

The Lung Cancer Research Initiative

A population-based case control-study of lung cancer in Appalachian Kentucky: The role of environmental carcinogens.

This is a University of Kentucky research study about the relationship between lung cancer and environmental risk factors. The purpose of this study is to try to understand the effects of trace elements such as arsenic and chromium, as well as radon on the development of lung cancer. By doing this study, we hope to learn why there are more lung cancers in Kentucky's fifth Congressional District than anywhere else in the nation.

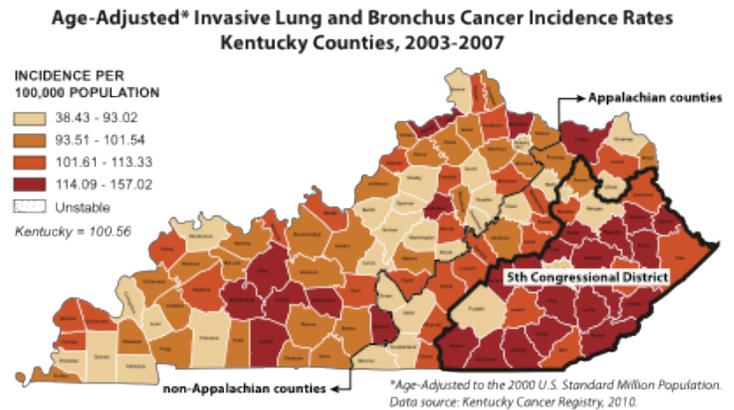


Figure 1. Lung cancer incidence 2003-2007, showing the 5th Congressional District outlined in black.

Study Specifics:

- If you volunteer for this study, you will be one of about 1800 people to do so.
- The study will occur in your home and will last about 1½ hours
- A study representative from Kentucky Homeplace will visit you at your home. You will be asked to answer questions about yourself and your home environment.
- We will also collect the following samples:
 - Toenails clipped with a regular stainless steel toenail clipper. If you cannot donate enough toenails, we will request fingernail samples.
 - Blood will be drawn from your arm (about 4 teaspoons) using a needle by a trained phlebotomist.
 - Urine sample
 - Hair (about 25 to 50 strands cut from the back of your head)
 - Tap water, air (for radon testing) and soil will be collected from your house
 - If you have been diagnosed with lung cancer, we also will request a sample of your cancer tissue that was taken when you had your biopsy or surgery (if extra tissue is available) from the pathology laboratory that made your diagnosis.
- This study will store (or bank) your specimens for future research.
- There will be no cost to you to participate and you will receive a \$30 gas card and free radon testing of your home to compensate you for taking part in the study.

For more information, please call toll-free: 1. 866.997.6372