UNIVERSITY OF KENTUCKY BOARD OF TRUSTEES

Chipper Griffith, Dean, College of Medicine
Ilhem Messaoudi, Acting Vice President for Research
Jay Miller, Dean, College of Social Work





Health Status of Kentuckians

In 2022, Kentucky ranked:

- 2nd in cancer deaths
- 4th Hepatitis C deaths
- 18th in HIV deaths
- 3rd in septicemia
- 4th in **influenza and pneumonia** deaths
- 7th in **overdose** deaths
- 2nd in **COPD** prevalence

- 8th in **heart disease** deaths (no change)
- 16th in **strokes**
- 10th in obesity prevalence
- 9th in diabetes-related deaths
- 7th in **preterm births**
- 6th in maternal mortality



THE UNIVERSITY OF KENTUCKY

- 1 of only 34 institutions in the country
 with the trifecta of National Institutes of
 Health research designations for
 excellence in cancer, aging and translational science.
- 1 of only 8 institutions in the country with the full complement of liberal arts, engineering, professional, agricultural and health sciences colleges on one campus.
- Connected to communities through the Cooperative Extension Service in all 120 counties.
- Educational campuses and affiliate hospitals across the state to educate and serve Kentuckians close to home.
- In FY24, UK received \$488,446,297 in awards including 1,920 new projects awarded to 830 principal investigators from 633 sponsors

College of Medicine Initiatives

Reaching Kentuckians Where They Are — Comprehensive Hepatitis C Eradication and Care in Kentucky Emergency Departments (CHECKED)

- Developed a screening model in Emergency Departments (ED) across three rural sites in Kentucky:
 - St. Claire Healthcare, Morehead
 - Hazard Appalachian Regional Healthcare
 - King's Daughters, Ashland
- Screening
- Linkage to care

Ordering Facility Zip Code	RNA+ Tests	Percent	County
40031	1,201	3.1%	Oldham
40202	2,154	5.5%	Jefferson
40207	1,067	2.7%	Jefferson
40351	1,026	2.6%	Rowan
40701	793	2.0%	Whitley
41017	1,674	4.3%	Kenton
41101	808	2.1%	Boyd
41501	800	2.1%	Pike
41653	976	2.5%	Floyd
41701	1,130	2.9%	Perry
42701	1,013	2.6%	Hardin

*Prevalence of Hep C Infection identified from nontargeted screening among adult visitors in an academic Appalachian regional ED. Moore, et al. Open Forum Infectious Disease. July 2021.
**Non-Targeted hep C virus Screening in acute care health care

**Non-Targeted hep C virus Screening in acute care health care settings in the Southern Appalachian region. Chastain et al. *JACEP Open 2022;3:e12819.*, Aug. 2022

Highlights

Kentucky Maternal Morbidity & Mortality Task Force

UK Addresses Maternal Mortality

UK is home to a grant from Health Resources and Services Administration (HRSA) to form the KY Maternal Morbidity and Mortality Task Force.

Goals:

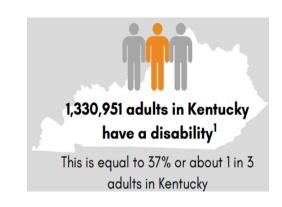
- Collect data for severe maternal morbidity from UK's Kentucky Injury Prevention and Research Center to prevent near misses.
- Expand statewide collaborations to target obstetrical causes and social determinants associated with maternal mortality.
- Expand the use of telehealth to promote access to subspecialty care.
- Expand simulation and trainings to hospitals and networks statewide, including intimate partner violence training from UK's Center for Research on Violence Against Women.

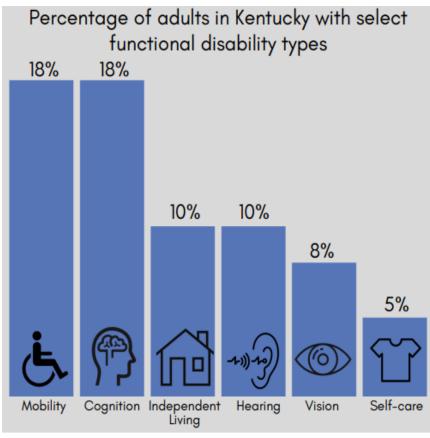


Highlights: Human Development Institute

Human Development Institute; Addressing Health and Disability in Kentucky

- Adults with a disability are more likely to report depression, obesity, diabetes, smoking, heart disease and long COVID.
- RETAIN Kentucky (US Department of Labor): Improving Return to Work outcomes for Kentuckians with injuries, illnesses and impairments.
- Kentucky LEND Leadership Education in Neurodevelopmental Disabilities (HRSA): Improving health for children with neurodevelopmental disabilities through interdisciplinary training.
- Merge (sponsor: Administration for Community Living): Improving mental health services for people with intellectual and developmental disabilities.
- Patient-Centered Outcomes Research Institute project to improve dissemination of patient-centered outcome research to Black and Hispanic new and expectant parents of children with down syndrome.





