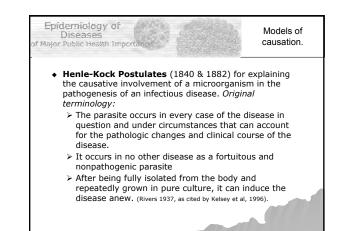
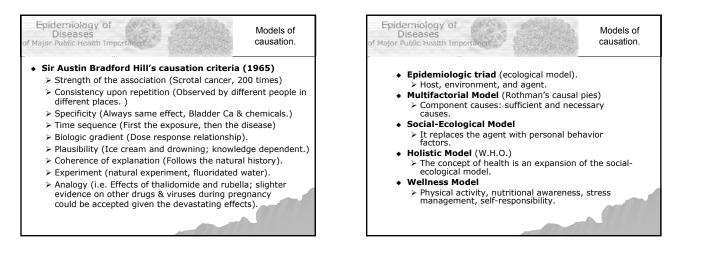


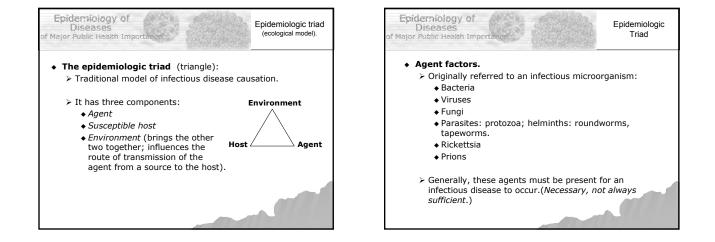
| Epidemiology of Diseases Major Public Health Importance | 'Cause' and Models of causation. |
|--|--|
| Cause of disease is defined as a factor (characteristic, behavior, event, etc.) tha the occurrence of disease. | t influences |
| Increase in the factor leads to an increase. | ease in |
| Reduction in the factor leads to a redu disease. | ction in |
| Models of causation (examples) | |
| Henle-Kock postulates | |
| Hill's causality criteria | |
| Epidemiologic triad (ecological model) | |
| Multifactorial Model (Rothman's causa | pies) |
| Social-Ecological Model | |
| Holistic Model (W.H.O.) | |
| > Wellness Model | A REAL PROPERTY AND A REAL |

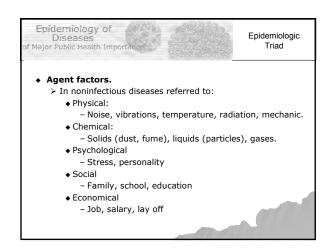


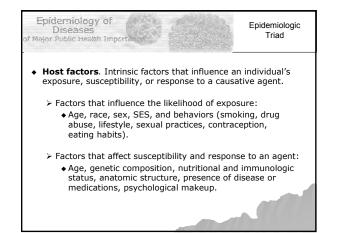
Disease Etiology.

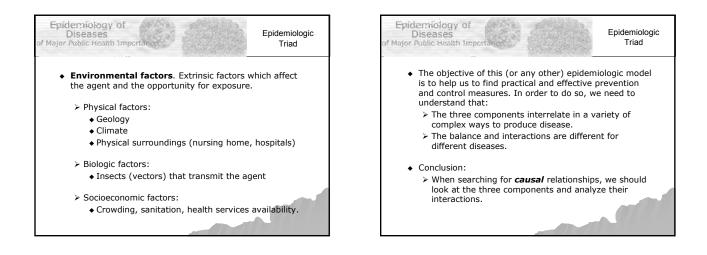
Causation

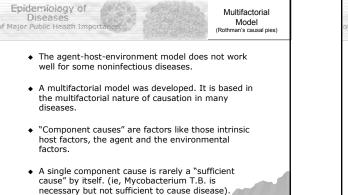


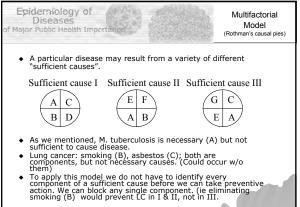


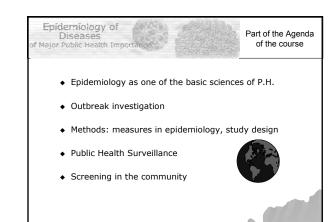




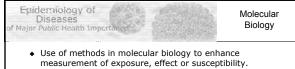




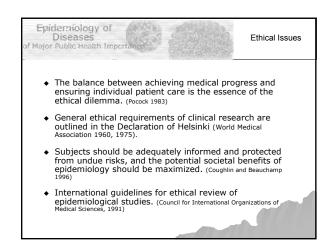




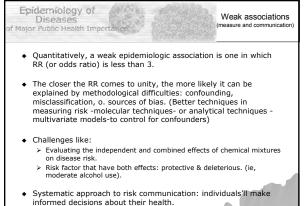
| Epidemiology of Diseases of Major Public Health Importance | Current challenges in Epidemiology |
|--|--|
| Molecular Biology | |
| Ethical Issues | |
| Weak associations | |
| Measuring outcomes & q | uality of health care |
| Settings priorities and m | leasuring progress |
| Investigating outbreaks | |
| Preventing chronic disea | ses |
| Measuring the effects of | PH interventions |
| Informing public health | policies |
| Applying computer & inference | ormation technologies |
| Increasing epid. capacity | in applied settings |
| | |
| | |

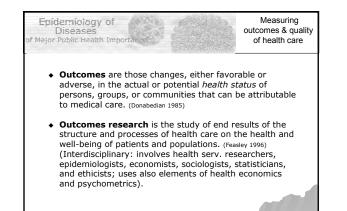


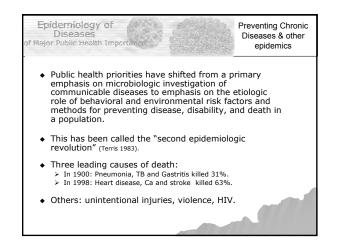
- (Therefore may led to opportunities in prevention, early detection, and treatment).
- DNA: to identify molecular damage by disease or environmental exposures that define susceptibility.
- ie. Variability in response to Carcinogen: people with predisposing genetic traits are at greater risk. (Susceptible groups can be identified and new regulations or interventions can be developed).
- Ethical questions: Mutation in gene (BRCA1-17q12-21) increases the risk of breast cancer:80-90% lifetime risk. (Inf. to patient pop-based , confidentiality, job/ins.)

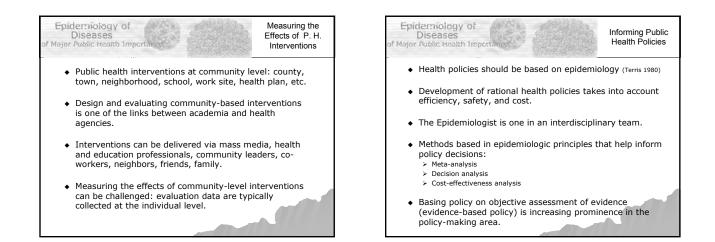






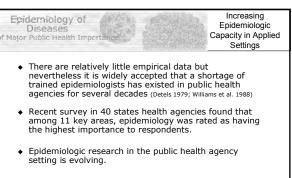








- > Expanded transmission of information:
- Analysis of secondary data:
- Enhanced information systems in PH and health care:



 Successful educational programs need to maintain close contact with public health practice. (Committee for the Study of the Future of Public Health 1988).

