

Cancer and Jefferson County

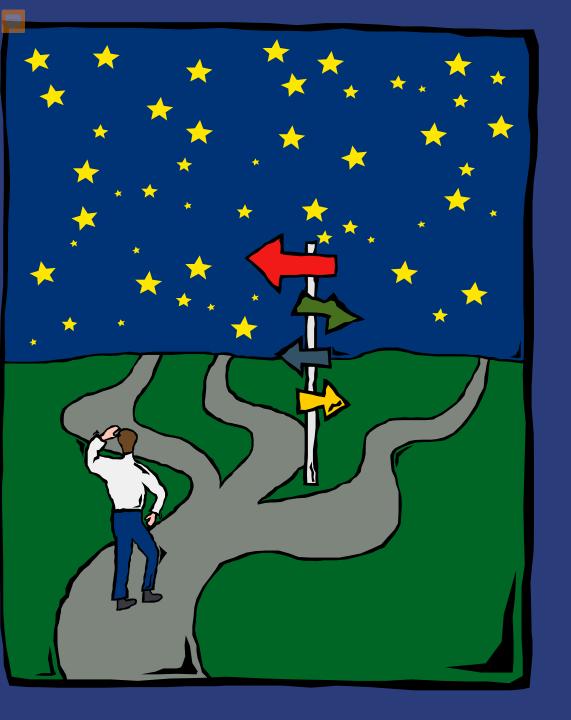
A Presentation



Prepared by the University of Louisville, School of Public Health Depts. of Epidemiology and Clinical Investigation Sciences and Occupational and Environmental Health, and the Lung Cancer Project

Should I be concerned?

- We all should be concerned about air quality and look for ways to reduce emissions of chemicals, especially air toxics
- And we should keep the risks in perspective



"Good surveillance does not necessarily ensure the making of right decision, but it reduces the chances of the wrong ones."

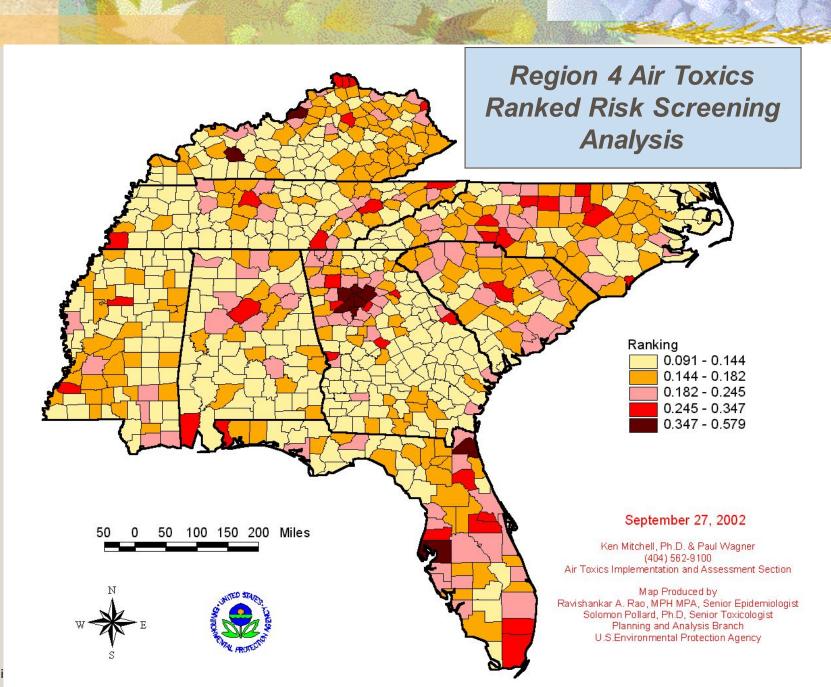
Alexander Langmuir, MD, MPH; Director of Epidemiology for CDC from 1949-1969

