



ENVIRONMENTAL HEALTH

Week 4; 6-6-12



ENVIRONMENTAL HEALTH

Environmental health is the study of the relationship between the environment and human health



ENVIRONMENTAL HEALTH DIVISIONS

- ◉ Food Quality
- ◉ Water Quality
- ◉ Air Quality
- ◉ Hazardous materials and waste management

ENVIRONMENTAL HEALTH DIVISIONS

- ◉ Bioterrorism
- ◉ Vector control
- ◉ Noise radiation protection
- ◉ Housing pool recreational facilities

PURPOSE OF EH

Goals of each of the environmental health divisions include the prevention of environmental diseases and the protection and promotion of human health

FOOD QUALITY

- ◉ Handlers properly trained
- ◉ Food safe to eat
- ◉ Food is produced according to laws



CASE STUDY/ MCH EXAMPLE

- ◉ What: Contamination of baby food
- ◉ When: 2/2007
- ◉ Clostridium Botulinum contamination
- ◉ Earths Best Organic baby food



AIR QUALITY

- Regulates activities that result in air pollution and prevent illness and death from air pollution

WATER QUALITY

- ◉ Surface and ground water are protected from contamination
- ◉ Water from public systems is safe and reliable drinking water



CASE STUDY

- ◉ Walkerton: Ontario, Canada
- ◉ May 2000
- ◉ Water contamination of E. Coli
- ◉ 7 people dead
- ◉ Many others (including children) seriously injured

HAZARDOUS MATERIALS AND WASTE MANAGEMENT

- Protects against contamination from hazardous materials
- Maintains sanitary conditions at waste facilities

EH DIVISIONS

Vector Control

- Protects human health by preventing the transmission of disease from insects and animals

Housing, Pool & Recreational Facilities Division

- Ensures that minimum sanitary and safety requirements are met

EH DIVISIONS CONT.

Noise & Radiation Protection

- Prevents exposure to harmful levels of noise and radiation

Bioterrorism Division

- Identifies potential biological agents & sources of exposure to them
- Prevents injuries or death from biological agents used as weapons

ENVIRONMENTAL HEALTH WORK

- ◉ Ensure clean air
- ◉ Ensure safe supplies of food & water
- ◉ Manage sewage and wastes
- ◉ Control or eliminate vector-borne illness

CONCLUSION

Good Health  Healthy Environment

- ◉ Elements of the Environment
- ◉ Environmental Health Divisions

FROM THE READINGS

Morello-Frosch et/ al.

- ⦿ EH factors and birth outcomes
- ⦿ Minorities and Low SES (exposed to higher rates environmental hazards)

QUESTIONS



ADDITIONAL REFERENCES / RESOURCES

- ◉ Centers for Disease Control and Prevention (CDC)
<http://www.cdc.gov/>
- ◉ The National Institute of Environmental Health Sciences
<http://www.niehs.nih.gov/>
- ◉ US Environmental Protection Agency (USEPA)
<http://www.epa.gov>
- ◉ Pacific Public Health Training Center
<http://www.pphtc.org>
- ◉ American Industrial Hygiene Association
<http://www.aiha.org/>
- ◉ CA Environmental Health Association
<http://www.ceha.org/>

ADDITIONAL REFERENCES/ RESOURCES

- Frosch-Morello, R. Shenassa, E. (2006). The Environmental “Riskscape” and Social Inequality: Implications for Explaining Maternal and Child Disparities. *Environmental Health Perspectives*, 114, 1150-1153

MIDTERM EXAM

FORMAT

- ◉ Midterm is 6/27/12
- ◉ Traditional Exam
 - multiple choice, true false, short answer, perhaps 1 essay question. (2 pts E.C.)
- ◉ Based on the readings (lecture and book) and lecture
- ◉ 1-1.5 available for exam; followed by Unnatural Causes
- ◉ Question review; wkly from now until the exam

MIDTERM REVIEW

True/ False

- ◉ Damon-Rodriguez et al 2005 concluded that African Americans reviewed health as “positive-spirit” and “good heart”

- ◉ A community ...
 - A. Can be defined by location
 - B. Can be defined by race/ ethnicity
 - C. Must have collective discussion
 - D. All of the above
 - E. A and B

FINAL PRESENTATION / EXAM

PRESENTATION

- ◉ 8/1/12
- ◉ 10-15 minute presentations (including Q&A)
- ◉ PowerPoint presentation (emailed to professor prior)
- ◉ Presented orally to the class
- ◉ Detailed grading rubric to come

PRESENTATION OUTLINE

- Introduction to the problem
 - Who, What, When, Where and Why?
- Epidemiological Assessment
 - What are the statistics? Describe the condition, prototype of the situation
- Implication for PH
 - What are the implications for PH? How is PH involved? In what ways does PH influence the issue & vice/versa?
- Midwifery Applications
 - What are the implications for Midwifery? In what ways does midwifery influence the issue and vice/versa?

FINAL EXAM

- ◉ In class written essay
- ◉ 3-5 questions
- ◉ Questions based on your specific topic