

General Attitudes

MS1 Courses

Competency Topic	Description	Course	Method
Myths and Stereotypes	Communicating with an older patient	Physical Diagnosis	Lecture
Myths and Stereotypes	Discussion of stereotyping and heterogeneity of older populations	Nutrition	Lecture
Heterogeneity	In longevity, cognition, personality, mood	Psychiatry	Lecture
Heterogeneity	Nutrition can have a significant impact on the rate of aging	Nutrition	Lecture
Openness and willingness to work with other disciplines	Interdisciplinary health care team	Doctor/Patient Relationship	Lecture
Openness and willingness to work with other disciplines	Working with teams of health care providers	Social Medicine	Small Group
Compassion	Developing empathetic connections between physicians and patients; nonverbal communication	Doctor/Patient Relationship	Lecture
Compassion	Communicating with an older patient	Physical Diagnosis	Lecture
Attitude Toward a Career in Geriatrics	Attitude Toward a Career in Geriatrics	Survey	Survey
Attitudes Toward the Elderly	Attitudes Toward the Elderly	Survey	Survey
Geriatrics Attitudes Scale	UCLA Geriatrics Attitudes Scale	Survey	Survey

General Knowledge-Related to the Basic Sciences

Competency Topic	Description	Course	Method
Demography and Epidemiology	Increasing numbers; life expectancy	Psychiatry	Lecture
Demography and Epidemiology	The future of medicine; community-oriented primary care	Social Medicine	Lectures
Demography and Epidemiology	Healthy nutritional lifestyle can improve life expectancy and quality of life	Nutrition	Module
Theories of Aging	Caloric restriction; reactive oxygen species; post-translational modification of proteins: glycosylation	Biochemistry	Lecture
Theories of Aging	Premature aging syndromes and telomere shortening	Hematology	Lecture
Theories of Aging	Aging, immunology and immunosenescence; oxidative stress; cytokine dysregulation	Immunology	Lecture
Theories of Aging	Free radicals	Pathology	Lecture
Theories of Aging	Oxidative stress; caloric restriction	Nutrition	Module

General Knowledge-Related to the Basic Sciences (continued)

Competency Topic	Description	Course	Method
"Normal" Aging is Heterogeneous	Longevity and cognition, personality, and mood	Psychiatry	Lecture
"Normal" Aging is Heterogeneous	Loss of lean body mass and aging	Nutrition	Module
Preventable, Treatable Aging Processes	Disuse atrophy	Physiology	Lecture
Preventable, Treatable Aging Processes	Sun exposure of skin and aging	Histology	Lecture
Preventable, Treatable Aging Processes	Nutrition health behaviors and successful aging; nutritional recommendations; strength training and healthy aging; vitamin intake and aging	Nutrition	Module
Anatomic and Histologic Changes	Neuronal tissue histology correlated with Alzheimer's and Parkinson's disease	Histology	Lecture
Pathology	Aging cartilage; osteoporosis	Histology	Lecture
Pathology	Immunobiology of aging	Immunology	Lecture
Pathology	Increasing frequency of urinary tract infections with increasing age	Microbiology	Lecture
Pathology	Alzheimer's disease and neurofibrillary tangles/amyloid; brain and myocardial infarcts	Pathology	Lecture
Physiology	Electrolytes and water transport	Physiology	Lecture
Physiology	Changes in various organ systems with aging	Psychiatry	Lecture
Physiology	Decline is normal but varies markedly from system to system	Nutrition	Module
Pharmacologic Changes	Toxicity of amino glycosides; general emphasis on need for adequate renal function with antibiotics excreted by kidney; and caution for use in elderly who frequently have impaired renal clearance of many of these drugs	Microbiology	Lecture
Pharmacologic Changes	Biologic changes affecting pharmacologic treatment	Psychiatry	Lecture
Pharmacologic Changes	Clinical pharmacokinetics - altered drug elimination in elderly; changes in volume of distribution with age; factors mitigating against medication compliance	Pharmacology	Lecture

General Knowledge-Related to the Clinical Practice

Competency Topic	Description	Course	Method
Dementia	Amyloid & relationship to Alzheimer's disease; aggregation of misfolded proteins in Alzheimer's and Parkinson's disease	Biochemistry	Lecture
Dementia	Alzheimer's disease	Genetics	Lecture
Dementia	Alzheimer's & Parkinson's diseases as major causes of death	Pathology	Lecture
Dementia	Alzheimer's disease and inheritance; cognition and aging	Psychiatry	Lecture

General Knowledge-Related to the Clinical Practice (continued)