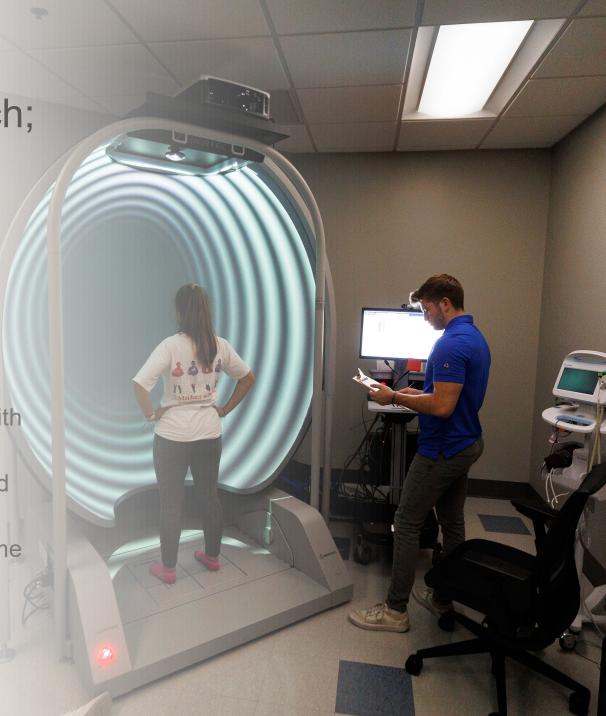
Source: CDC 2024



Highlights

College of Health Sciences Research; Reducing Disability

- Provide rehabilitation free of charge, benefiting underinsured individuals.
- Prevent injuries in firefighters and first responders in Kentucky.
- Reducing the effect of sepsis and long COVID.
- Improving community participation and quality of life.
- Promote access to assistive technology for people with disabilities.
- Distribute refurbished durable medical equipment and adapted toys throughout the Commonwealth.
- Developed a "meals that heal" resource for low-income African American women in Lexington.



Highlights: Superfund Research Center

UK Superfund Research Center; Empowering Communities Through Research

Director: Kelly G. Pennell, PhD, PE Pigman College of Engineering

Deputy Director: Kevin Pearson, PhD

College of Medicine

- Pigman College of Engineering
- College of Medicine
- College of Public Health
- College of Nursing
- Martin-Gatton College of Agriculture,
 Food and Environment

Research output over last five years:

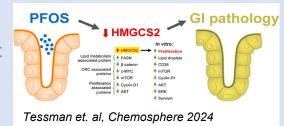
- 100 peer-reviewed publications
- 3 novel data tools
- 3 large data sets
- 4 patents for air/water treatment
- 40 grad students entered workforce



Funded since 1997 bringing more than \$45 million to UK.

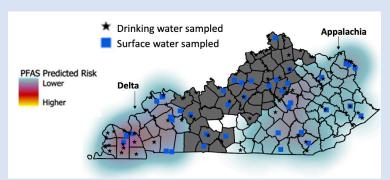
Links 'forever chemicals' with colorectal cancer

"Forever chemicals" (such as PFOS) may play an important role in understanding and preventing disproportionate colorectal cancer risks experienced by Kentuckians.



Identifies health risks and fosters informed decisions

Precision diagnostic tools help identify locations vulnerable to health risks and assess uncertainty to foster informed decisions in communities with severe resource constraints.



Advances safe drinking water locally and globally

New membrane techniques can remove pollutants from waste streams to improve availability and affordability of safe drinking water in rural areas.



Highlights

College of Social Work Research; Robust, rigorous and relevant

Housed at the Coldstream Research Campus, researchers, practitioners, academicians and students conceptualize and conduct cutting-edge research in:

- Training Resource Center
- Interdisciplinary Research Center on Children and Families
- Self-Care Lab
- Suicide Prevention and Exposure Lab
- Military Behavior Health Lab
- Kentucky Kinship Resource Center
- Institute for Facilitation Innovation



How do we advance our research mission to meet the needs of the Commonwealth?

- Cultivate and Recruit Talent
 - Recruit talent from within and outside the state.
 - Turn KY into a magnet for talented researchers.
 - Develop a pipeline of talent from within our communities.
- Invest in Talent
 - Evaluate our research priority areas to ensure alignment with state-wide needs.
 - Support for faculty effort.
- Enhance Infrastructure/Capacity to Accommodate Talent
 - Need for new or renovated research space.
 - Modernize our shared services cores.



DISCUSSION



