Alcohol and Tobacco – The WORST

Alcohol and tobacco remain the greatest risk factors and in combination they increase the risk for oral cancer **15 times more than the individual risk factors of alcohol or tobacco alone.**

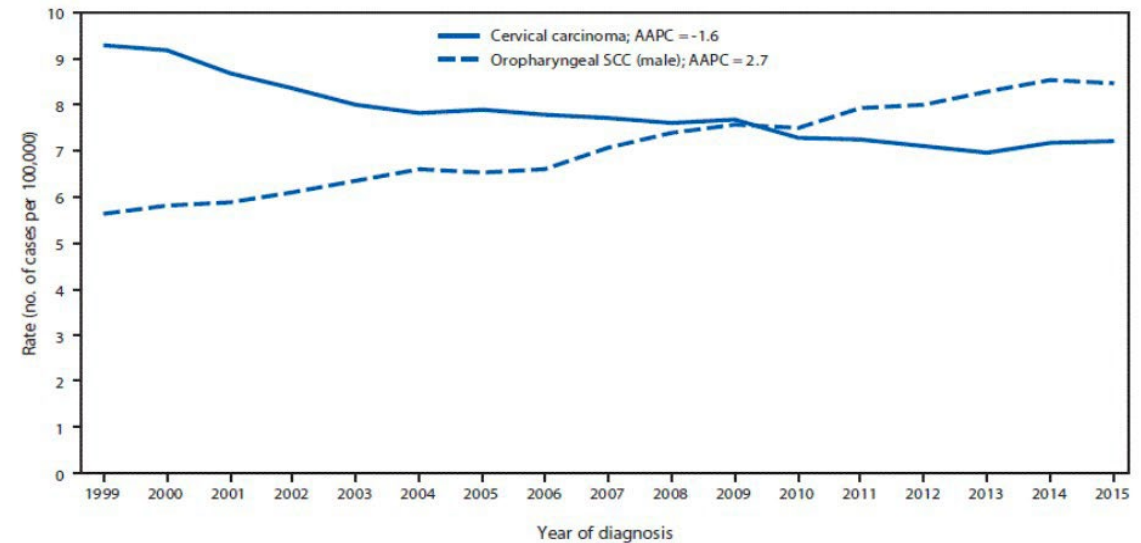
Combining the two has a synergistic - more than additive - effect

<https://www.aaoms.org/media/raise-oral-cancer-awareness/fact-sheets>

HPV: Human Papilloma Virus as a Risk Factor

Oropharyngeal cancer became the most common type of HPV related cancer in 2010.

Trends in age-adjusted incidence of cervical carcinoma among females and oropharyngeal SCC among men, — U.S., 1999–2015



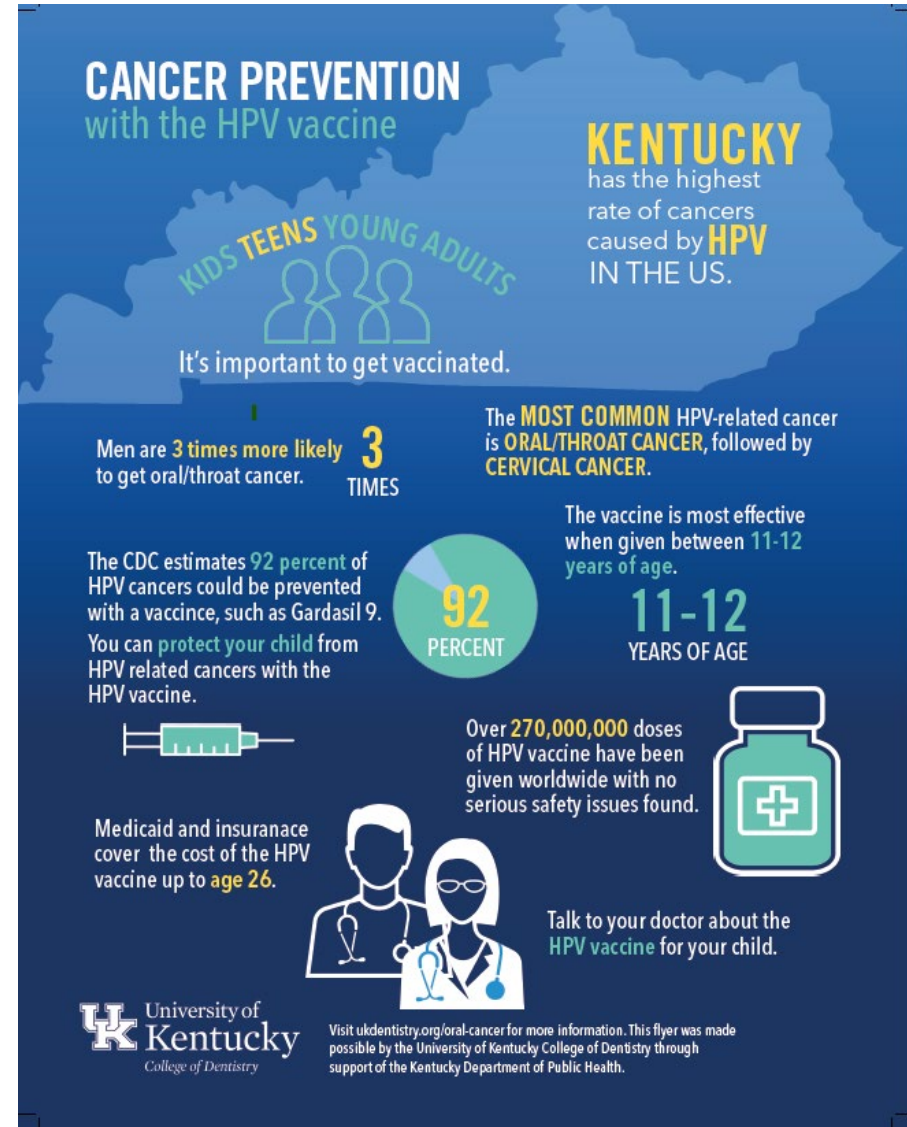
Kentucky Has the Highest Rate of HPV Related Cancers in the U.S.

Source: KCR; NCI SEER*STAT

HPV Vaccine

Years of safety testing

- No serious safety concerns
- 270,000,000 vaccinated since 2006
- 92% effective
- Sustained protection



CANCER PREVENTION
with the HPV vaccine

KENTUCKY
has the highest
rate of cancers
caused by **HPV**
IN THE US.

KIDS TEENS YOUNG ADULTS
It's important to get vaccinated.

Men are **3 times more likely** **3**
to get oral/throat cancer. **TIMES**

The **MOST COMMON** HPV-related cancer
is **ORAL/THROAT CANCER**, followed by
CERVICAL CANCER.

The CDC estimates **92 percent** of
HPV cancers could be prevented
with a vaccine, such as Gardasil 9.
You can **protect your child** from
HPV related cancers with the
HPV vaccine.


92
PERCENT

The vaccine is most effective
when given between **11-12**
years of age.
11-12
YEARS OF AGE

Over **270,000,000** doses
of HPV vaccine have been
given worldwide with no
serious safety issues found.

Medicaid and insurance
cover the cost of the HPV
vaccine up to **age 26**.

Talk to your doctor about the
HPV vaccine for your child.

 University of
Kentucky
College of Dentistry

Visit ukdentistry.org/oral-cancer for more information. This flyer was made possible by the University of Kentucky College of Dentistry through support of the Kentucky Department of Public Health.

HPV Vaccine Target age 11-12

Approved for boys and girls 9 years old and older

Previously recommended for up to 21 in males and 26 in females

Now approved up to age 45

TABLE 2

HPV Vaccine Dosing Schedules Based on Age

Age (males and females)	Doses	Schedule
9-14 y*	2-dose series†	Dose 1: 0 mo Dose 2: 6-12 mo
15-26 y	3-dose series	Dose 1: 0 mo Dose 2: 1-2 mo Dose 3: 6 mo

*Populations with primary or secondary immunocompromising conditions should receive the 3-dose series regardless of age.

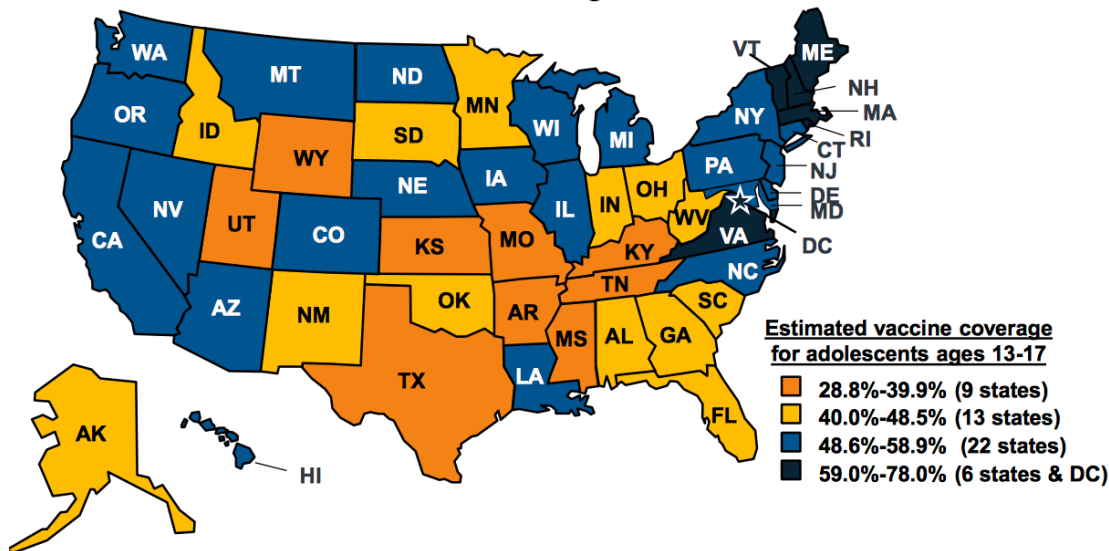
Kentucky Improves from Lowest Quartile for HPV Vaccine to Second Lowest Quartile

Figure 4

HPV Vaccination Rates of Adolescents, by State

Adolescents ages 13-17 with HPV Up-To-Date (UTD) Vaccination Series, 2017

2017 US Average = 48.6%



NOTES: HPV UTD includes those with ≥ 3 doses, and those with 2 doses when the first HPV vaccine dose was initiated before age 15 years and time between the first and the second dose was at least 5 months minus 4 days.
SOURCE: CDC. (2018). National, Regional, State, Selected Local Area Vaccination Coverage Among Adolescents Aged 13-17 Years—United States, 2017. *MMRW* 67(33).

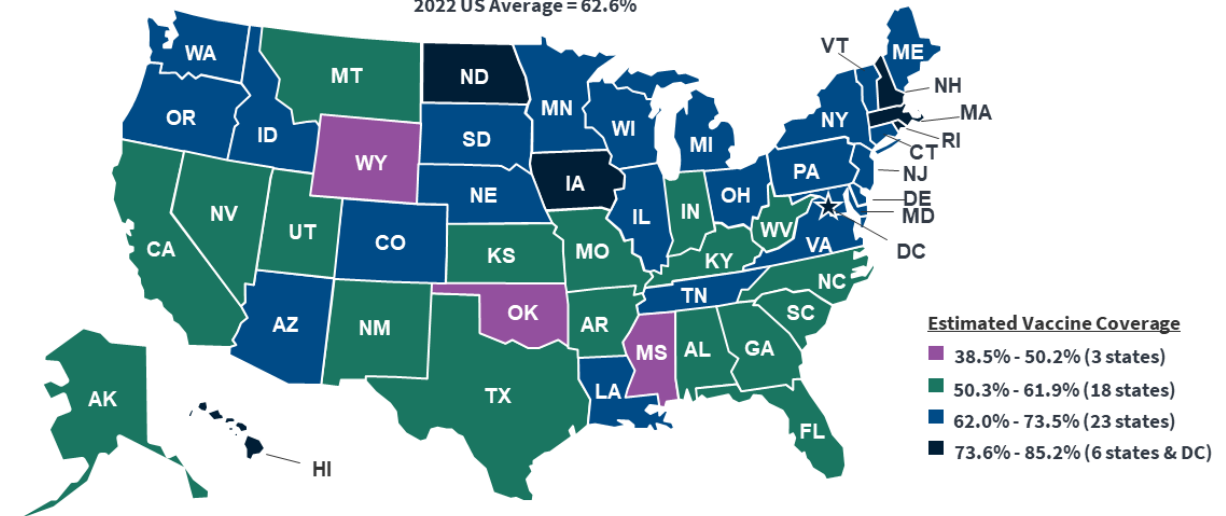


Figure 3

HPV Vaccination Rates of Adolescents by State

Adolescents Ages 13-17 with Up-to-Date (UTD) HPV Vaccination Series, 2022

2022 US Average = 62.6%



NOTE: HPV UTD includes those with ≥ 3 doses, and those with 2 doses when the first HPV vaccine dose was initiated before age 15 years and there was at least 5 months minus 4 days between the first and second dose.
SOURCE: CDC, Vaccination Coverage Among Adolescents Aged 13-17 Years – National Immunization Survey – Teen, United States, 2022. *MMRW* 72(34).



