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Fellow American College of Chest Physicians
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Board Certified – Internal Medicine
Board Certified – Pulmonary Medicine

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CURRICULUM VITAE

MEDICAL PRACTICE:

Internal Medicine and Chest Medicine: 1983 – present
Preventive Cardiology and Anti-Aging Medicine: 2005 – present

Emergency Medicine: Glendale Memorial, Santa Marta, and
Daniel Freeman Hospitals; LAC/USC Medical Center; 1978-1988

Practice Specialties:

Cardiopulmonary Medicine and Medical Physiology

**MEDICAL-LEGAL
CONSULTING PRACTICE:**

Case review and evaluation; deposition and trial appearance for
Personal injury and medical malpractice cases: 1984 – present

Areas of Expertise:

*Causation, Disability, and Life Expectancy in Complex, Multi-
System Catastrophic Injury Cases*

PATHOLOGY EXPERIENCE:

Autopsy Assistant, Hektoen Institute, Division of Pathology;
Cook County Hospital, Chicago, Illinois; 1975 – 1976

Laboratory Assistant, West Suburban Hospital, Oak Park, Illinois;
1972 – 1973

**ACADEMIC APPOINTMENTS/
TEACHING EXPERIENCE:**

Associate Clinical Professor of Medicine at University of California
Riverside School of Medicine; Lecturer in Physiology: 1997-present

Lecture Series:

*Pathophysiology and Mechanisms of Disease: Practicum
For Second-Year Medical Students*

Associate Clinical Professor of Medicine at University of California
Irvine Department of Anatomy; Guest Lecturer: 1995 – 2005

LA County/USC Medical Center, Department of Internal Medicine;
Attending Physician: 1986 – 1997

National College of Chiropractic, Lombard, Illinois, Department of
Anatomy; Teaching Assistant Human Anatomy: 1973 – 1974

University of Illinois College of Medicine, Department of Anatomy;
Teaching Assistant Human Anatomy & Neuroanatomy: 1972-1974

EDUCATION:

Illinois State University, Departments of Chemistry and Biology,
Major: Chemistry; Minor: Biology – Bachelor of Science, 1971

University of Illinois, College of Medicine, Department of Human
Anatomy and Neuroanatomy – Masters of Science, 1974

University of Illinois, College of Medicine – Doctor of
Medicine, 1977

**POST DOCTORATE
EDUCATION:**

Internship: University of Southern California, Los Angeles County
Medical Center; Rotating Intern; 1977 – 1978

Residency: University of Southern California, Los Angeles County
Medical Center; Internal Medicine; 1978 – 1980

Chief Resident: University of Southern California, Los Angeles
County Medical Center; Internal Medicine; 1980 – 1981

Fellowship: University of California Irvine Medical Center;
Pulmonary and Critical Care Medicine; 1981 – 1983

**CURRENT SOCIETY
AFFILIATIONS:**

American College of Chest Physicians: 1980 – present
American Academy of Anti-Aging Medicine: 2004 – present
Forensic Expert Witness Association: 2008 – present

**RESEARCH AND
PUBLICATIONS:**

Research on the histological effects of long-term sensory
deprivation in the cat visual system: 1971 -1974

Specific Afferent Projection to Cat Visual Cortex - Master's Thesis,
University of Illinois; Chicago, Illinois, 1974

"Respiratory Diseases: Diagnostics, Prevention and Therapeutic
Interventions". In *Health Practitioner's Guide to Anti-Aging and
Regenerative Medicine 1st ed.* A4M Publications: Chicago, 2009;
313-367

"Respiratory Diseases and Impairments: Diagnostics, Prevention
and Therapeutic Interventions". In *Encyclopedia of Clinical Anti-
Aging Medicine and Regenerative Biomedical Technologies.* A4M
Publications: Chicago, 2012; 539-568

"Respiratory Diseases and Impairments: Considerations in
Special Environments". In *Anti-Aging Therapeutics, Vol.XV,*
American Academy of Anti-Aging Medicine: Chicago, 2013;95-105