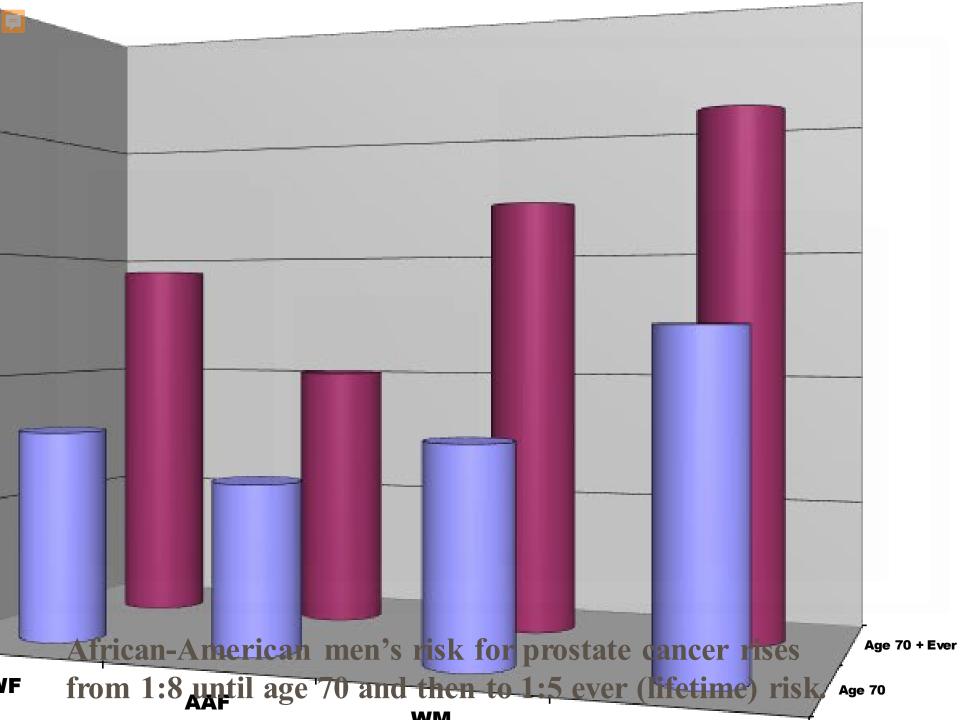
Problem Chemicals & Community Concerns

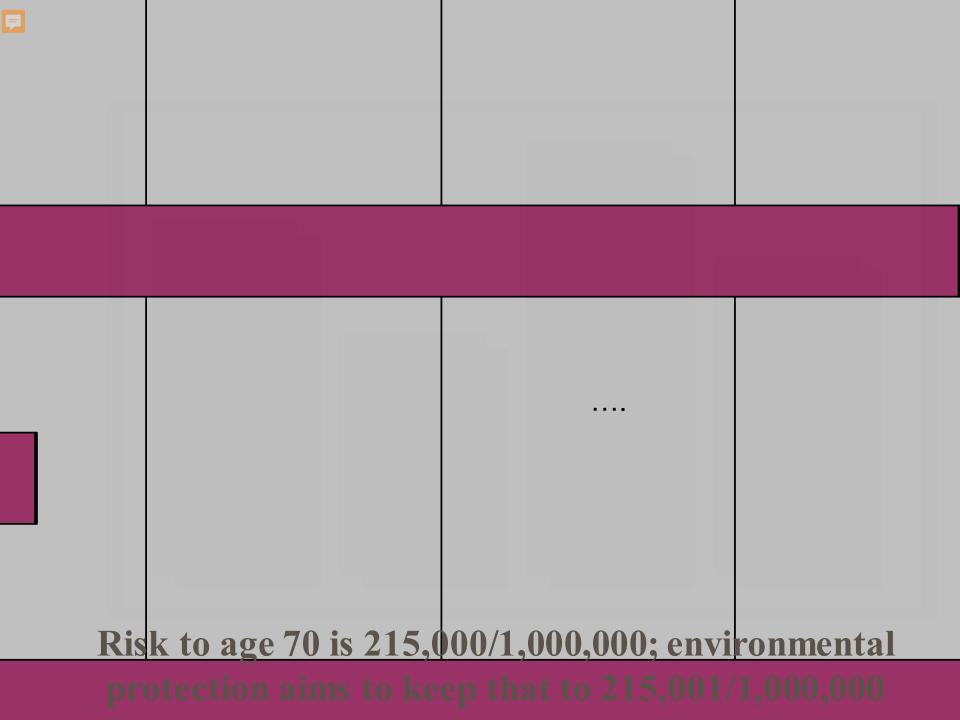
- Butadiene
 - Sources: Vehicles, 3 manufacturers (plans in place to reduce)
- Chromium
 - Sources: Electricity generation, boilers, plating
- Acrylonitrile
 - Sources: 2 manufacturers (plans in place to reduce)