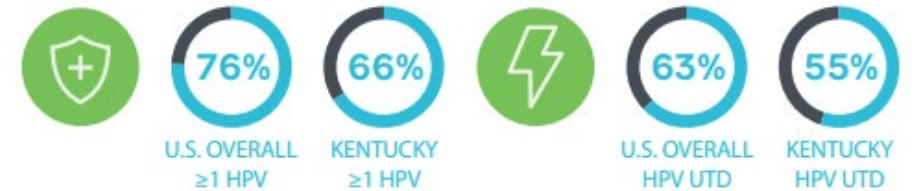
<http://files.kff.org/attachment/fact-sheet-the-hpv-vaccine-access-and-use-in-the-u-s>

HPV Vaccination Rates as Reported to KYIR 17 Year Old Males as of August 2019



Data from Kentucky Immunization Registry Accessed November 19, 2024 at <https://www.chfs.ky.gov/agencies/dph/dehp/imm/AdolescentDataAnalysisinKYIR.pdf>

HPV VACCINATION RATES FOR 13-17 YEAR-OLDS AS OF 2022:



Data from St Judes HPV Cancer Prevention Program Accessed November 19, 2024 at [pbf-kentucky-state-profile-2023.pdf](https://www.pbf-kentucky-state-profile-2023.pdf)

Median Age at Diagnosis is 63

BUT....

The ***fastest growing segment of the oral cancer population*** is people under the age of 50 who do not smoke.

Exposure to the human papilloma virus (HPV) may explain the rise in oral cancer in younger people.

Early Detection: Patient's Role

The American Association of Oral and Maxillofacial Surgeons recommends that all adults conduct an oral cancer self-exam once per month.

<https://www.aaoms.org/media/raise-oral-cancer-awareness/videos>

Oral Cancer Self-Exam

Early detection is key.

Perform this 6-step oral cancer self-exam each month using a bright light and a mirror:

- 1 Remove any dentures.
- 2 Look and feel inside your lips and the front of your gums.
- 3 Tilt your head back to inspect and feel the roof of your mouth.
- 4 Pull your cheek out to inspect it and the gums in the back.
- 5 Pull out your tongue and look at its top and bottom.
- 6 Feel for lumps or enlarged lymph nodes (glands) in both sides of your neck, including under the lower jaw.

Regular self-exams increase the chance of identifying changes or new growths early.

Be on alert for

Don't ignore any suspicious lumps or sores. Should you discover something, make an appointment for a prompt examination.

- Difficulty in chewing or swallowing.
- A mass or lump in the neck.
- Chronic sore throat or hoarseness.
- Erythroplakia: Red patches of the oral tissues.
- Erythroleukoplakia: Red and white patches of the oral tissues.
- Leukoplakia: White patches of the oral tissues.
- A sore that fails to heal and bleeds easily.
- An abnormal lump or thickening of tissues.

80%–90% survival rate when oral cancers are found at early stages of development.

The earlier the cancer is detected, the easier the treatment, and the greater the chance of a cure.

Learn more at: [MyOMS.org/OralCancerAwareness](https://www.aaoms.org)

WHAT HAPPENS TO
Your Body
WHEN YOU
QUIT TOBACCO

I QUIT!

20 MINUTES

- Blood pressure decreases
- Pulse rate drops
- Body temperature of hands and feet increases

8 HOURS

- Carbon monoxide level in blood drops to normal
- Oxygen level in blood increases to normal (if no lung disease)

24 HOURS

- Chance of a heart attack decreases

48 HOURS

- Nerve endings start regrowing
- Sense of smell and sense of taste improve

2-12 WEEKS

- Circulation improves
- Walking becomes easier
- Lung function improves

4-36 WEEKS

- Coughing, sinus congestion, tiredness, and shortness of breath decrease

1 YEAR

- Risk of coronary heart disease decreases to half that of smokers

5 YEARS

- From five to 15 years after quitting, stroke risk is the same as people who never smoked

10 YEARS

- Risk of cancer drops to half that of smokers
- Risk of ulcer decreases

15 YEARS

- Risk of coronary heart disease is the same as people who have never smoked
- Risk of death is the same as people who have never smoked



Quit Now Kentucky Fax Form
Fax to: **1-800-261-6259**

PROVIDER INFORMATION (PRINT CLEARLY)
Feedback will only be sent to HIPAA covered entities to either the fax number or email listed below.

Provider First Name _____ Provider Last Name _____
 Contact (if applicable): First Name _____ Last Name _____
 Name of Health System/Hospital/Health Center/Community Organization: _____
 Department or Clinic Name (if applicable): _____
 Address _____ City _____ State _____ Zip _____
 Phone (____) _____-____ Email for HIPAA-covered entity: _____
 Fax for HIPAA covered entity (____) _____-____
 Type of HIPAA covered entity: Health care Provider Health Plan Health care Clearing House Not Covered Entity
As a HIPAA covered entity you are authorized to receive personal health information for the individual being referred.
 As a Not Covered Entity, personal health information will not be shared back for the individual being referred.
 Provider consent is required to provide nicotine replacement therapy (NRT) to individuals who are pregnant or breast feeding.
 Is the patient: Pregn Breastfeeding
 (If Provider) I authorize the Quitline to send the patient over-the-counter nicotine replacement therapy.
 Please sign here if patient may use NRT _____ Date _____

Provider signature

PATIENT INFORMATION (*Required) (PRINT CLEARLY)

*Patient Name (First) _____ (Last) _____
 Patient Zip _____ *Date of Birth: ____/____/____
 *Phone (____) _____-____ Home Cell Work OK to leave message at number provided? Yes No
 *Do you require accommodation while participating in the program such as TTY, Translator or Relay Service?
 Yes, If Yes, please specify _____ No THE VOICEMAIL MAY BE A RECORDING FROM AN AUTODIALER.
Consent of Text: Yes No
 I consent to receiving text messages with motivational messages and other program events, such as appointment reminders, medication shipments, and quit anniversaries.
 *Language? English Spanish Other _____

I, the patient (or authorized representative), give permission to release my information to Quit Now Kentucky. The purpose of this release is to request an initial phone call to discuss my interest and participation in the tobacco cessation program and allow communication with the provider identified on this form. I may revoke this authorization at any time in writing, but if I do, it will have no effect on actions taken prior to receiving the revocation.

*Patient Signature _____ Date _____
 If filling out form on behalf of the patient:
 Authorized Representative name: (First) _____ (Last) _____
 Signature _____ Date _____

*Participant or Authorized Representative signature required in order to place phone call to the patient.

PLEASE FAX COMPLETED FORM TO: 1-800-261-6259

Confidentiality Notice: This facsimile contains confidential information. If you have received this in error, please notify the sender immediately by telephone and confidentially dispose of the material. Do not review, disclose, copy or distribute.

Oral Cancer Resources

Open access resources supporting oral cancer education provided by the United Health Foundation's Grant on Eradicating Oral Cancer in Eastern Kentucky

- Home
- Exam/Diagnosis
- Prevention
- Treatment
- Videos**
- Articles
- HPV
- Tobacco Cessation
- Patient Resources
- Guidelines
- Books

Navigation

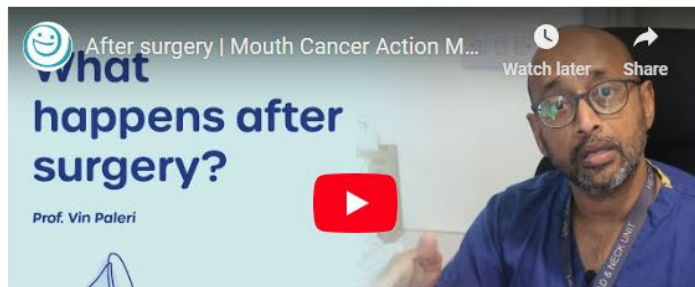


Oral Cancer Treatment Videos

A video from the Cleveland Clinic where a clinical oncologist explains how oral cancer is treated.



An oral surgeon explains generally what patients can expect after surgery for mouth cancer.



Health Sciences Librarian



Rebecca Morgan

She/Her/Hers

[Email Me](#)

[Schedule Appointment](#)

Contact:

780 Rose Street
M72S Med Center
Library
Willard Medical
Education Building
Lexington, KY 40536
859-323-6181



Thank You!

Contact me

Pam Stein

pstei2@uky.edu



The *Other* Oral Cancers:

Metastatic Malignancies of the Oral Cavity

Jennie Ison, DMD

Diplomate, American Board of Oral and Maxillofacial Pathology

Fellow, American Academy of Oral and Maxillofacial Pathology

Division Chief and Assistant Professor, Oral Pathology

Lab Director, UKCD Oral Pathology Laboratory

Conflict of Interest: None

- Neither I, nor my immediate family, have a financial interest that would create a conflict of interest or restrict my independent judgement with regard to the content of this course.



- “Participants should be cautioned about the potential risks of using limited knowledge when integrating new techniques into their practice.”

Plan For Today:

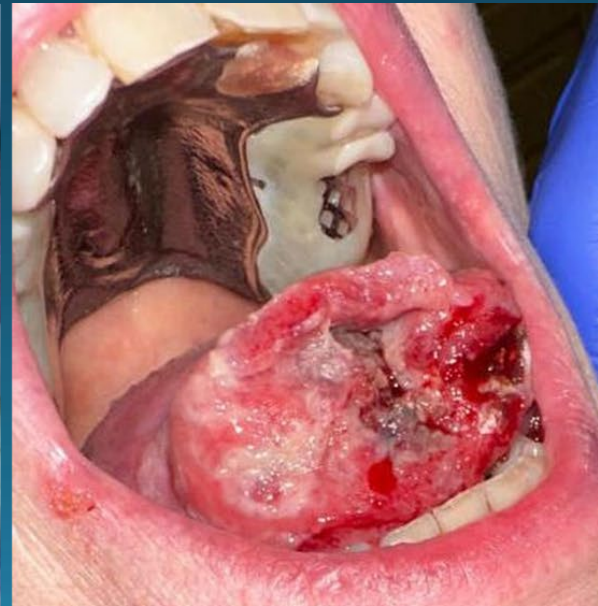
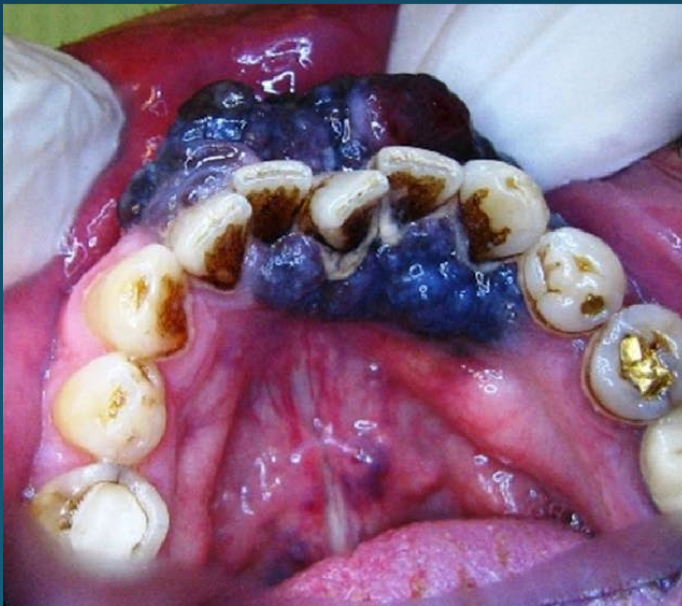
- Provide an overview of malignancies in KY
- Discuss metastatic malignancies that occur in the oral cavity in a CPC format
- Share important takeaways that can help the lesional triage process in any practice

Plan For Today:

- Disclaimer 1: The sharing of these cases is not to disparage or discredit the submitting clinician in any way. They allowed me to share to help others learn.
- Disclaimer 2: I have specifically chosen cases, not to encourage anyone to practice scared, but to practice smart.

Plan For Today:

- Disclaimer 1: The sharing of these cases is not to shame or discredit the submitting clinician in any way. They allowed me to share to help others learn.
- Disclaimer 2: I have specifically chosen cases, not to encourage anyone to practice scared, but to practice smart.



“Oral Cancer”

- Statistics usually specific to squamous cell carcinoma
 - Most common, but not the only malignancy that occurs in the oral cavity
- Metastatic tumors to the oral cavity also occur (not included in the OC stats)
 - Often mimic benign or reactive lesions
- The common risk factors may or may not apply to the variety of lesions we will cover today.



