CHS 451
Post Disaster Community Health

Fall 2012
Monday 12:00 -2:50 PM
CHS  61-235

Instructor:

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Course Description:

This 4 unit graduate course will provide students with a set of strategies for addressing the impact of public health emergencies on populations both in the United States and abroad. At the conclusion of this course, students will be able to assess the needs of affected populations and formulate plans to address critical health parameters such as water, sanitation, food, shelter, and surveillance for communicable diseases.

Prerequisites:

CHS 295, Graduate Student Status, or Consent of Instructor

Required Text:

A compendium of articles has been prepared as a reader for this class.

Additional readings to be provided by instructor.

Evaluation:

Students will be evaluated on the following parameters:

10% Classroom participation
30% Assignment I
30% Assignment II
30% Assignment III
Course Objectives and Competencies:

By the end of this course students will be able to:

<table>
<thead>
<tr>
<th>Objective</th>
<th>ASPH MPH Competency</th>
<th>PHPR Competency</th>
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<tbody>
<tr>
<td>1. Assess the health needs of a disaster affected population.</td>
<td>C.3 Describe a public health problem in terms of magnitude, person, time, and place</td>
<td>2. Solve problems under emergency conditions</td>
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<tr>
<td>2. Develop and conduct an epidemiologic assessment of a disaster affected population.</td>
<td>E.3 Identify individual, organizational and community concerns, assets, resources and deficits for social and behavioral science interventions</td>
<td>2. Solve problems under emergency conditions</td>
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<td>G.10 Develop public health programs and strategies responsible to the diverse cultural values and traditions of the communities being served</td>
<td>4. Facilitate collaboration with internal and external partners</td>
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<td>K.2 Describe the tasks necessary to assure that program implementation occurs as intended</td>
<td>5. Maintain situational awareness</td>
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<td>3. Develop a plan for meeting the sanitation needs of a disaster affected population.</td>
<td>B.5 Specify approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety</td>
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<td>E.4 Identify critical stakeholders for the planning, implementation and evaluation of public health programs, policies and interventions</td>
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<td>6. Demonstrate respect for all persons and cultures</td>
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<td>Cultural values and traditions of the communities being served</td>
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<td>7.</td>
<td>Manage information related to an emergency</td>
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<td>13.</td>
<td>Contribute expertise to the development of emergency plans</td>
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<th>4. Develop a plan for providing for mass shelter and feeding needs of a disaster affected population.</th>
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<td>Encourage constructive behaviors in response to one’s or others’ emotional reactions</td>
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Classroom Participation:

In addition to engaging in discussions of classroom topics, each student will have an opportunity to make a brief summary presentation to the class concerning an article related to assessing and responding to a public health emergency. The articles may be drawn from the scientific literature (e.g. references found in the textbook readings, other journals), current events as reported in the newspapers or national news magazines, or via the internet. The purpose of this exercise is to broaden the students' thinking about the relevance of post disaster community health for a public health emergency. Thus, students should be prepared to relate their chosen articles to the principles of disaster public health.

Students will sign up for specific dates for these presentations, and provide copies of the articles for their classmates.

Assignments:

There are three written assignments for this course. Students will be assigned to groups, with each group functioning in the role of an Emergency Public Health Team. Materials will be provided to each team concerning an existing country that has been impacted by a catastrophic public health disaster. Information will be provided concerning the underlying living conditions and population parameters, as well as consequences of the disaster. Teams will be required to develop a 12 page, double spaced, 12 point font report for each assignment, addressing specific emergency public health problems based as follows:

Assignment I:
Assess the disaster impact on the target community, and address issues of potable water and sanitary hygiene.
DUE DATE: October 22

Assignment II:
Establish a surveillance and control system for communicable diseases; plan a health care program for the impacted population.
DUE DATE: November 5

Assignment III:
Develop a mass shelter and feeding plan for the target population; assess and plan a response for mental health needs and identification and care of vulnerable populations.
DUE DATE: December 7
Course Schedule

Week 1: October 1

Course Overview
Why Disasters are a Public Health Problem
Likely Emergency Public Health Problems in Need of Solutions

