



#8769

IN MEDICAL SCIENCE

Grade Levels: 11-13+

30 minutes

HISTORY ON VIDEO 1997

DESCRIPTION

Features two African American epidemiologists at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia. Each man discusses his duties, academic and professional training, and skills needed for this exacting profession. Notes that there are very few African Americans in this field.

ACADEMIC STANDARDS

Subject Area: Health

- ◆ Standard: Knows environmental and external factors that affect individual and community health
 - Benchmark: Understands how cultural diversity enriches and challenges health behaviors (e.g., various food sources of nutrients available in different cultural and ethnic cuisines, influence of cultural factors on the treatment of diseases)

Subject Area: Science

- ◆ Standard: Understands the scientific enterprise
 - Benchmark: Understands that individuals and teams contribute to science and engineering at different levels of complexity (e.g., an individual may conduct basic field studies; hundreds of people may work together on a major scientific question or technological problem)



INSTRUCTIONAL GOALS

1. To study the basic principles and methods of epidemiology.
2. To demonstrate that minorities, especially African Americans, can successfully pursue a career in the science and medical research fields.
3. To examine qualifications necessary for advanced education after high school in the science and medical fields.

AFTER SHOWING

Discussion Items and Questions

1. Describe the work that Dr. Bill Jenkins and Dr. Walter Williams perform at the Centers for Disease Control and Prevention in Atlanta, Georgia.
2. Outline the best approach students should take to prepare for a career as a medical epidemiologist.

3. Discuss and name the important skills necessary to be effective in epidemiology.
4. What academic credentials were required for Dr. Williams and Dr. Jenkins to qualify for their careers?
5. What advice does Dr. Jenkins give people to help them prepare for a career in epidemiology?
6. What steps can a person take while attending medical school to prepare for a career in medical research with a specialization in epidemiology?
7. Name at least two educational institutions where a person can earn a master's degree in public health.
8. What college did Dr. Jenkins earn his undergraduate degree and who was the president of this institution?
9. Writing is an important skill required in medical research. Name the books that Dr. Jenkins has published articles in.
10. Examine the level of minority participation in the science profession.




RELATED RESOURCES



Captioned Media Program

- Careers for the 21st Century: Scientific Occupations #8890
- Making It Happen: Masters of Invention #3380
- One Doctor: Daniel Hale Williams #8845

World Wide Web



The following Web sites complement the contents of this guide; they were selected by professionals who have experience in teaching deaf and hard of hearing students. Every effort was made to select accurate, educationally relevant, and "kid-safe" sites. However, teachers should preview them before use. The U.S. Department of Education, the National Association of the Deaf, and the Captioned Media Program do not endorse the sites and are not responsible for their content.

- **THE FACES OF SCIENCE: AFRICAN-AMERICANS IN THE SCIENCES**

<http://www.princetn.edu/~mcbrown/display/faces.html>

Profiled are African American men and women who have contributed to the advancement of science and engineering. The accomplishments of the past and present can serve as pathfinders to present and future engineers and scientists.

- **STEPS OF AN OUTBREAK INVESTIGATION**

<http://www.cdc.gov/excite/steps.htm>

From the Centers for Disease Control and Prevention, outlines and explains each step necessary to investigate infectious outbreaks. Presents several case exercises.

- **CDC**

<http://www.cdc.gov/>

Learn about the Centers for Disease Control and Prevention organization, facilities, people, and more. Contains data and statistics, hoaxes and rumors, and other topics.