Kentucky Cancer Statistics

At a Glance

★ All Cancer



30,630

estimated new cases
2024

10,230

Types
estimated deaths
2024

506.8

incidence rate
2016-2020

180.1

mortality rate
2017-2021

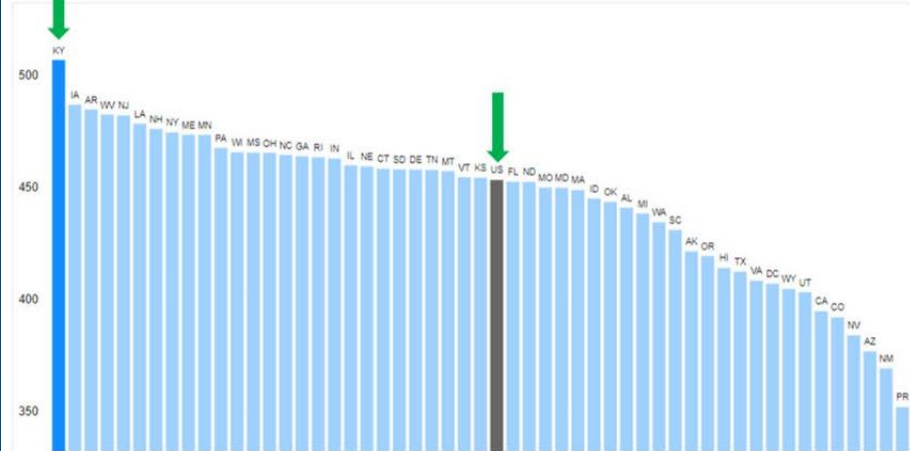
Average annual rate per 100,000, age-adjusted to the 2000 US standard population

Kentucky Incidence Rates 2016-2020

Incidence Mortality

Incidence: All Cancer Types

Sex: Sexes combined Type: All cancers



How does Kentucky compare?

506.8

Kentucky's incidence rate is higher than the national rate

453.2

National incidence rate

Incidence rates for 2016-2020

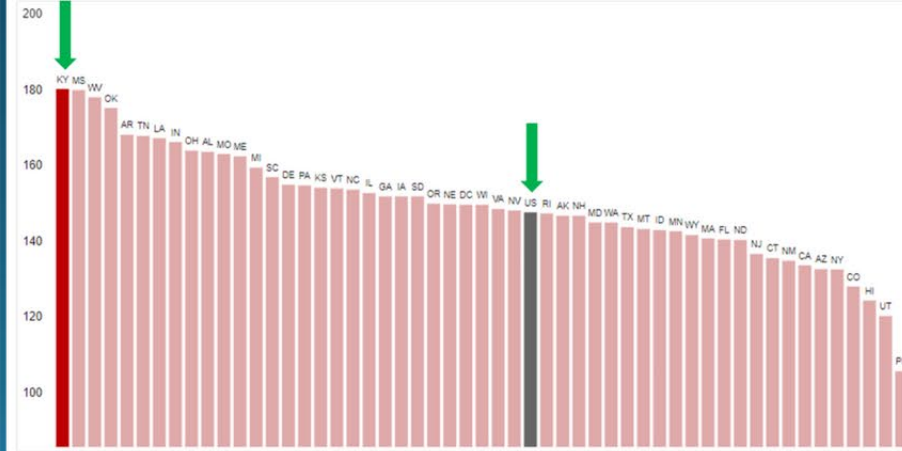
©American Cancer Society, 2024
Average annual rate per 100,000, age adjusted to the 2000 US standard population.
Data Sources: North American Association of Central Cancer Registries, 2022

Kentucky Mortality Rates 2017-2021

Incidence Mortality

Mortality: All Cancer Types

Sex: Sexes combined Type: All cancers



How does Kentucky compare?

180.1

Kentucky's mortality rate is higher than the national rate

147.5

National mortality rate

Mortality rates for 2017-2021

©American Cancer Society, 2024
Average annual rate per 100,000, age adjusted to the 2000 US standard population.
Data Sources: National Center for Health Statistics, Centers for Disease Control and Prevention, 2022

Kentucky Cancer Statistics

Cancer Specific:

- Incidence:

- #1: Laryngeal
- #1: Lung and Bronchus
- #2: Colorectal
- #4: Renal

- Mortality:

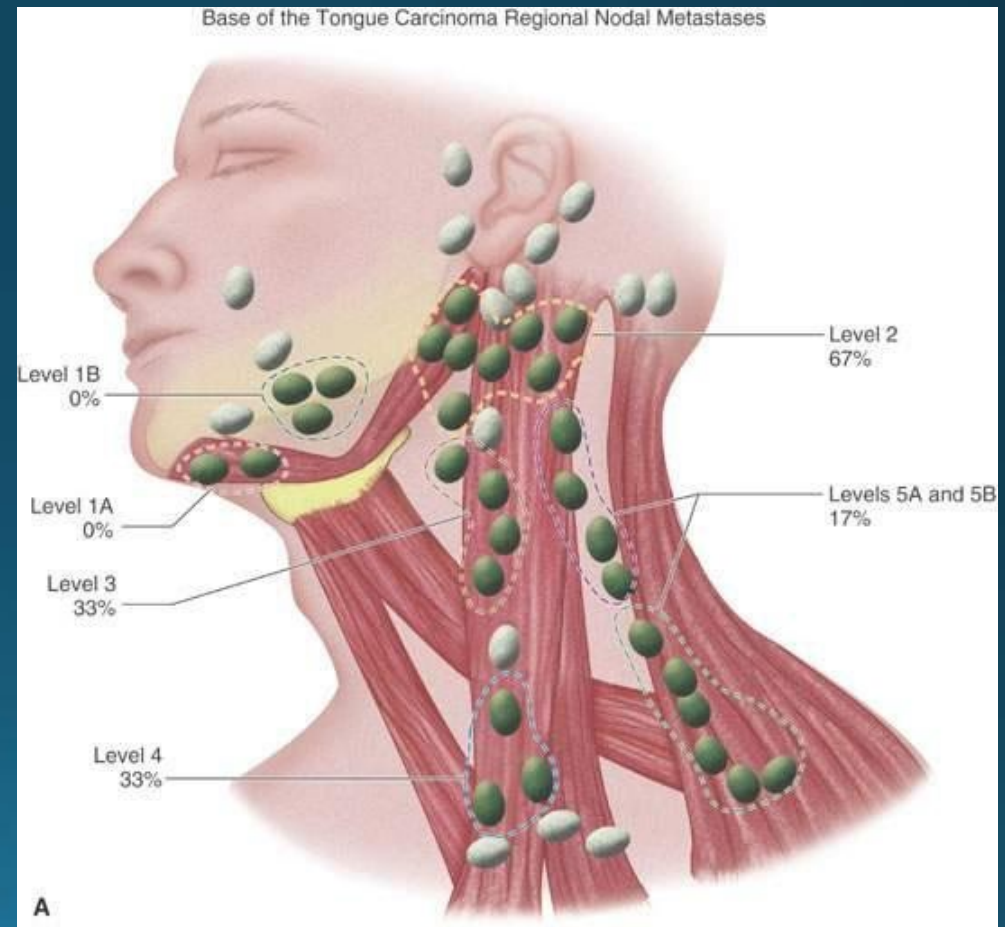
- #1: Non-Hodgkin Lymphoma
- #1: Hodgkin Lymphoma
- #1: Lung and Bronchus
- #3: Colorectal
- #3: Urinary Bladder

Metastases To The Oral Cavity

- Rare
 - ~1 to 3% of all malignant lesions in the oral cavity
 - Most common primary tumor locations:
 - lung, breast, kidney and colon
 - Can met to:
 - soft tissues (ANY, but esp gingiva)
 - hard tissues (particularly alveolar bone)
 - Initial deposit may be in one and invade into the other
 - Most common based on gender:
 - Men:
 - lung, prostate, liver, renal
 - Women:
 - breast, adrenal, genital organs, colorectal
- ANY area can make it to the oral cavity
 - **THEY LOVE TO MIMIC BENIGN or REACTIVE LESIONS**

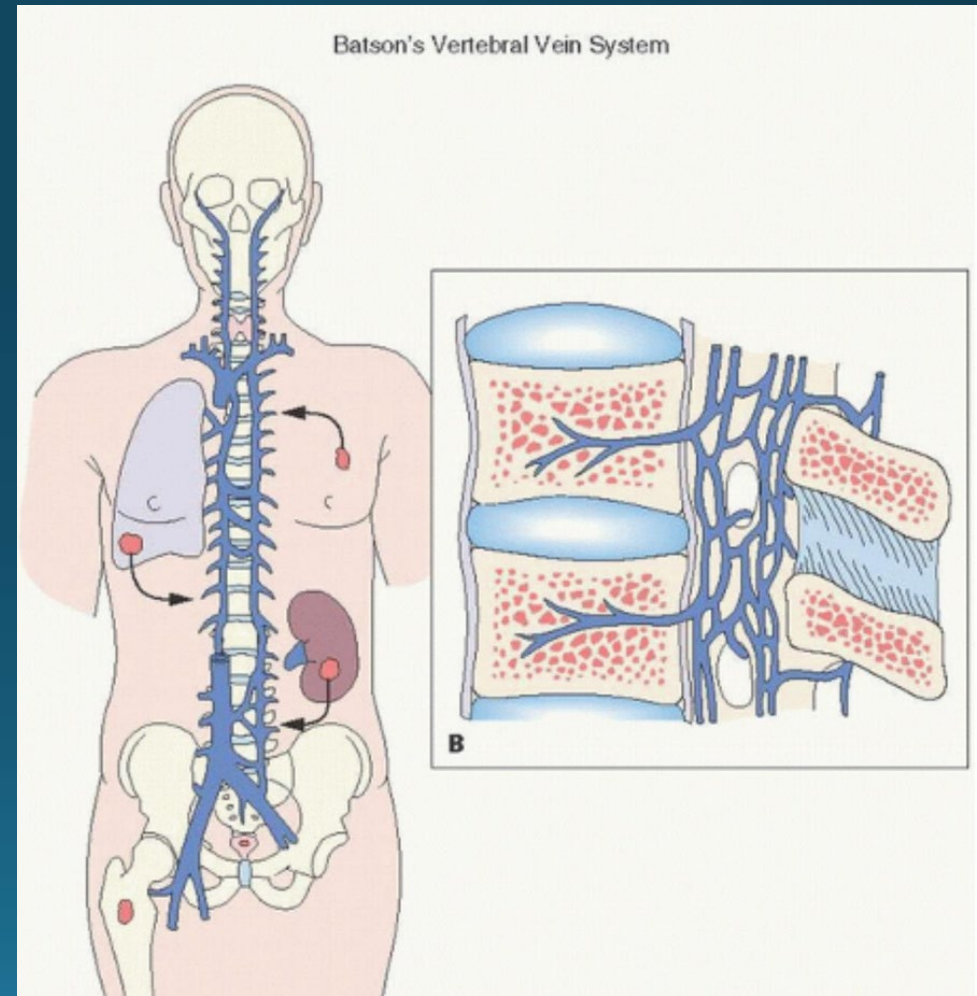
Mets to the Oral Cavity: How Do They Even Get There?

- Mechanism of tumor spread to the oral cavity is poorly understood
- Primary malignancies from immediately adjacent tissues might be able to spread by a lymphatic route
 - But this doesn't explain metastases from tumors from lower parts of the body, which are almost certainly blood-borne and should be filtered out by the lungs.



Mets to the Oral Cavity: How Do They Even Get There?