Readings:
- Public Health Impact of Disasters (Shoaf and Rottman)
- The Nature of Disaster (Noji)

Week 2: October 8

Tools of Rapid Assessment

Readings:
- Disaster Assessment: The Emergency Health Evaluation of a Population Affected by a Disaster (Lillibridge)
- Use of a Modified Cluster Sampling Method to Perform Rapid Needs Assessment after Hurricane Andrew (Hlady)
- A Modified Cluster Sampling Method for Post-disaster Rapid Assessment of Needs (Malilay)
- Ch. 5 Initial Assessment, Immediate Response (UNHCR)
- Rapid Epidemiological Assessment of Health Status in Displaced Populations – An Evolution toward Standardized Minimum, Essential Data Sets (Brandt)
- Rapid Assessment of Injuries Among Survivors of the Terrorist Attack on the World Trade Center (MMWR)

Week 3: October 15

Water and Sanitation

Readings:
- Ch. 16 Water (UNHCR)
- Ch. 17 Environmental Sanitation (UNHCR)
- Keeping Clean Water Clean in a Malawi Refugee Camp (Roberts)
- Restoring Sanitation Services After an Earthquake: Field Experience in Bam, Iran (Pinera)
- Recommended Methods for the Disposal of Sanitary Wastes from Temporary Field Medical Facilities (Reed)
Week 4: October 22

**Infectious Diseases: Surveillance and Control Strategies**

Readings:
- Infectious Disease Emergencies in Disasters (Howard)
- Stop Propagating Disaster Myths (de Ville de Goyet)
- Infectious Disease Control in a Long-term Refugee Camp (Elias)
- The Communicable Disease Surveillance System in Kosovar (Brusin)
- Tuberculosis in East Timorese Refugees (Kelly)
- Emergency Measles Control Activities-Darfur (MMWR)
- Disease and Dislocation: the Impact of Refugee Movements on the Geography of Malaria in NWFP, Pakistan (Kazmi)
- Communicable Diseases in Complex Emergencies: Impact and Challenges (Connolly)

Week 5: October 29

*American Public Health Association 140th Annual Meeting*

**Health Care Services for Displaced Populations**

Readings:
- The Health Care System (Perrin)
- Medical Care of Displaced Populations (Perrin)
- Inappropriate Drug-Donation Practices in Bosnia and Herzegovina, 1992 to 1996 (Berckmans)

Week 6: November 5

**Mental Health Considerations**

Readings:
- Predictors of Posttraumatic Stress Disorder and Symptoms in Adults: A Meta-Analysis (Ozer)
- Severity, Timing and Duration of Reactions to Trauma in the Population: An Example from Mexico (Norris)
- Chapter 49.16 Impact of Terrorism on Children (Pynoos)
- Symptoms of Posttraumatic Stress Disorder and Depression among Children in Tsunami-Affected Areas in Southern Thailand (Thienkrua)
- Surveillance of World Trade Center Disaster Health Effects among Survivors of Collapsed and Damaged Buildings (MMWR)

Week 7: November 12

**No Class: Veterans Day**
Week 8: November 19

**Mass Sheltering and Feeding**

Reading:
- Public Nutrition in Complex Emergencies (Young)
- Ch. 15 Food and Nutrition (UNHCR)
- Comparison of nutrient composition of refugee rations and pet foods (Tomkins)
- The Unseen Face of Humanitarian Crisis in Eastern Democratic Republic of Congo (Porignon)
- Ch. 12 Site Selection, Planning and Shelter (UNHCR)
- Dilemmas and Challenges for the Shelter Sector (Saunders)

Week 9: November 26

**Vulnerable Populations**

Readings:
- Targeting the Vulnerable in Emergency Situations (Davis)
- Women, Health and Humanitarian Aid in Conflict (Palmer)
- Planning Reproductive Health in Conflict: A Conceptual Framework (Busza)
- Where Giving Birth is a Forecast of Death: Maternal Mortality in Four Districts of Afghanistan, 1999-2002 (Bartlett)
- What Happened to Elderly People in the Great Hanshin Earthquake (Tanida)
- Health Needs of Older Adults Displaced to Sudan (Godfrey)

Week 10: December 3

**Disaster to Development**