

SAN DIEGO STATE UNIVERSITY
College of Health and Human Services
Graduate School of Public Health
Division of Epidemiology and Biostatistics

Course No. PH 726 – Spring 2007
Epidemiology of HIV and AIDS

Day: Wednesday
Time: 1000-1240

Instructor: S. Brodine, M.D.
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Place: HH 122

Office Hours: By Appt.
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RESOURCES:

Texts:

- Stine *AIDS Update 2007*. Prentice Hall, 2007. (Required)

Films:

- Darell Roodt's "Yesterday," 2004 (Required)
- Roger Spottiswoode's "And the Band Played On," 1993 (Optional)
- Fernando Meirelles' "The Constant Gardener," 2005 (Optional)

GRADING POLICY:

Basis of Grade:

- **Class Participation** **20%**
 - Students will research and present in powerpoint an HIV topic as a team (15%):
 - 1.) Country case study
 - 2.) Draft recommendations for a prevention or treatment aspect for a global HIV program
 - Anonymous evaluation by team members (5%)
- **Exam (Midterm)** ***Take home 40%**
- **Final Exam- Ambush Theater:** **40%**
 - Risk group & Bibliography (5%)
 - Research a population that is at-risk for HIV/AIDS.
 - Description of risk group and risk factors (15%)
 - Prepare a 3 page written paper (include references) that describes the risk group you selected, and documentations for their current situation, why they are at risk, and what are the risk factors.
 - Script & Documentation (10%)
 - Group work (n = 4) (Group leader). Select a theme and target population based on risk group research paper.
 - Hand in script with documentation
 - Production & Performance (10%)
 - Write and perform a script

Standards (at the graduate level in attainment of educational objectives):

- A = Superior performance
- B = Adequate performance
- C = Less than adequate
- D = Fail

OVERALL OBJECTIVES:

To prepare the MPH graduate to:

- Describe the epidemiology of HIV to include global patterns, recent trends, modes of transmission, and characteristics of target populations
- Describe the surveillance and reporting of HIV/AIDS in the U.S. and internationally
- Describe the pathophysiology, clinical course, and prognostic indicators of HIV
- Describe approaches to HIV prevention, including screening and counseling, antiretroviral prophylaxis (perinatal, post—exposure), behavioral interventions, needle exchange programs, community based interventions, and the status of HIV vaccines

SPECIFIC OBJECTIVES

1) Gain Knowledge in Population Health Issues:

- Learn determinants that influence the distribution of HIV infection within populations.
- Understand the factors that promote health and prevent HIV infection in populations.

2) Gain Knowledge in Central Epidemiologic Principles, as they Relate to Infectious Diseases:

- Apply the basic epidemiologic concepts of the causal chain model, the natural history of disease, incidence, prevalence, case-fatality, and mortality rates, to HIV infection and AIDS.
- Become familiar with study design issues in HIV research.

3) Gain Knowledge in Assessing Public Health Data and the Collection of Data:

- Learn the principles of surveillance as they pertain to the HIV epidemic (e.g., the systematic approach for planning, collecting, and processing of information in a research and practice setting).

4) Gain Knowledge in Critically Interpreting the Published Literature:

- Able to retrieve, organize, and review a body of literature on HIV and AIDS (including via the web).
- Able to critically evaluate the content and methodology, and interpret the published literature in HIV/AIDS.

5) Gain Communication Skills

- Practice in communicating a scientific presentation clearly and concisely.

PH 726: Class Schedule

(** Meeting outside of classroom on this day. Check Blackboard for location/directions)

Date	Subject
Jan 24	<u>Course Overview; Global Impact of HIV/AIDS (Brodine);</u> Assignment: <i>Yesterday</i>
Jan 31	<u>Historical Aspects; Origins, Global Patterns (Brodine); HIV and National Security (Brodine)</u> Due: Stine: Chapters 1, 2, 8 Article: <i>The Lessons of HIV/AIDS</i> (Laurie Garrett)
Feb 7	<u>Natural History; Diagnostics; Clinical Outcomes (Brodine)</u> Due: Stine: Chapters 6, 7 Film: <i>Yesterday</i> (discussion)
Feb 14	<u>CROI Overview (Brodine); Group work</u>
Feb 21	<u>Treatment Strategies (Dr. Nancy Crum)</u> Due: Stine: Chapters 4, 5, 9 Articles: - <i>Antiretroviral Therapy in a Thousand Patients with AIDS in Haiti</i> - <i>Response to Antiretroviral Therapy in HIV-infected Patients Attending a Public, Urban Clinic</i>
Feb 28	<u>Christie's Place (Deborah Paul)</u> Due: Stine: Chapter 6 (pg. 151-154) Team presentations
Mar 7	<u>County Health Department, AIDS Division (Lorri Freitas, MPH)</u> Due: Stine: Chapters 10, 11 Team presentations continued
Mar 14	<u>**Balboa Naval Hospital HIV Clinical Ward (Seroconvertors: Clinical & Public Health Approach)</u> Due: Stine: Chapter 4 Chapter 9 (pg. 247 – 265)
Mar 21	<u>**Health and Human Services Agency, STD clinic & Laboratory (Gunn)</u> Due: Stine: Chapter 8 (pg. 230 – 231) & 9 Background and bibliography for Ambush Theater due <u>MIDTERM distributed</u>
Mar 28	<u>Spring Break!!</u>
Apr 4	<u>HIV Prevention: Overview (Brodine)</u>
Apr 11	<u>**Mother, Adolescent, Child Unit-UCSD (Caffery)*</u> Due: Stine: Chapter 11 Chapter 8 (pg. 232 – 234) Midterm due !!
Apr 18	<u>Intravenous Drug Users, (Dr. Robin Pollini)</u> Due: Stine: Chapter 8 (pg. 220-223, 265-266) <u>Commercial Sex Workers; Men Having Sex with Men (Dr. Lydia Drumwright)</u> Due: Stine: Chapter 8 (pg. 212-214, 301-302)

Apr 25 **Course Review; Midterm Review (Brodine)**

May 2 ***San Diego EPI EXCHANGE* ****

Script for Ambush Theater due

May 9 ****Ambush Theater (Faculty Club)**