- Batson Plexus:
 - Possible explanation for blood-borne metastases to the head and neck
 - Esp in absence of pulmonary metastases
 - Valveless vertebral venous plexus that might allow retrograde spread of tumor cells, bypassing filtration through the lungs

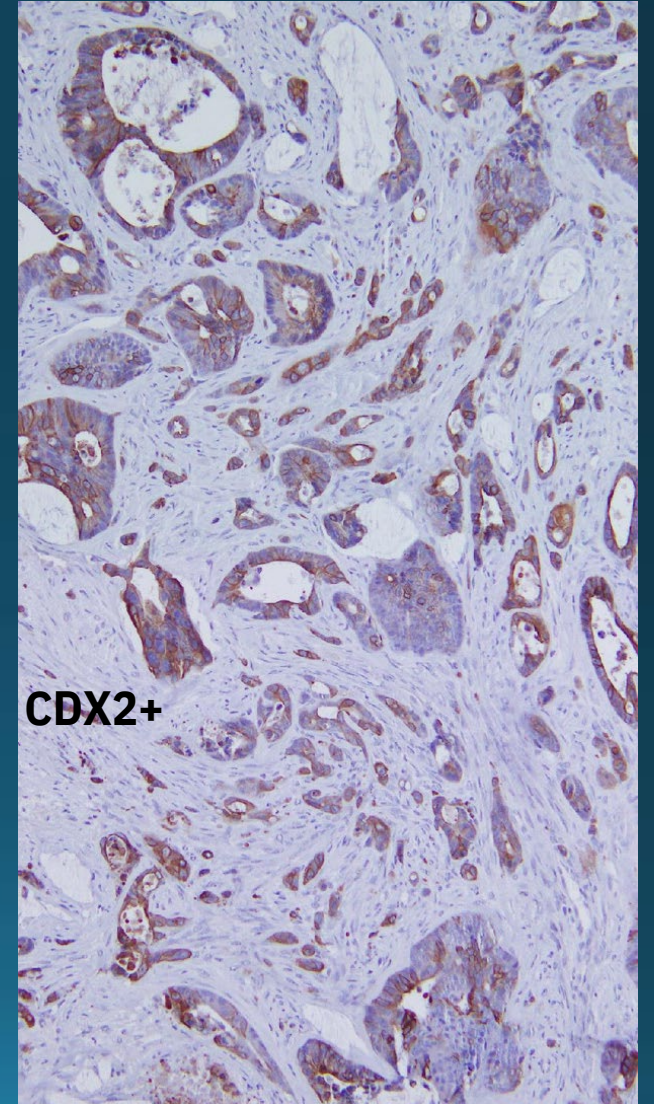
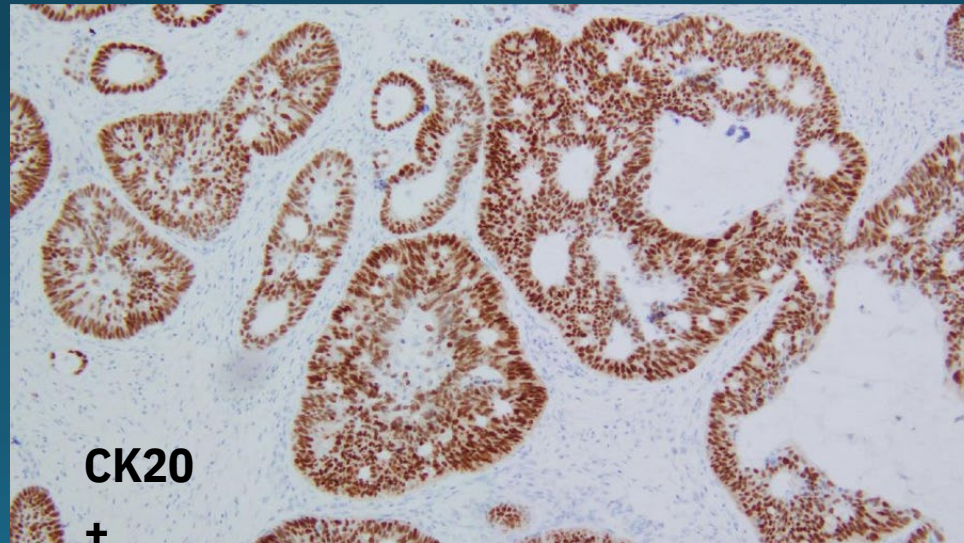
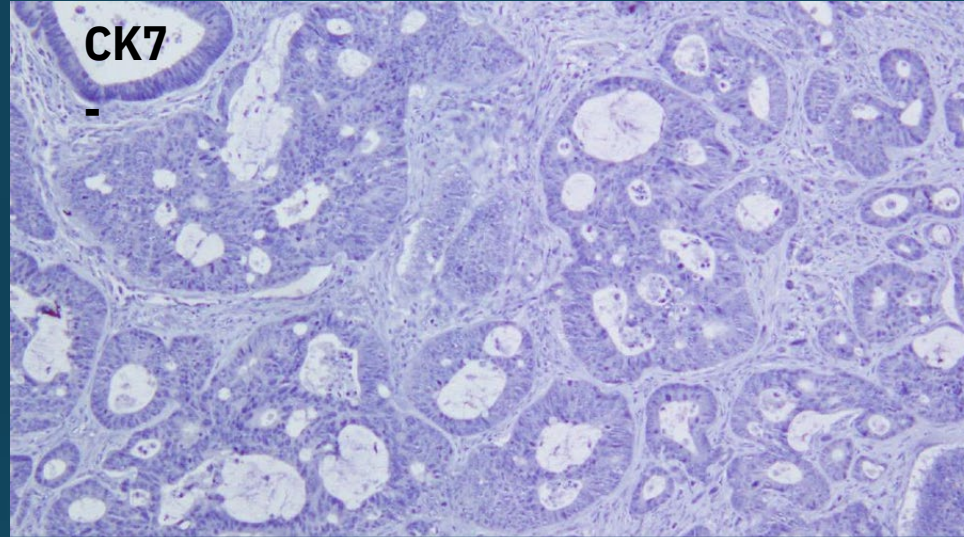
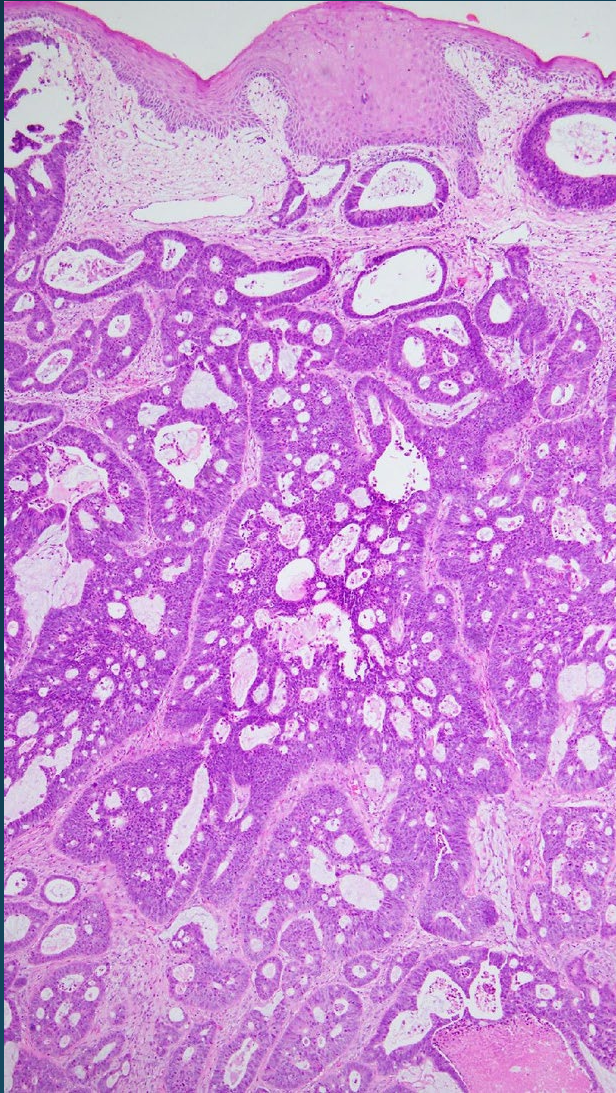


Case 1: “Pyogenic Granuloma” #1

- 59 yo male
- Currently being treated for colon cancer
- Clinical dx: pyogenic granuloma
- #4 extracted previously because it was loose; then this popped up

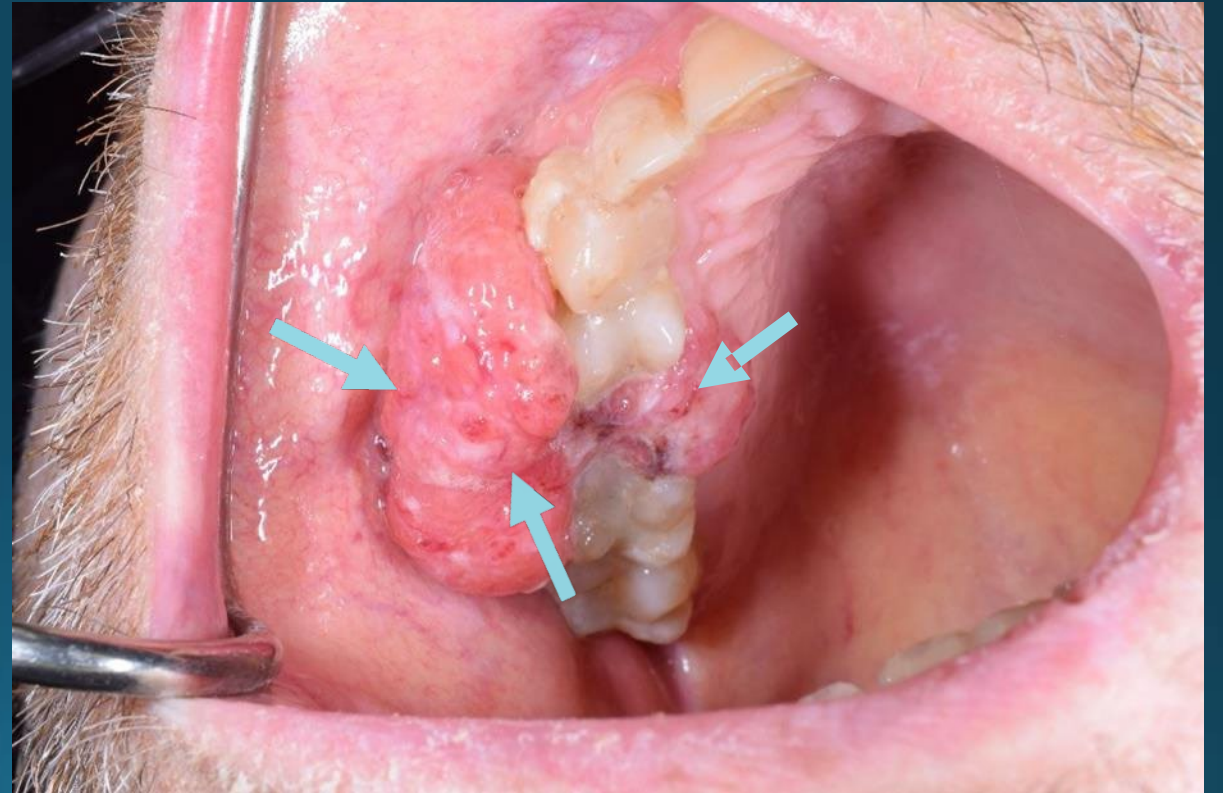


Case 1: Metastatic Colon Cancer



Case 1: The Takeaways

- Have a very low threshold to biopsy, especially if patient is undergoing treatment for a known cancer
- Surface telangiectasias are a warning sign of tumor angiogenesis



Case 1: The Takeaways



Our Case Surface
Telangiectasias



True Pyogenic Granuloma
Diffusely Erythematous and Hemorrhagic;
No discrete vascularity on surface

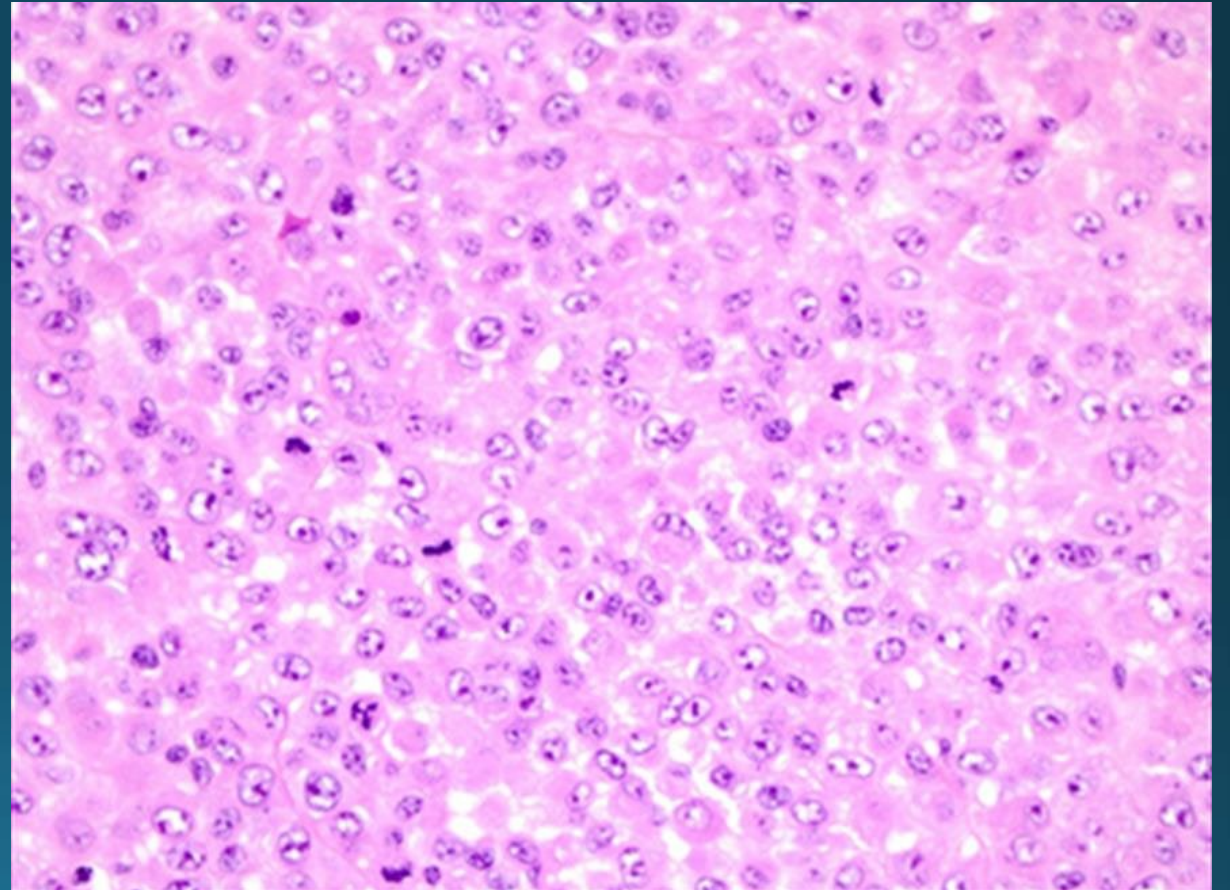
Case 2: “Pyogenic Granuloma” #2

- Considerations:
 - 1. Pyogenic granulomas:
 - Common
 - Can occur in ANY soft tissue location
 - 2. Malignancies rare on the dorsum of the tongue