"Respiratory Diseases and Impairments: Diagnostics, Prevention
and Therapeutic Interventions". In *Guide to Anti-Aging and
Regenerative Medicine,* eds. Drs. Ronald Klatz and Robert
Goldman. A4M Publications: Chicago, 2013-2015; 577-606

MEDICAL FELLOWSHIPS:

American College of Chest Physicians, 1993
American Academy of Anti-Aging Medicine, 2005

LECTURE SERIES TOPICS:

- Acid-Base Physiology
- Acute Myocardial Infarction
- Acute Respiratory Failure
- Adult Respiratory Distress Syndrome
- Arterial Blood Gas Interpretation
- Cardiopulmonary Interaction
- Chronic Lung Disease (COPD)
- Chronic Respiratory Failure
- Cor Pulmonale
- Cystic Fibrosis
- Diseases of the Chest Wall
- Exercise Physiology
- Hypersensitivity Pneumonitis
- Lung Mechanics
- Occupational Lung Disease
- Pathogenesis of Atherosclerosis
- Pathophysiology of Coronary Artery Disease
- Pathophysiology of Lung Sounds
- Pediatric Lung Disease
- Physiologic Manifestations of Stress
- Pulmonary Effects of Smoking
- Pulmonary Embolism
- Pulmonary Function Testing
- Respiratory Muscle Physiology
- Tissue Oxygenation
- Ventilation Perfusion Relationships

CME COURSE WORK:

American College of Chest Physicians Annual Updates – 1986 to present:

- Acute respiratory failure/acute lung injury
- Asbestos related disorders
- Bronchiectasis
- Cardiac arrhythmias
- Cardiogenic shock/congestive heart failure
- Chest radiology and imaging
- Chronic anticoagulation
- Chronic lung disease
- Coronary artery disease
- Deep venous thrombosis
- Difficult airway management
- Exercise Physiology
- Exercise testing
- Fiber optic bronchoscopy
- Hemodynamic monitoring
- Intensive care unit infections
- Interstitial lung disease
- Lung transplant
- Mechanical ventilation management
- Multiple system organ failure
- Obstructive sleep apnea
- Occupational lung disease
- Perioperative care
- Pleural effusions
- Pulmonary artery hypertension
- Pulmonary embolism
- Pulmonary function testing
- Pulmonary pathology
- Pulmonary physiology
- Pulmonary vascular disease
- Respiratory infections
- Respiratory muscle physiology
- Severe asthma
- Severe pneumonias
- Sleep disorders
- Staging of lung cancer
- The critically ill pregnant patient
- Thoracic surgery
- Tuberculosis and fungal infections

CME COURSEWORK CONTINUED:

American Academy of Anti-Aging Medicine Annual Updates – 2005 to present:

- Adrenal fatigue
- Adult hormone deficiency
- Aging and telomere rejuvenation
- Andropause
- Antioxidant biochemistry
- Cardiac risk of metabolic syndrome
- Cellular aging
- Cellular biology and obesity
- Chronic fatigue syndrome/fibromyalgia
- Chronic inflammation resulting from obesity
- Coronary artery disease resulting from chronic inflammation
- Hormone replacement therapy and chronic obstructive pulmonary disease
- Hormone testing
- Hypogonadism
- Impact of testosterone on the heart
- Menopause
- Metabolic and cardiovascular effects of obesity
- Metabolic complications of statins
- Metabolic treatment of traumatic brain injury
- Neuroendocrine interactions
- Nutrition as medicine
- Nutritional deficiencies in athletes
- Nutritional deficiency
- Omega-3 fatty acids and chronic inflammation
- Pathophysiology of chronic inflammation
- Pathophysiology of metabolic syndrome – insulin resistance
- Physiology of aging
- Physiology of micronutrients
- Stem cell therapy
- Supplement use in hypertension and diabetes
- Testosterone physiology
- Therapeutic use of nutritional supplements
- Thyroid deficiency
- Vascular aging
- Weight management