Course Title: Tuberculosis (TB): A View from the Trenches

Course Number: QNME 0638

Course Location: ICPH Building, 225 Warren Street, Newark

Course Date & Time: Odd Year Summer, Tuesday and Thursdays 5:30pm – 8:30pm

Course Instructor: Mark Wolman, MPH, Adjunct Instructor, SPH, Program Manager TB Control, Global TB Institute, International Center for Public Health
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973-972-3828

Office Hours: By Appointment Only

Course Assistant: None

Required Course Text: CDC Core Curriculum

Additional/Supplemental Readings/Resources: additional online readings, as assigned

Course Description: This course is being presented for those students pursuing degrees in either public health or medicine and whose intent is to broaden their knowledge base in the field of tuberculosis.

Selected Department Competencies Addressed: Each Department identifies competencies for each degree offered. The competencies addressed in this course for the MPH and MS for the Department of Quantitative Methods: Epidemiology and Biostatistics include:

- Use epidemiologic concepts to identify and evaluate public health and clinical problems
- Develop research protocols to assess public health problems, clinical questions and evaluate public health programs
- Critically evaluate epidemiological data and findings
- Communicate results from epidemiologic studies
- Utilize behavioral and social sciences concepts to determine the relationships between health, culture, and community
- Describe important epidemiologic challenges on the local, national, and international level
- Identify the principles and limitations of public health screening programs
- Understand basics of infectious disease pathology, diagnosis, treatment and identification of risk factors

Please visit the Department webpages on the School of Public Health’s website at http://sph.rutgers.edu/ for additional competencies addressed by this course for other degrees and departments.
Course Objectives: By the completion of this course, students will be able to:

- Explain the goals of a TB Control Program
- Describe the transmission and pathogenesis of tuberculosis
- Define adherence and why it is important to tuberculosis treatment
- Explain the components of case management in a TB Control program
- Describe the role of the public health disease investigator in a TB Control program
- Explain the global impact on the reported number of tuberculosis cases in the United States
- Explain the role of molecular epidemiology in a TB Control program and understand how the principles of molecular biology can be utilized in a TB Control program
- List the components of legal intervention as they are currently enforced in the state of New Jersey

Course Requirements and Grading: In this section, Instructor should include

- Class format includes a didactic lecture followed by group interaction in the form of role plays, exercises and discussion. Guess speakers with TB experience in specific fields will be invited to speak and facilitate the learning process. Participants, either individually or in a group, will review or summarize existing literature on such topics as patient adherence, large-scale contact investigations and molecular biology for presentation and generation of class discussion.

- A list of activities, assignments, projects, exams, etc. that contribute to course grade, and the respective point/percentage value of each. For example:
  1. Mid-term Examination 30 pts.
  2. Final Examination 30 pts.
  3. Project & Presentation 30 pts.
  4. Class Participation 10 pts
  5. Total: 100 pts.

- Grading Scale:
  - A
  - A-
  - B+
  - B
  - B-
  - C+
  - C
  - F
Course Schedule:

Assignments and assigned readings are due weekly.

Session 1  Introduction to the course
Discussion of assignments
TB: Global to local
TB 101

Session 2  TB Epidemiology

Session 3  Microbiology
Molecular epidemiology

Session 4  TB transmission and pathogenesis

Session 5  Principles of field investigation

Session 6  Fundamentals of contact investigation

Session 7  Congregate Setting Contact Investigations
Legal Intervention

Session 8  Mid-term Examination

Session 9  Discussion of class projects

Session 10  Tuberculosis Case Management

Session 11  Transcultural Concepts in Nursing care

Session 12  Pediatric TB

Session 13  Class Project Presentations

Session 14  Final examination

School of Public Health Honor Code: The School of Public Health Honor Code is found in the student bulletin (sph.rutgers.edu/academics/catalog/index.html). Each student bears a fundamental responsibility for maintaining academic integrity and intellectual honesty in his or her graduate work. For example, all students are expected to observe the generally accepted principles of scholarly work, to submit their own rather than another's work, to refrain from falsifying data, and to refrain from receiving and/or giving aid on examinations or other assigned work requiring independent effort. In submitting
written material, the writer takes full responsibility for the work as a whole and implies that, except as properly noted by use of quotation marks, footnotes, etc., both the ideas and the works used are his or her own. In addition to maintaining personal academic integrity, each student is expected to contribute to the academic integrity of the school community by not facilitating inappropriate use of her/his own work by others and by reporting acts of academic dishonesty by others to an appropriate school authority. It should be clearly understood that plagiarism, cheating, or other forms of academic dishonesty will not be tolerated and can lead to sanctions up to and including separation from the Rutgers School of Public Health.

Policy Concerning Use of Recording Devices and Other Electronic Communications Systems:
When personally owned communication/recording devices are used by students to record lectures and/or classroom lessons, such use must be authorized by the faculty member or instructor who must give either oral or written permission prior to the start of the semester and identify restrictions, if any, on the use of mobile communications or recording devices.