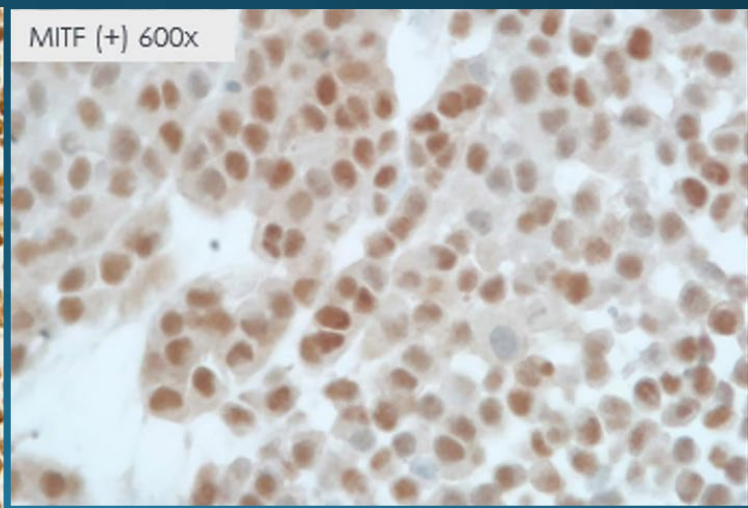
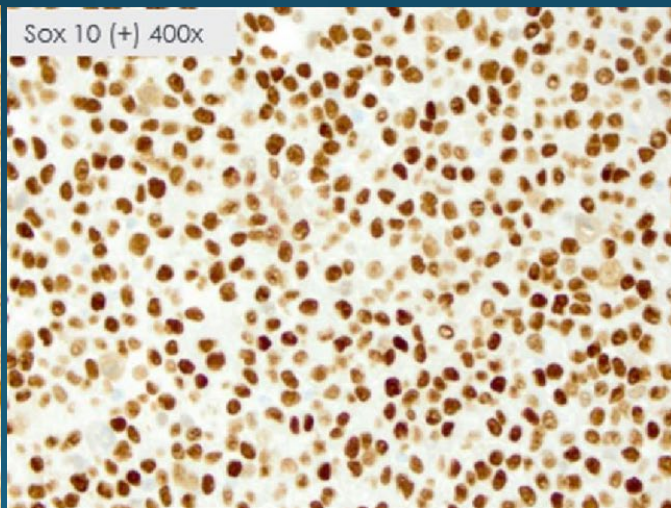
Case 2: “Pyogenic Granuloma” #2

- Lots of cells/malignancies can look like this
 - Ex: rhabdomyosarcoma, plasma cell neoplasms, lymphomas, melanomas
- Increased mitotic figures
- Called clinician to request additional information to help guide stain panel; reviewed med hx; no significant findings



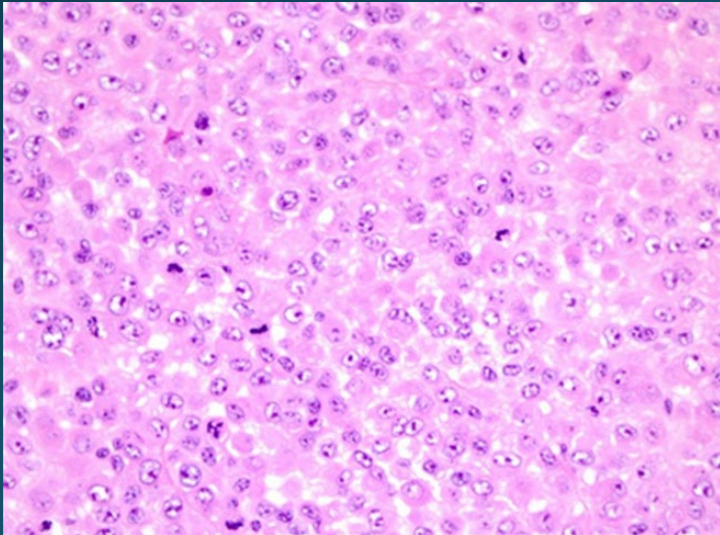
Case 2: "Pyogenic Granuloma" #2

- Typical Melanoma markers negative (Melan-A, HMB-45)
- Less common markers positive (MITF)



Case 2: Metastatic Cutaneous Melanoma

- Hx of Primary Cutaneous Melanoma of the thigh 10 years prior
- Not all melanoma makes pigment
 - Amelanotic Metastatic Melanoma



Case 2: Metastatic Cutaneous Melanoma

- Rare
- ~5% experience metastases to the upper aerodigestive tract
- Indicates disseminated disease
- Metastasis occurs ~2-7 years after initial cutaneous lesion

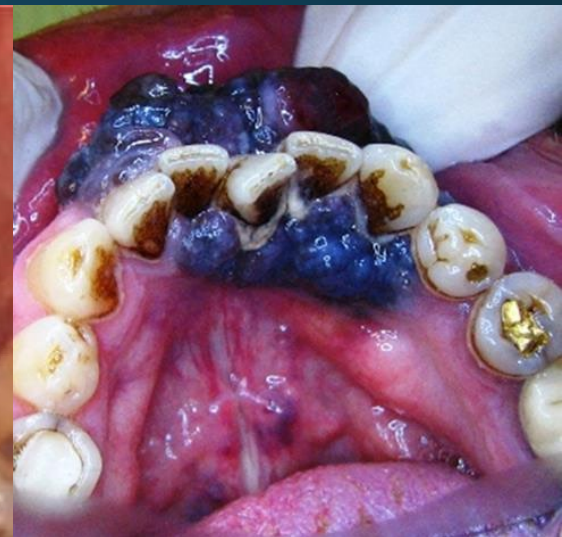


Case 2: The Takeaways

- ANY history of cancer ANYWHERE in the body, no matter HOW LONG AGO is important to:
 - 1. May have to ask pt directly
 - 2. Note
 - 3. Have a low threshold to biopsy any unexplained lump or bump
 - 4. Metastatic (and Primary) melanoma can look like anything clinically and histopathologically



Case 2: The Takeaways



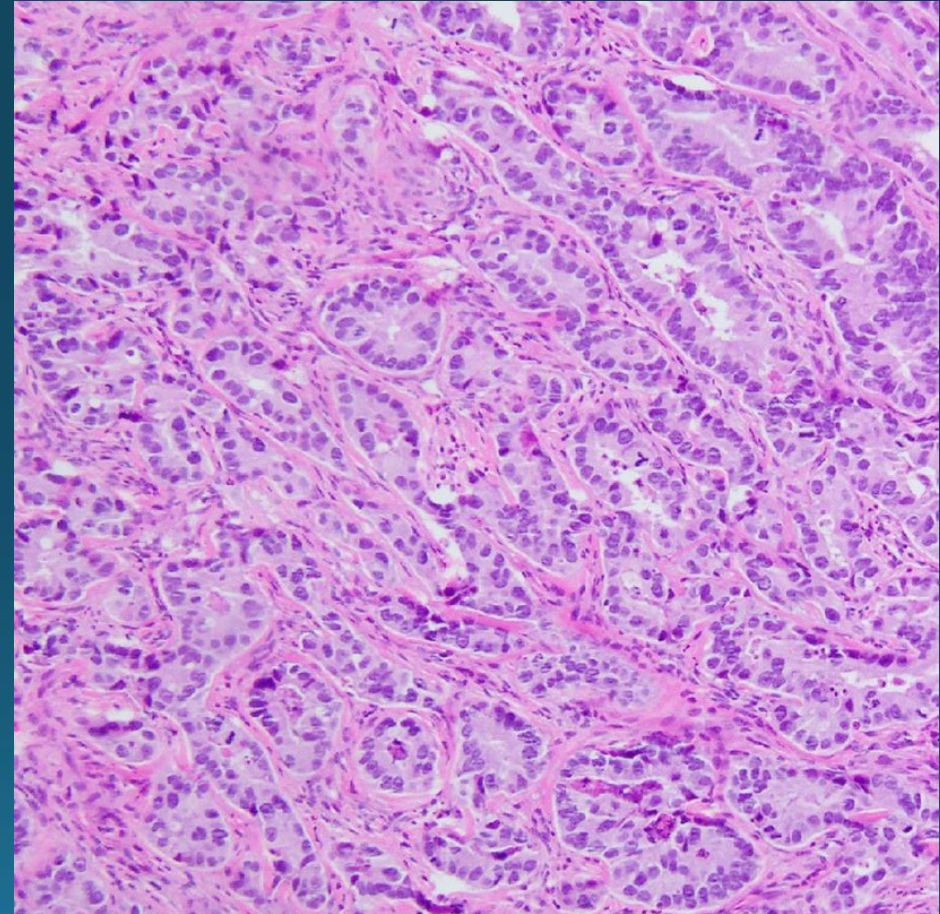
Case 3: “Abscess of Left Post. Maxilla”

- 60 yo male
- Hx of colon cancer w/mets to the liver; stated he had been cancer free for 20 yrs.
- Presented to ED with persistent throbbing pain in the area
- Tx with antibiotics; no resolution



Case 3: “Abscess of Left Post. Maxilla”

- The dilemma:
 - We KNOW he has hx of colon cancer
 - Do I need to PROVE this is the same?
 - Do I spend his health care dollars to do so?
- Mets can look diff than primary tumor



Case 3: "Abscess of Left Post. Maxilla"

- What we expect for colon adenocarcinoma:

CK7

CK20+

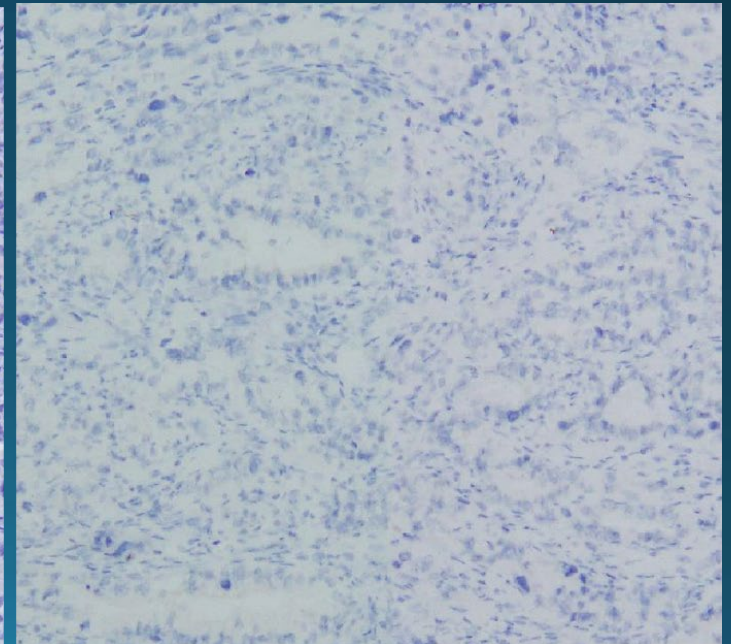
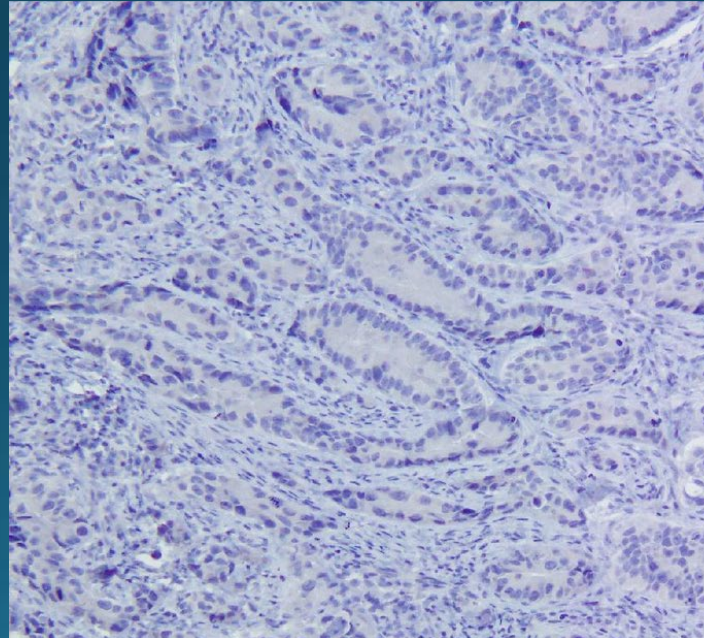
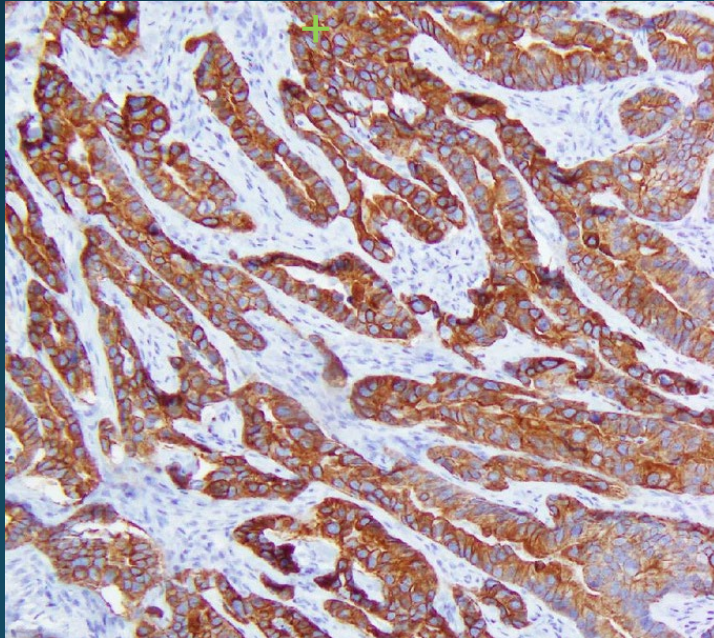
CDx2+