Understanding cancer risk "one-in-a-million"

- Cancer risk is enormous
- "Everybody wants to go to heaven, but nobody wants to die" Aging is a critical factor in cancer increase & risk
- Environmental risk is incredibly small
- 1/1,000,000 is an enormous prevention goal, NOT a useful thing to fear

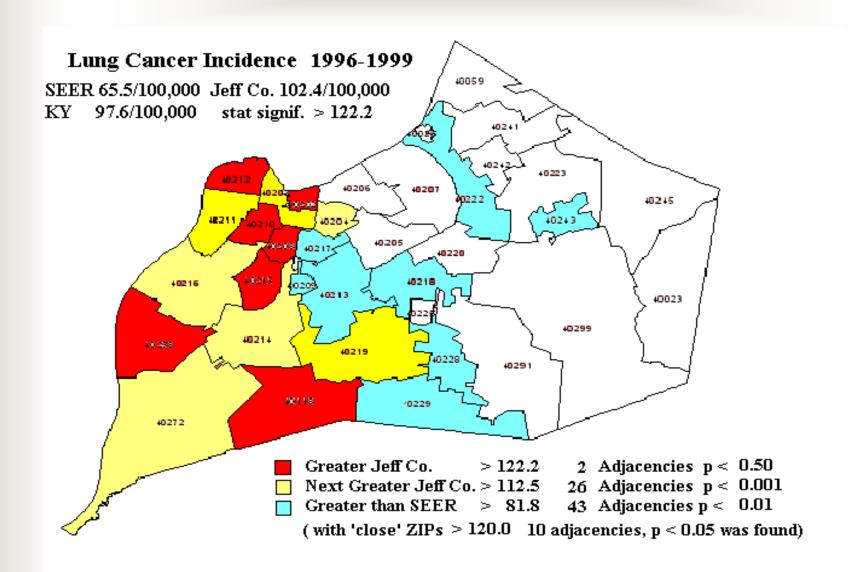


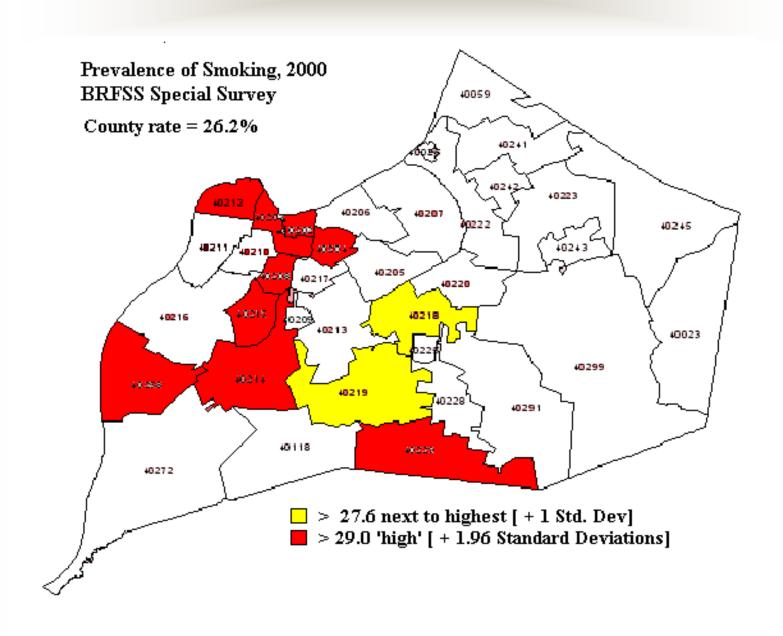


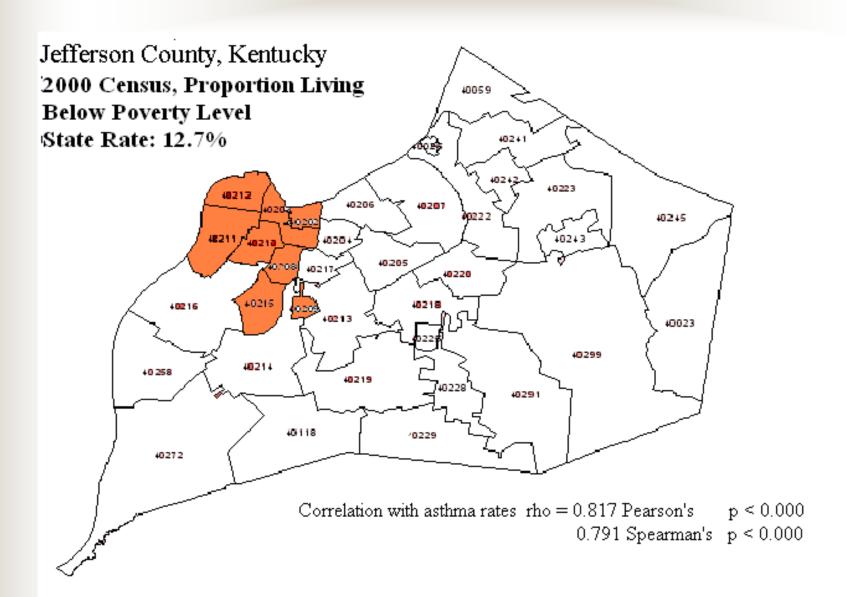


