

Epidemiology of Aging
Course-Syllabus

Autumn ۲۰۱۶

Department of Epidemiology

School of Public Health

Iran University of Medical Sciences

Number: ۰۰۱۱۲۰۰۰۰

Title: Epidemiology of Aging

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Description:

This course will review and discuss about health changes in late life, covering a broad range of topics, including social and biological models of aging; disability, cognitive decline and dementia; quality of life; and health care issues. The course will be offered seminarstyle, with each class consisting of lecture presentation and class-discussion of selected readings from the gerontological literature.

By the end of the semester, students will be able to:

- Critically evaluate and synthesize the scientific literature and develop new hypotheses to address gaps in our knowledge
- Demonstrate mastery in a substantive area of population health, and in this area integrate relevant biological, behavioral, and social mechanisms that operate at multiple levels of causation
- Demonstrate excellent skills in the writing of scientific papers and grant applications

Prerequisites: Basic courses in epidemiological methods

Requirements for course credit:

۱-Students are required to make two brief presentations during course

۲-Students will select a recent article from a refereed scientific journal that articulates with the topic of that class session (recent refers to publications in ۲۰۱۰ or later).

Class topics and Schedule: Monday, ۱۰-۱۲ (۱۴ PM)

Course text : Anne B. Newman • Jane A. Cauley **The Epidemiology of Aging.** Springer. ۲۰۱۲

Assignment details:

Students are required to make an essay (۶۰٪) about on aging , participate in class (۲۰٪) and final exam (۲۰٪)..

Course Outline:

Week	Topic	Approximate coverage
۱	Concept of aging , theoretical approach	۲ hours
۲	Demography of Aging	۲ hours
۳	Conducting case-control and cohort study in older adults	۲ hours
۴	Study design ; Trials	۲ hours
۵	Target Populations, Recruitment, Retention, and Optimal Testing Methods: Methodological Issues for Studies in the Epidemiology of Aging	۲ hours
۶	Assessing Functional Status and Disability in Epidemiologic Studies	۲ hours
۷	Measurement of Social Factors in Aging Research.	۲ hours
۸	Lifecourse Epidemiology and Aging	۲ hours
۹	Nutritional Epidemiology in Aging	۲ hours
۱۰	Epidemiology of Falls and Mobility Disorders	۲ hours
۱۱	Medication Use in Older Adults	۲ hours
۱۲	Dementia and Alzheimer's Disease	۲ hours
۱۳	Depression and Other Common Mental Health Disorders in Old Age	۲ hours
۱۴	National aging program in Iran	۲ hours
۱۵	Class Presentation	۲ hours
۱۶	Class presentation	۲ hours