Cancer Epidemiology

CLASS SESSIONS
Thursday, June 8, 2017; 8:30am to 5:30pm
Location: TBD
Directions can be found here: https://www.cuepisummer.org/contactpage

INSTRUCTOR
Alfred I. Neugut, MD, PhD
Professor of Medicine and Epidemiology
College of Physicians & Surgeons and Mailman School of Public Health, Columbia University
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COURSE DESCRIPTION
This course will provide the student with an understanding of the principles of cancer epidemiology research, the tools to read papers in the field critically, a familiarity with the most important studies and issues in cancer epidemiology, and an appreciation for how to apply the basic concepts of epidemiologic methodology to a specific subject area, such as cancer. Topics covered include carcinogenesis and the multistage model, cancer screening, clusters, therapy, and various genetic and lifestyle risk factors.

PREREQUISITES
None

COURSE LEARNING OBJECTIVES
By the end of the course, participants will be able to:
1. Describe basic concepts of carcinogenesis and cancer pathology and appreciate their roles in cancer causation studies
2. Demonstrate understanding of issues in cancer screening and its complexities as well as current approaches to screening
3. Discuss key biases and issues in study design that are important in chronic disease epidemiology, especially cancer epidemiology
4. Summarize basic risk factors and their putative roles in cancer etiology and prevention, as well as how to study them in chronic disease epidemiology

RECOMMENDED COURSE READING LIST

STRUCTURE
Class time is 8 hours total. The structure of the workshop will include a mixture of lecture and classroom discussion with the instructor.