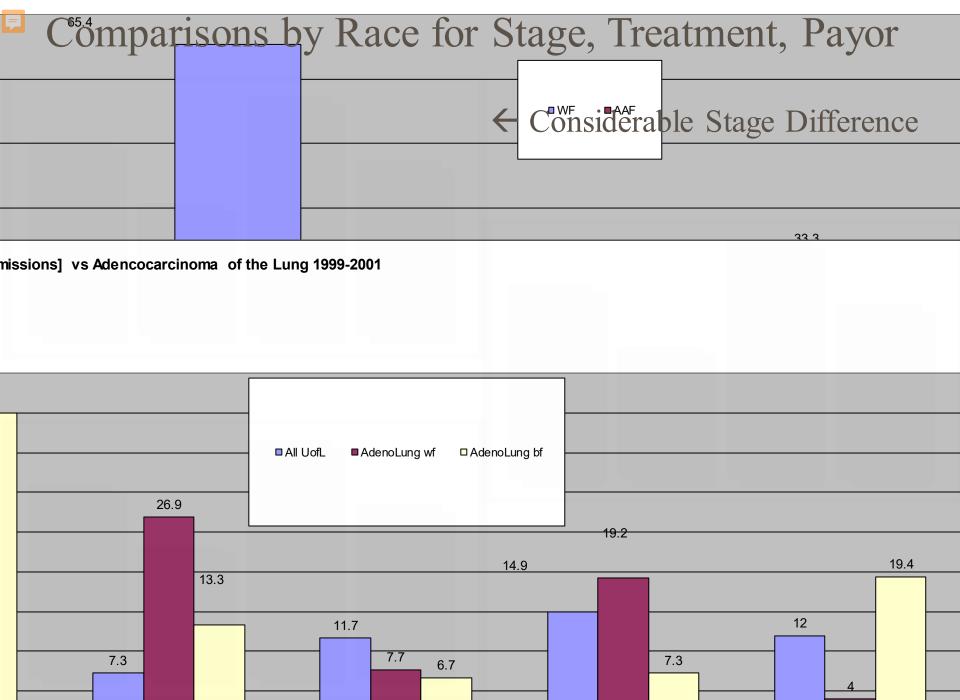
Data Monitoring in Rubbertown

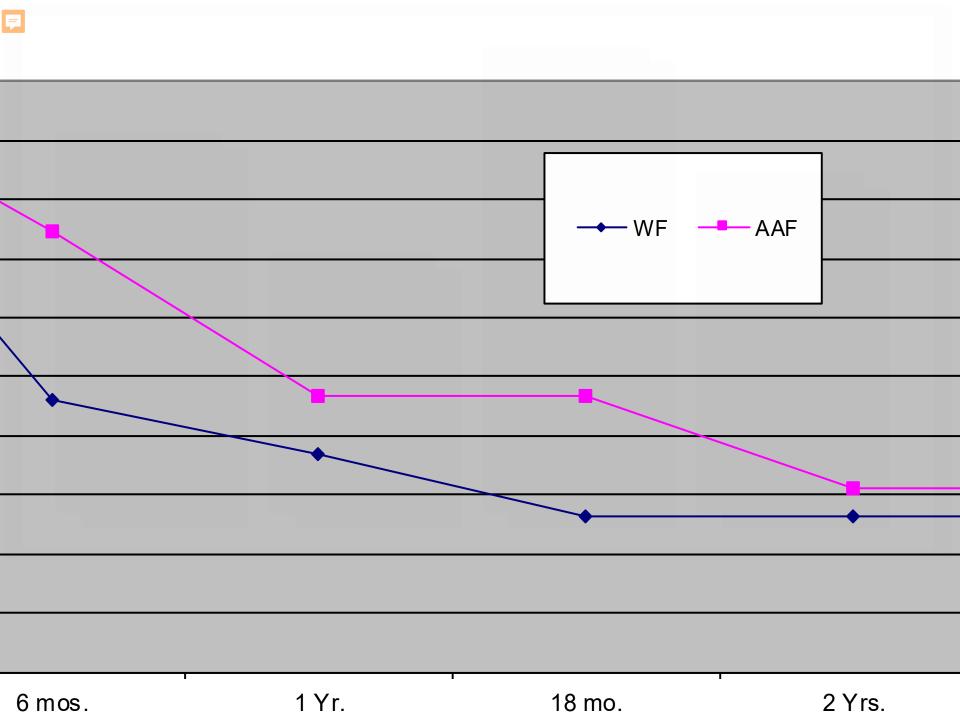
- EPA monitoring identified Jefferson County as having the highest health risk posed by air quality, in the Southeastern US.
- State funding permitted follow-up air monitoring studies to be performed in the Rubbertown area during 2001
- Disease risk is also able to be assessed for asthma and cancer.

