School of Health Technology and Management
Health Science Program
Spring 2013

HAN472: Weapons of Mass Destruction & Terrorism: Biological, Nuclear, Incendiary, Chemical and Explosive Agents (3 Credits)
Professor: Randin S. Miller
Office Hours: By appointment
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Description: Comprehensive overview of the biological, nuclear, incendiary, chemical, and explosive agents that are most likely to be used as Weapons of Mass Destruction (WMD’s). The focus of the course will be to expand on the Emergency Medical Service (EMS) provider’s training in responding to conventional Hazardous Materials (HAZMAT) incidents and focus on the recognition and management of incidents involving bioterrorism, chemical, and nuclear weapons and overall terrorism events.

Goal: To establish a strong foundation in the recognition and management of terrorism to utilizes biological, nuclear, incendiary, chemical, and explosive agents to better prepare EMS providers for the workforce.

Behavioral Objectives: Upon completion of this course students will be able to:
1. Define the terms Weapons of Mass Destruction, bioterrorism, biothreat, and biocrime
2. Differentiate between overt and covert bioterrorism events.
3. Outline the nature and consequences of primary vs. secondary bioterror attacks.
4. Discuss the different levels of personal protective equipment (PPE)
5. Demonstrate the ability to match varying levels of PPE to different types of WMD threats
6. Recognize and discuss several chemical agents likely to be used as WMD’s
7. Discuss treatment modalities related to chemical agents including use of potential antidotes.
8. Recognize and discuss several biological agents likely to be used as WMD’s
9. Discuss treatment modalities related to biological agents.
10. Recognize and discuss several radiological agents likely to be used as WMD’s
11. Discuss treatment modalities related to radiological/nuclear exposures.
12. Discuss the importance of time, distance, and shielding as they relate to an incident involving radiological agents.
13. Discuss common explosive/incendiary devices and special considerations for the first responder.
14. Discuss the public health implications and the role of EMS in the identification of a biothreat or WMD incident.
15. Demonstrate the capability to access the scene of a terrorist attack in regards to number of casualties, their symptoms, and treatment procedures.
16. Demonstrate the ability to set and secure primary and secondary perimeters.
17. Describe the terms “Hot Zone”, “Warm Zone”, and “Cold Zone” as they relate to WMD incidents.
18. Describe the decontamination guidelines and differentiate between “Gross Decon”, “Secondary Decon”, and “Definitive Decon.”
19. Describe triage systems as they relate to patients requiring decontamination

Text: Medical Response To Terrorism: Preparedness & Clinical Practice by: Keys, Burstein, Schwartz and Swienton

Teaching Strategies: Lecture
               Large group discussion
               Small Group Work

Evaluation: Quizzes 50%
            Midterm 25%
            Final 25%

Blackboard Information:

You can access class information on-line at: http://blackboard.sunysb.edu
If you used Blackboard during the 2009-2010 Academic Year and/or Summer 2009, your login information (Username and Password) has not changed.
If you have never used Stony Brook’s Blackboard system, your initial password is your SOLAR ID# and your username is the same as your Stony Brook (sparky) username, which is generally your first initial and the first 7 letters of your last name.

For help or more information see: http://www.sinc.sunysb.edu/helpdesk/docs/blackboard/bbstudent.php
For problems logging in, go to the helpdesk in the Main Library SINC Site or the Union SINC Site, you can also call: 631-632-9602 or e-mail: helpme@ic.sunysb.edu

Course Outline:

January 23  Weapons of Mass Destruction & Terrorism Overview
            Classifying Agents
January 30  Personal Protective Equipment
            Responder Safety
February 6  Chemical Agents
            Epidemiology and clinical characteristics
            Treatment protocols
Americans with Disabilities Act:

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.
Academic Integrity:

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report and suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (Schools of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/uaa/academicjudiciary/

Critical Incident Management:

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and School of Medicine are required to follow their school-specific procedures.