Competency Topic	Description	Course	Method
Depression	Mood disorders and neurotransmission; depression and associated medical diseases; depression and brain imaging; human aging; bereavement and grief	Psychiatry	Lecture
Falls	Fall statistics; subdural hematoma	Pathology	Lecture
Osteoporosis	Intrinsic (deep) muscles of the back and vertebral column (kyphosis)	Gross Anatomy	Lecture
Osteoporosis	Changes in resorption/formation of bone with aging	Histology	Lecture
Non-specific Presentation of Disease	Presentation of older patient with low white blood count with acute infection	Pathology	Lecture

Knowledge of Disease and Disorders

Competency Topic	Description	Course	Method
Rheumatologic Diseases	Glucosamine/chondroitin & osteoarthritis; gout	Biochemistry	Lecture
Rheumatologic Diseases	Myology of the upper limb (rotator cuff)	Gross Anatomy	Lecture
Rheumatologic Diseases	Dermatomyositis; age and malignancy	Pathology	Lecture
Genito-urological Diseases	Midgut and hindgut (colon cancer)	Gross Anatomy	Lecture
Neurological Diseases	Neurotransmitters and Parkinson's disease	Biochemistry	Lecture
Neurological Diseases	Stroke; Ach receptors; GABA receptors; L-DOPA & Parkinson's disease; neurotransmitter serotonin & depression	General Physiology	Lecture
Neurological Diseases	Multi-infarct dementia	Pathology	Lecture
Neurological Diseases	Parkinson's disease and neurotransmitters; psychological dimensions of aging	Psychiatry	Lecture
Cardiovascular Diseases	Acute myocardial infarction resulting from reduced oxygen supply	Biochemistry	Lecture
Cardiovascular Diseases	Heart and middle mediastinum (coronary artery disease); posterior abdominal wall (abdominal aortic aneurysm); superior and posterior mediastina (aortic aneurysm)	Gross Anatomy	Lecture
Cardiovascular Diseases	Increase of vascular resistance with aging	Histology	Lecture
Cardiovascular Diseases	Cardiovascular disease	Genetics	Lecture
Cardiovascular Diseases	Age as a risk factor for cardiovascular disease; aneurysm of aorta; peripheral vascular disease and claudication	Pathology	Lecture
Cardiovascular Diseases	Lidocaine dosing in older patient; antioxidants and heart disease	Pharmacology	Lecture
Endocrinological Diseases	Insulin resistance; type 2 diabetes mellitus	Biochemistry	Lecture

Knowledge of Disease and Disorders (continued)

Competency Topic	Description	Course	Method
Endocrinological Diseases	Diabetes mellitus and aging	Histology	Lecture
Endocrinological Diseases	Diabetes mellitus	Genetics	Lecture
Cancer of Various Organs	Anterior thoracic wall; breast and lymphatic system (breast cancer); male reproductive system (benign prostatic hypertrophy and carcinoma of prostate)	Gross Anatomy	Lecture
Cancer of Various Organs	Prostate cancer	Histology	Lecture
Cancer of Various Organs	Hyperosmolar coma and non-insulin-dependent diabetes mellitus	Pathology	Lecture
Infections	Immunologic dysfunction and infection in elderly	Immunology	Lecture
Infections	Strep group B as source of infection in elderly; salmonella infection and elderly; anaplasma phagocytophilum and elderly; mycobacterium and long-term care facilities; malaria in elderly female with compromised immunity; astrovirus and nursing home infections; influenza and vaccination	Microbiology	Lecture
Gastroenterological Disorders	Gall stones and aging	Histology	Lecture
Gastroenterological Disorders	Poor nutrition in the elderly	Pharmacology	Lecture
Psychiatric Diseases	Parkinson's disease and neurotransmitters; psychological dimensions of aging	Psychiatry	Lecture
Other Disease and Disorders	B12 and pernicious anemia	Histology	Lecture

Knowledge of Psychosocial Issues

Competency Topic	Description	Course	Method
Normal Behavioral Late-Life Changes	Attitude toward aging, retirement, death of loved one & own mortality	Psychiatry	Lecture
Psychopathology	Normal grief versus pathologic grief; stages of grief; depression	Psychiatry	Lecture
Community Resources	Social support and caregivers	Psychiatry	Lecture
Community Resources	Small group experience in aging-related community services - a portion of students choose this activity	Social Medicine	Small Group
Adaptation to Care in Alternative Living Situations	Assisted living and nursing home	Psychiatry	Lecture

Knowledge of Prevention

Competency Topic	Description	Course	Method
Primary Prevention	<i>Preventive Health Care</i>	Social Medicine	Lecture
Primary Prevention	Nutritional recommendations for successful aging	Nutrition	Module
Primary Prevention	Pneumococcal vaccination; influenza vaccination	Pulmonary	Lecture

Knowledge of Ethical Issues

Competency Topic	Description	Course	Method
End-of-Life Care	Attitudes toward death; giving bad news	Psychiatry	Lecture