- What we got:

CK7

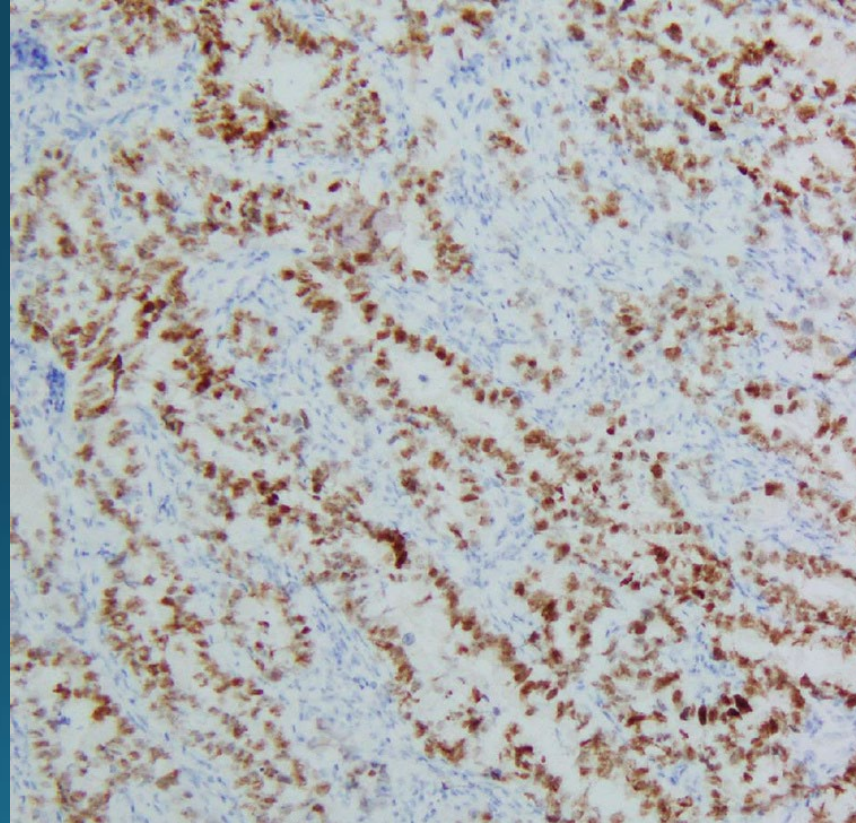
CK20-

CDx2-



Case 3: Metastatic Lung Adenocarcinoma

- Lung metastasis with occult primary



Case 3: The Takeaways

- “A patient can have as many diseases as he pleases”
- If no response to reasonable empiric therapy, biopsy indicated
 - 2 week grace period; golden rule of pathology
- Benign things usually don't have surface telangiectasias



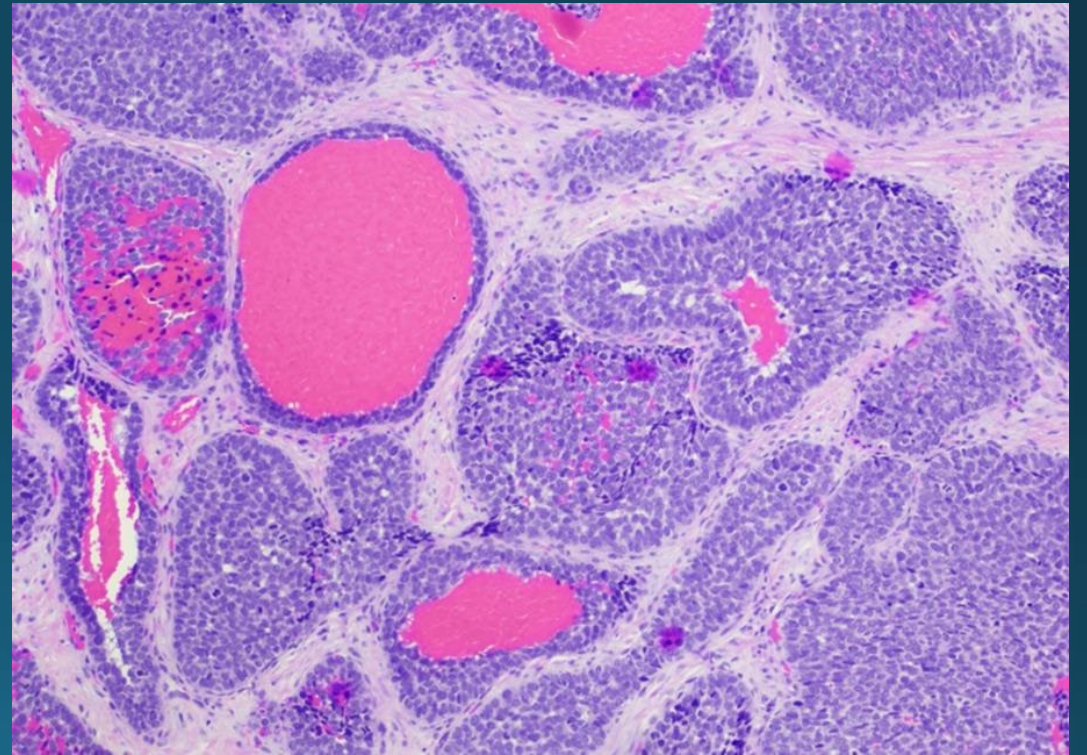
Case 4: "Pyogenic Granuloma" #2

- 49 yo female
- CC: bump on the gum for a few months, slowly enlarging
- No radiographic changes; mild calculus; removed but lesion continued to enlarge



Case 4: Metastatic Breast (Lobular)

- Met discovered before primary tumor was known



Case 4: The Takeaways

- Gingiva: 54% of oral soft tissue metastasis
- Nodular mass
 - resembles a hyperplastic or reactive growth
- Any malignancy from any body site
- Women: Metastatic breast accounts for 25%



Case 4: The Takeaways



Our Case



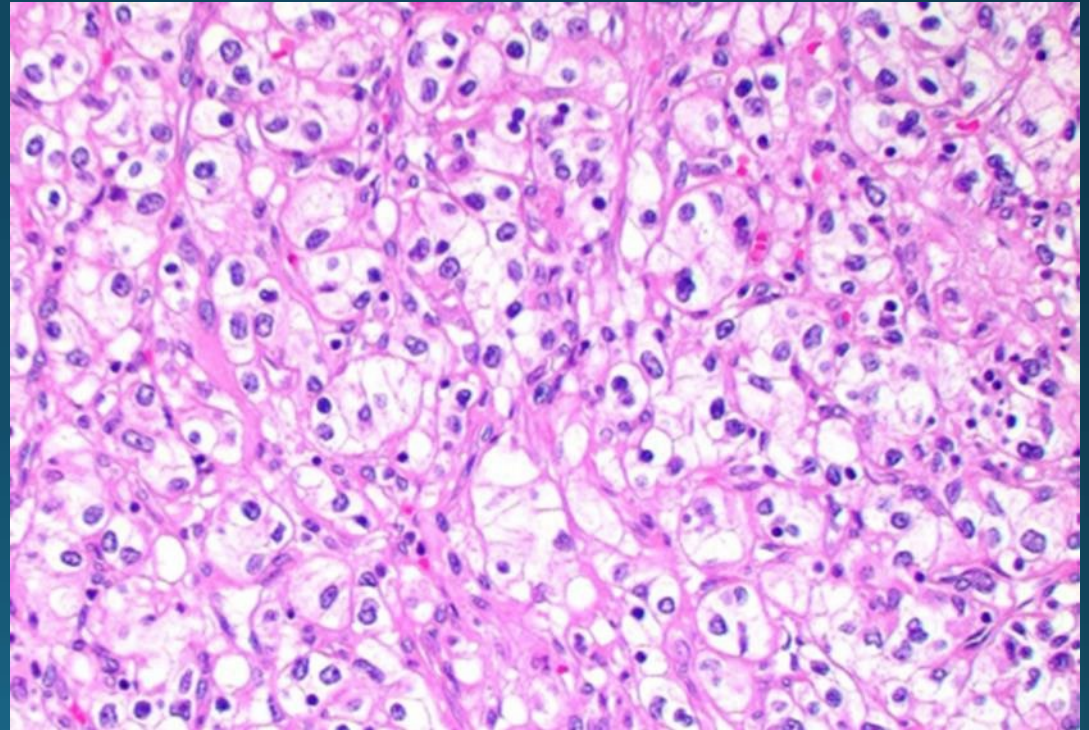
True Pyogenic Granuloma

Case 5: “Peripheral Ossifying Fibroma”

- 52 yo female
- Clinical diagnosis: 3P's: favored peripheral ossifying fibroma
- No radiographic changes
- Starting to get sore from eating
- No prior hx of malignancy



Case 5: Metastatic Renal Cell Carcinoma



Case 5: The Takeaways

- Metastases can look like anything
- If it's weird enough to cut out, it's good enough to send in.



Case 5: Notes on Renal Cell Carcinoma

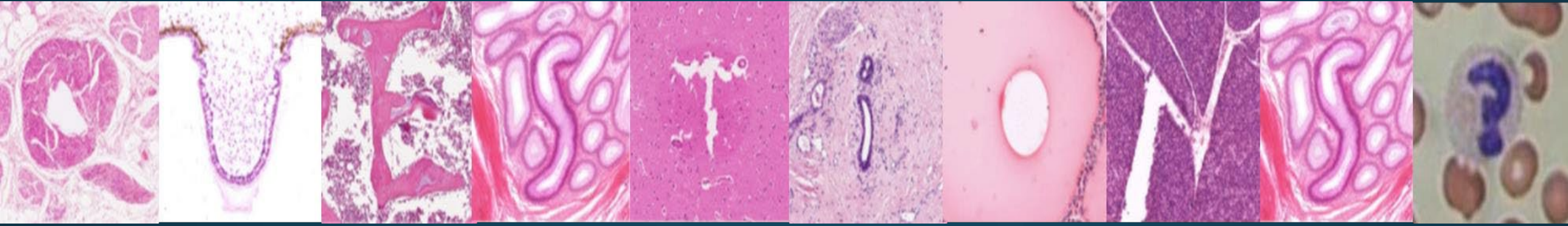
- RCC can present with a range of symptoms
- Many patients asymptomatic until disease is advanced
- At presentation, ~25% have distant mets or advanced locoregional disease



Metastases to the Oral Cavity

- Final thoughts:
 - Usually indicates disseminated disease
 - “Final stop on the metastatic train”
 - Can be in hard or soft tissue or combo
 - Often mimic benign or reactive processes
 - In the absence of widespread of regional periodontal disease (ie single tooth mobility/bone loss) additional investigation is needed