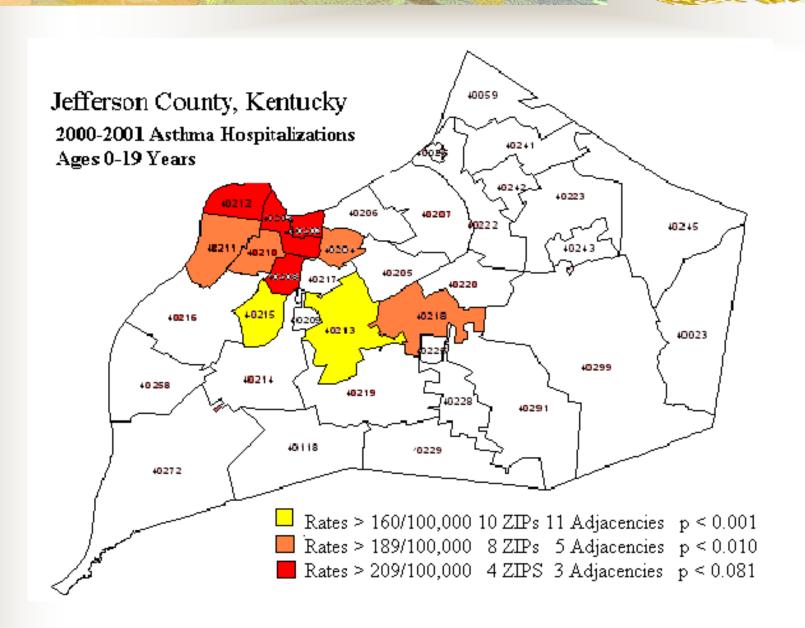


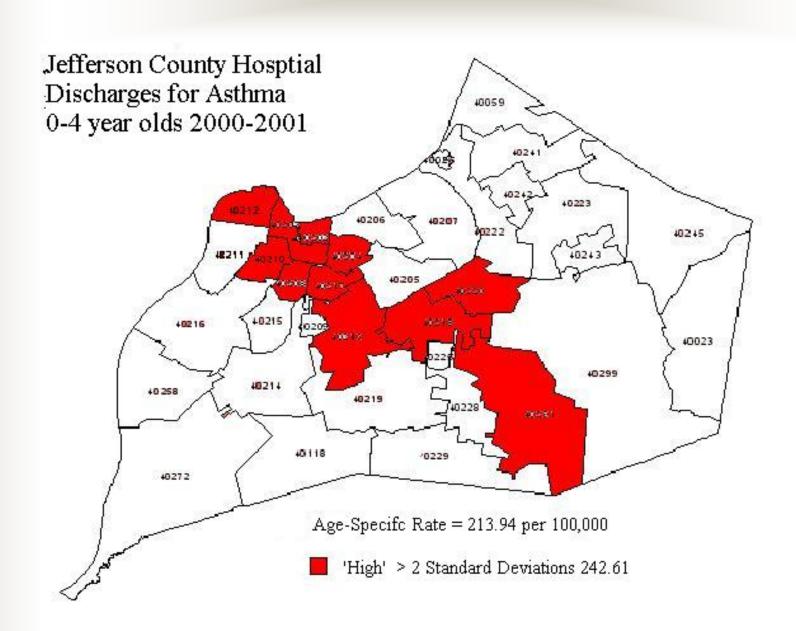








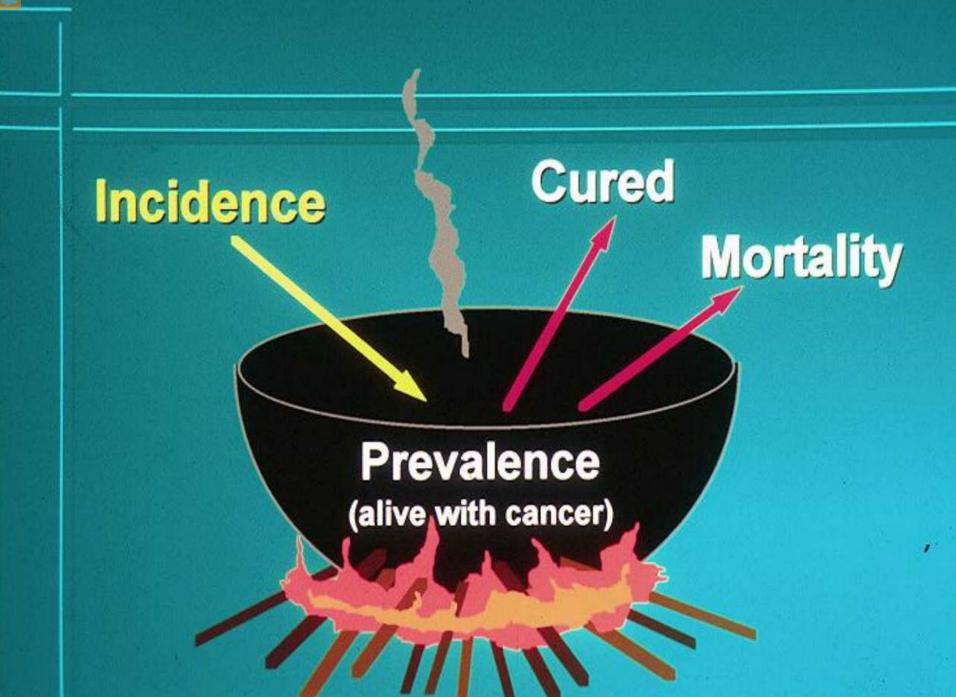




Est. % of Cancer Deaths

Factor	Best Est.	Accetbl. Ests.
Tobacco	30	25 - 40
Diet	35	10 – 70
Infection	10?	1- ?
Reproductive & Sexual History	7	1 – 13
Occupation	4	2-8
Geophysical	3	2- 4
Alcohol	3	2 - 4
Pollution	2	1 - 5
Medicines/Medical Procedures	1	0.5 - 2
Industrial Products	1	1- 2

Derived from Doll & Peto, J.N.C.I., June '81



"The reason for collecting, analyzing, and disseminating information on a disease is to control that disease. Collection and analysis should not be allowed to consume resources if action does not follow."

Foege, Hagan, Newton: International Journal of Epidemiology, 5: 29-37. 1976.

'Its amazing what you can see when you look..." Yogi Berra

Michael R. Hicks, MA

Voice: 502-852-4061 Fax: 502-852-3294

E-mail: michael.hicks@louisville.edu

Fairouz Saad, MPH

Voice: 502-852-4061 Fax: 502-852-3294

E-mail: fssaad01@louisville.edu

Tim E. Aldrich, Ph.D., MPH

Voice: 502-852-3006 Fax: 502-852-3294

E-mail: tealdr01@gwise.louisville.edu

University of Louisville School of Public Health and Information Sciences Dept. Epidemiology and Clinical Investigation Sciences Louisville, Kentucky 40202