

**PUB HLTH 524**  
**CARDIOVASCULAR DISEASE EPIDEMIOLOGY – 1.0 Credit**

**Spring Quarter, 2007:** March 27 – June 5, 2007

**Lectures:** Tuesdays, 6:00 – 9:00 PM

**Location:** 680 North Lake Shore Drive, Suite 1102

**Course instructor:** Martha L. Daviglus, MD, PhD  
Professor of Preventive Medicine and Medicine (Geriatrics)  
(312) 908-7914 (office)  
(312) 908-9588 (fax)  
Email: daviglus@northwestern.edu

**Office hours:** Tuesdays 4:00 – 6:00 PM

**Assistant/Co-Lecturer:** Liviu Klein, MD, MS  
(312) 695-0008 (office)  
(312) 604-7380 (fax)  
Email: lklein@northwestern.edu

**Course description:** The course will cover selected topics in cardiovascular disease with critical analysis of the current epidemiologic literature. Students will have the opportunity to study methodological issues, contemporary findings, and recommendations for future research.

**Prerequisites:** PH 302 Introduction to Biostatistics or CLIN PSY 426 Research Methods  
*and*  
PH 304 (Introduction to Epidemiology)

**Enrollment:** Limited to 10 students.

**Required readings:** Journal articles will be posted on Blackboard one week before each class.

**Learning objectives:** The student will develop skills of critical reading and will be able to describe and evaluate:

1. Current knowledge related to cardiovascular disease risk factors and outcomes;
2. Methods used in analyses of associations between risk factors and cardiovascular disease endpoints;
3. Methods used in screening and diagnosis of cardiovascular disease;
4. Prevention and treatment of cardiovascular disease;
5. Special research problems, major research directions, and methodological challenges related to cardiovascular disease epidemiology

**Course Evaluation:** The Programs in Public Health administer web-based course evaluations to students for each course near the end of the quarter. Your completion of both the unit (course) and faculty evaluation components is required; failure to complete either of the evaluations will result in an incomplete grade until the evaluations are submitted. You will be sent the web link and instructions via email later in the quarter. You will have about two weeks time to complete the evaluations before grades are submitted.

**Format:**

Informal lectures, discussion of articles assigned for the class.  
 Each student will be expected to lead the discussion (critical reading) of one assigned paper per class (allotted time 20 minutes/paper).  
 Each student will write a short paper from a list of topics on cardiovascular disease that will be available at the beginning of the quarter. Topics must be chosen within 2 weeks of starting the course and must be approved by the course instructor. Each paper must be typed and have between 2000 and 2400 words.  
 Each student will also prepare an informal presentation of the issues described in his/her term paper (in PowerPoint). Each presentation may not exceed 15 minutes. The term paper is due on the day of presentation.

<b><u>Student Evaluation:</u></b>	Participation in discussions	30%
	Presentation of assigned project	20%
	Writing of a paper	50%

**Schedule of classes and topics**

<b>Date</b>	<b>Topic</b>	<b>Speaker</b>
3/27/07	Global perspective on cardiovascular disease. Atherosclerotic process. Coronary heart disease. Cerebrovascular disease.	Martha Daviglius
4/03/07	Lipid disorders.	Donald Lloyd-Jones
4/10/07	Hypertension/ Smoking	Martha Daviglius
4/17/07	Diet/ Nutrition.	Arlene McDonald
4/24/07	Physical activity/ Obesity.	Karen Coleman (San Diego, CA)
5/01/07	Diabetes mellitus/ Metabolic syndrome.	Mercedes Carnethon
5/08/07	Emerging risk factors (CRP, CAC, homocysteine, Lp(a), PLA2)	Mary Cushman (Burlington, VT)
5/15/07	Psychosocial factors.	Bonnie Spring
5/22/07	Chronic heart failure	Liviu Klein
5/29/07	Peripheral vascular disease.	Mary McDermott
6/05/07	Student presentations. Papers due.	