Jennie Ison, DMD

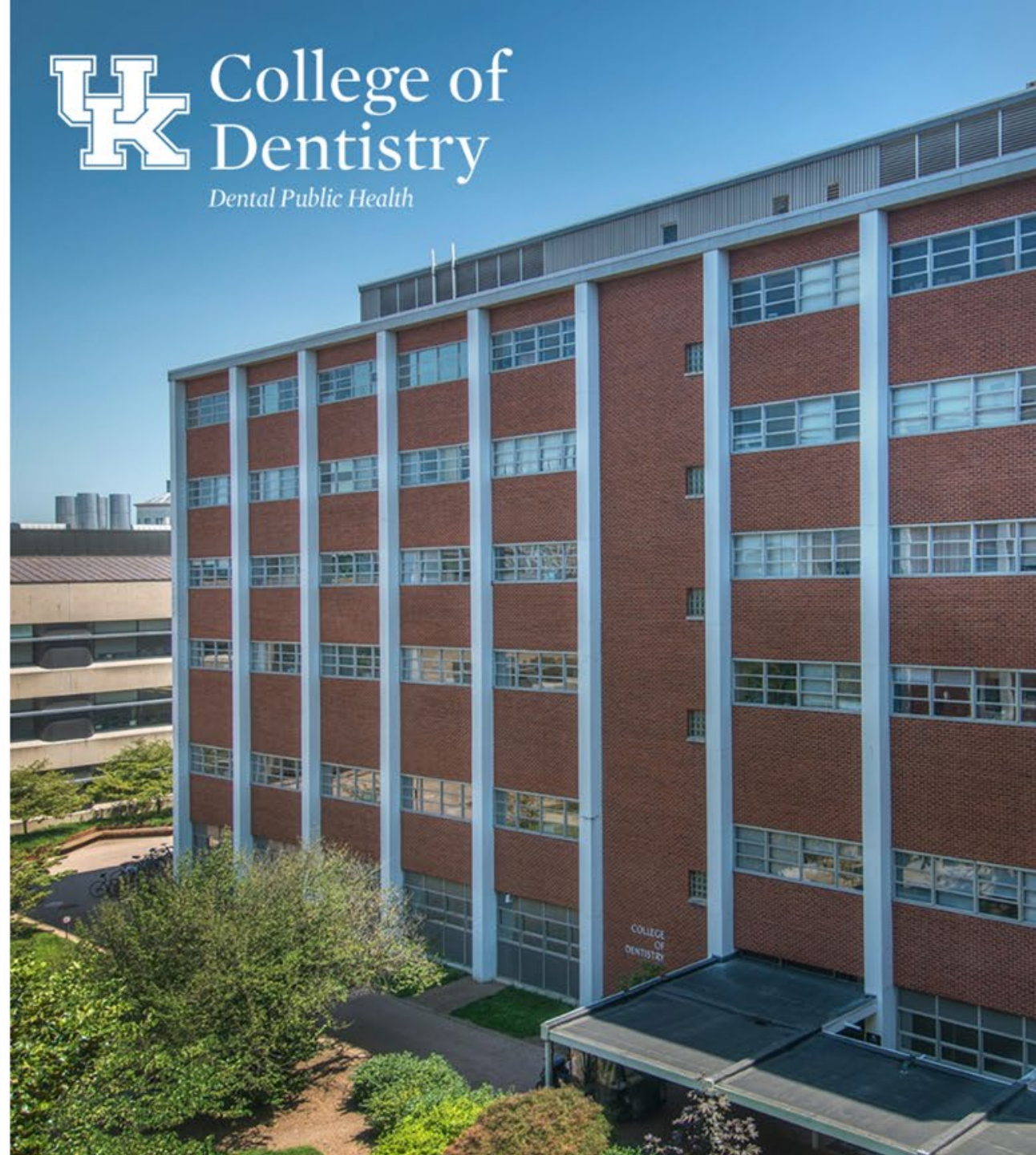
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Kentucky Early Learners' Oral Health Surveillance Project

A partnership between
Kentucky Department for Public Health
and
University of Kentucky College of
Dentistry

 College of
Dentistry
Dental Public Health



Kentucky Early Learners' Surveillance

Regional caries experience data was collected across Kentucky for the first time in 25 years on 2 – 5-year-olds. The data was collected by Registered Dental Hygienists using the Association for State and Territorial Dental Directors Basic Screening Survey Tool.

Methodology

- 8 Regions were determined
 - Rural vs. Urban designation
- Multi-sampling methods used in determination of sample
 - Benton Outreach Program
 - Aimed to screen children in every Kentucky county
- Population diversity achieved through screening within public and private settings
- Facility type was used as proxy for socioeconomic status

Methodology Continued

- Hygienist - screeners utilized with formal training event including calibration, December 2022
- Association for State and Territorial Dental Directors – Basic Screening Survey Tool

SEX



Female
49.5%



Male
50.5%

URBAN vs. RURAL

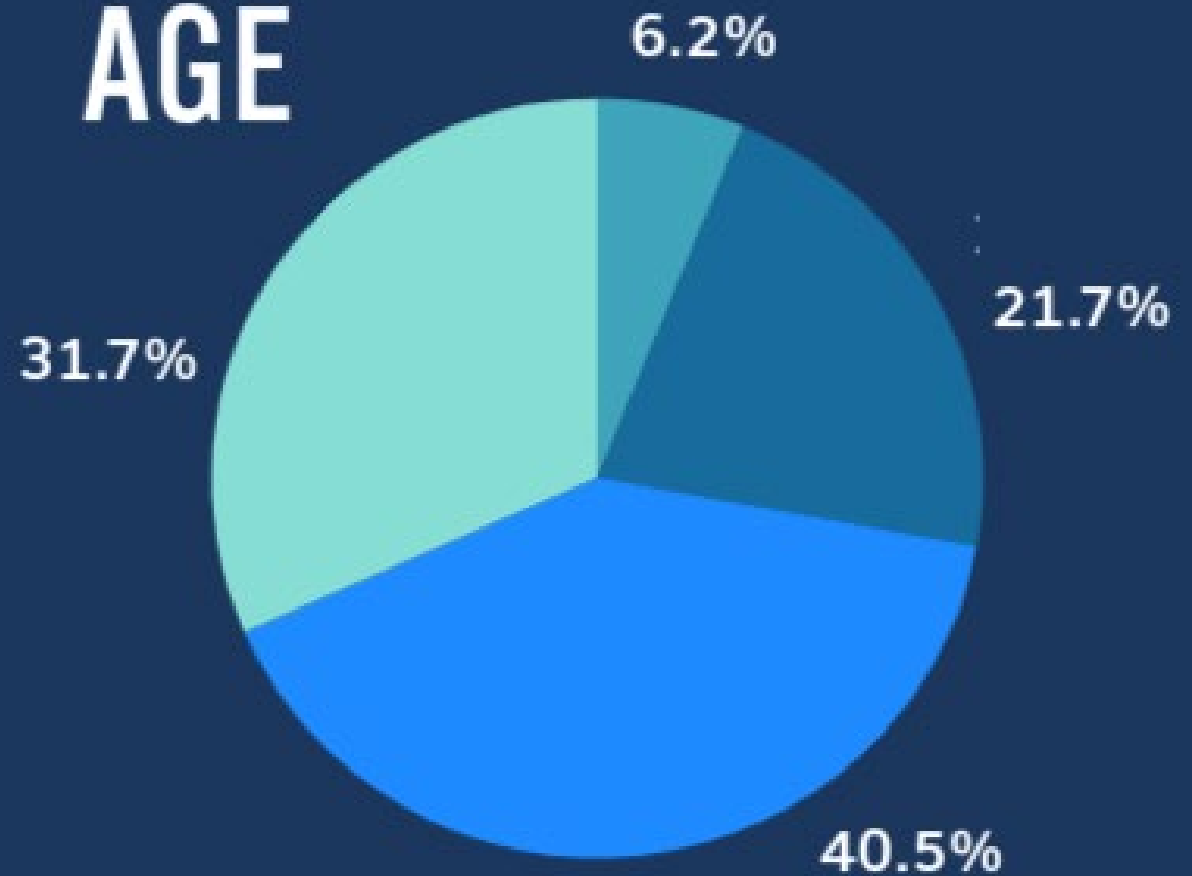


Urban
33.8%



Rural
66.2%

AGE



Age 2 Age 3 Age 4 Age 5

Basic Screening Survey Tool

- Association for State and Territorial Dental Directors (ASTDD)
 - Basic Screening Survey (BSS) Tool
 - » Non-invasive, two-part process, direct observation, series of questions
 - » BSS tool collects:
 - Caries experience
 - Untreated decay
 - Treatment urgency
 - » Demographic data collected:
 - Age
 - Gender
 - Race/ethnicity

What did we look at?

1. Assess the Burden of Disease:

Determine the prevalence of dental decay among Kentucky children ages 2-5, focusing on:

- Caries experience
- Treated decay
- Untreated decay
- Treatment needs for untreated decay: none, early, urgent

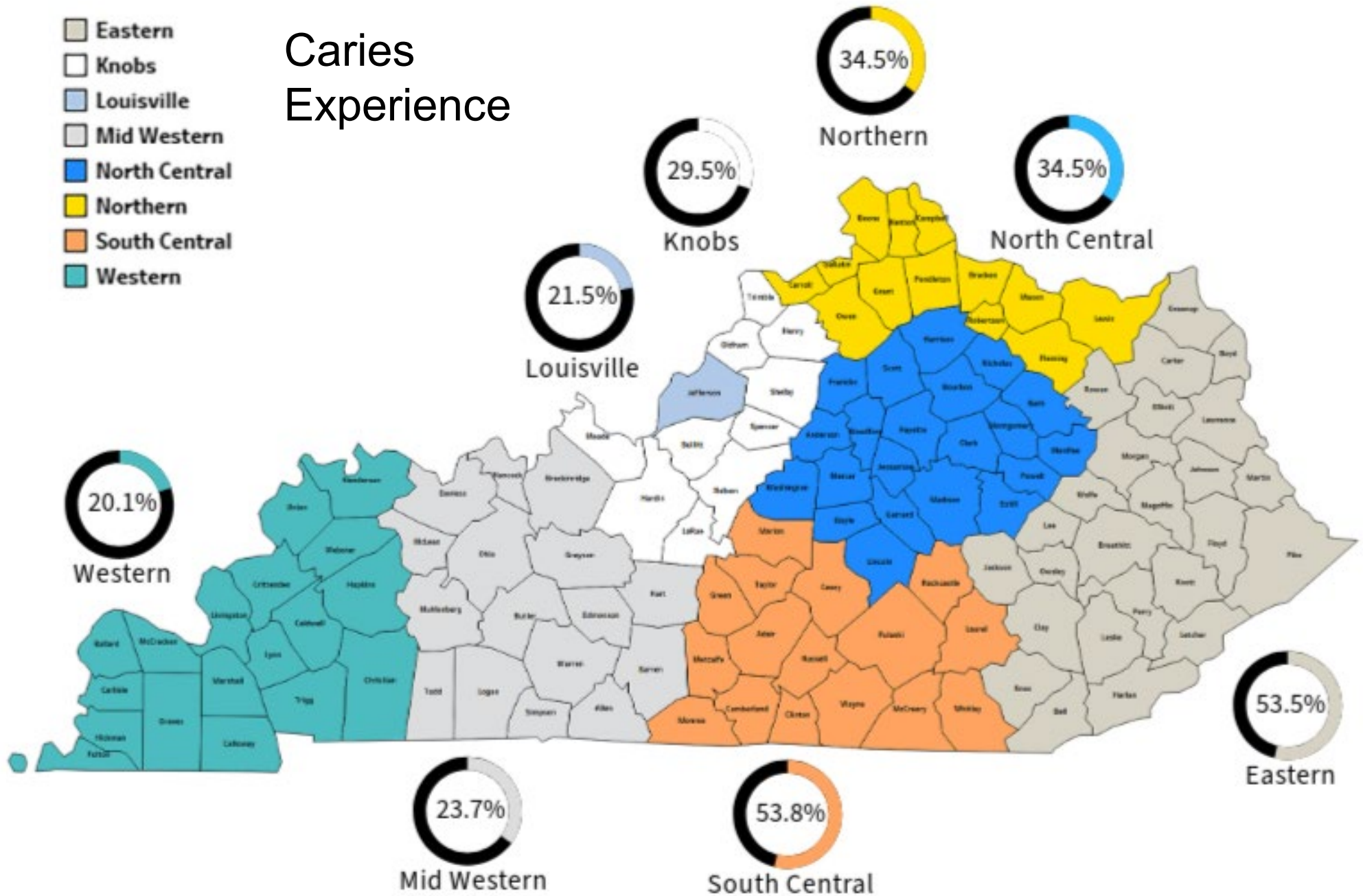
What did we find?

Insert Drumroll Audio

Just kidding, I don't know how to do that.

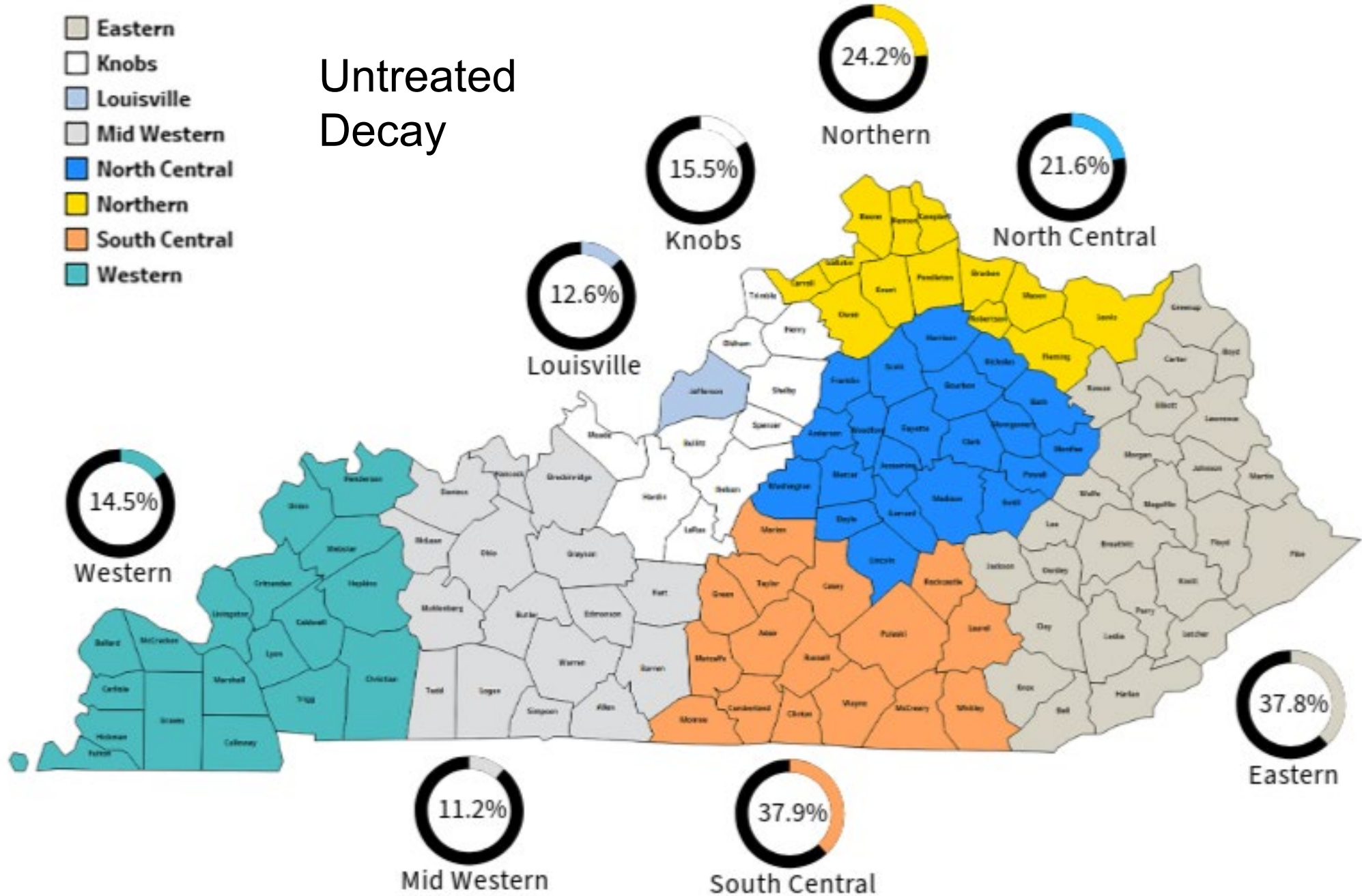
Caries Experience

- Eastern
- Knobs
- Louisville
- Mid Western
- North Central
- Northern
- South Central
- Western



Untreated Decay

- Eastern
- Knobs
- Louisville
- Mid Western
- North Central
- Northern
- South Central
- Western



Results:

- Region is significantly associated with all types of decay even after controlling for facility type and age. South Central and Eastern regions have significantly higher prevalence rates compared to the other regions in all three decay categories
- Increased age is significantly associated with higher prevalence of all three decay categories even after controlling for regional effects and rural vs. urban location
- Black/African American race is significantly associated with higher prevalence of *caries experience* in the Louisville region, higher prevalence of *untreated decay* in the South Central region, and higher prevalence of *treated decay* in the Northern region

Results Continued:

- Hispanic/Latino ethnicity is significantly associated with higher prevalence of caries experience and untreated decay, but not treated decay, meaning that untreated decay is a major factor in this oral health disparity
- Facility type (Head Start, School Based Head Start and Other) is significantly associated with higher prevalence of all decay categories, even after controlling for age and rural vs. urban location. This is consistent with previous surveys that identified poverty as a key risk factor
- Rural location is significantly associated with higher rates of all three decay categories and seems to amplify other associations. For example, increased age is more strongly associated with all types of decay in rural locations, and Head Start and other facility types are also more strongly associated with higher rates of decay in rural locations

Key Findings:

The various demographic, geographic and social factors that were more strongly associated to higher rates of untreated decay differed at times from what was found for caries experience and treated decay. Drilling down into the factors associated with higher rates of untreated decay—facility types serving kids of lower socio-economic status (SES), rural location, Hispanic/Latino ethnicity and Eastern/South Central regions emerged as significantly associated with increased rates of untreated decay suggesting that they may influence access to care.

Caries Experience by Race

RACE	# OF SAMPLE	CARIES EXPERIENCE	UNTREATED DECAY	TREATED DECAY
American Indian/Alaska Native	25	28%	20%	16%
Asian	58	32.8%	24.1%	12.1%
Black/African American	861	29.2%	18.6%	13.2%
Native Hawaiian/Pacific Islanders	15	40%	26.7%	20%
White	5,105	35.5%	22.1%	19.4%
Bi - or Multi-Racial	478	34.7%	23.4%	17.2%
Other	246	37%	22%	20.3%

Zip Code Data for Louisville

- Prevalence rates of any caries experience exceeding 20% were observed in the zip codes 40272 (31.8%), 40212 (45.0%), 40258 (30.6%), 40214 (29.4%), 40216 (21.4%), 40203 (28.6%), and 40210 (29.2%).
- A significant association exists between the zip codes of children's residences and any caries experience. Significantly higher prevalence rate of any caries experience (29.8%, 48 out of 161) among children from poor neighborhoods compared to children from non-poor (19.3%, 117 out of 607) zip codes.
- These zipcodes are in West and Southwest Louisville, predominantly Black neighborhoods

Race and Oral Health Disparities

It is important to note that the disparities in predominantly black communities in West and South West Louisville are not due to coincidence, biological propensity, or personal choice. Health access issues in Louisville follow the lines of our segregated communities. Redlining from mortgage and real estate companies lead to black residents concentrating in undesirable neighborhoods, with older housing, more air pollution, and less government investment. Louisville is still deeply segregated along those lines. Additional investigation and programming is needed to work toward oral health equity.

Western Kentucky

- Western Kentucky Head Starts/School-based Head Starts from EPIC vs all other Head Starts and School-Based Head Starts (non-EPIC)
- Significant association between caries experience and children screened in non-EPIC versus EPIC facilities.
- Significantly higher in children from non-EPIC facility types (like school-based Head Start and Head Start) compared to those observed in EPIC facility types.
- Caries experience, after controlling for the age of the children, the odds of observing caries in children from non-EPIC facilities slightly decreased compared to those in EPIC facilities. For untreated caries, the odds ratio decreased slightly. Likewise, the odds ratio for untreated decay also decreased.

Impression of Decay Local Screeners

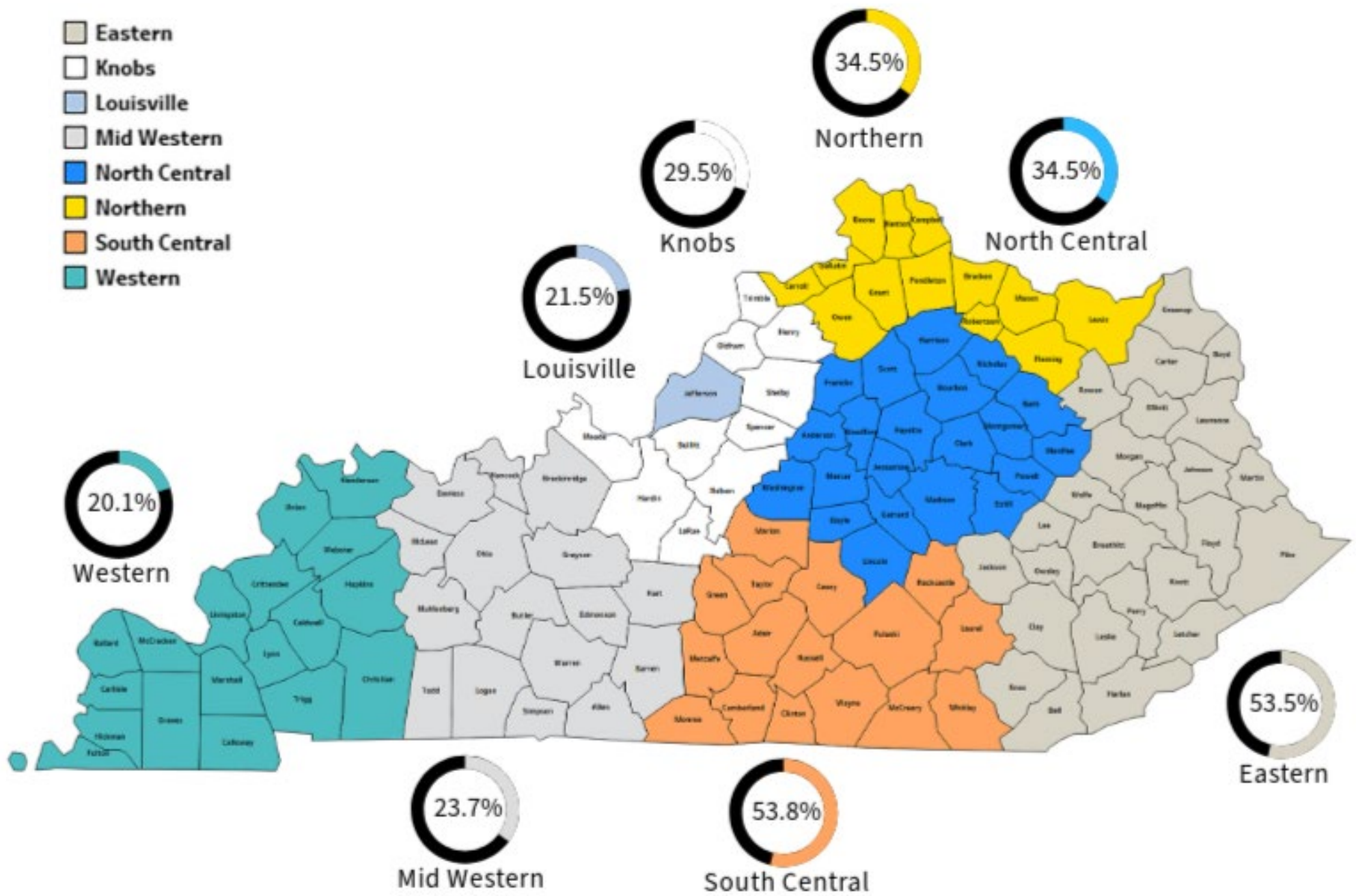
- It was eye opening, and often went along with the SES of the center, such as if they were they private pay or state assisted
- About what I expected. i.e. high rates of decay. Spoke with a few parents of the children and most stated that getting in for treatment is the hardest part. Most are told they have to wait months, or they aren't taking ANY new patients
- I have been a PHRDH for several years, so I was aware of the rates in my area. It is just way too high!
- Decay rates seems to depend on demographics such as income, education and access to care. No supprises.

Highlights from Participating RDHs

- The children
- Most kids have seen a dentist However most still had a lot of dental needs from small caries to abscesses
- I enjoyed the camaraderie, working with others that share the same passions. The children that were excited also made me feel good about participating
- The study materials are top notch and the gathering of information was fairly easy

Highlights Continued

- The smile and the Willingness of the children
- Being able to participate in such an important data collection project to hopefully help us better implement our preventive oral health services moving forward
- I enjoyed interviewing and bringing on board the hygiene screeners, and seeing how interested they were in the project. I liked being part of an important program that would benefit KY children in the future
- Educating the children on oral health



Questions and Answers



College of Dentistry

Dental Public Health

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DENTISTRY

Water Fluoridation in KY

With Dr. Julie McKee



KOHC 2025 Policy Priorities

- Protect community water fluoridation programs
- Expand practice settings for public health registered dental hygienists
- Increase Medicaid reimbursement rates for dental services
- Reduce youth initiation of tobacco products, including e-cigarettes and vapes

KOHC Steering Committee - New Member

- Brooke Jones, PHRDH, Gateway District Health Department

Member Voting

- Any active KOHC member may participate in voting
- Organizational members may vote once per organization – designate one person to participate from your organization
- Use voting cards at your table

Questions?



Vote 1

- Protect community water fluoridation programs



Vote 2

- Expand practice settings for public health registered dental hygienists



Vote 3

- Increase Medicaid reimbursement rates for dental services



Vote 4

- Reduce youth initiation of tobacco products, including e-cigarettes and vapes



Vote 5

- KOHC Steering Committee new member
 - Brooke Jones

Member Updates

Kentucky Oral Health Coalition

KOHIC

For a lifetime of oral health

Thank you for
joining!

www.kentuckyoralhealthcoalition.org

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