

CURRICULUM VITAE

Robert Dale (Bob) Langer, M.D., M.P.H.

Titles:

Associate Dean for Clinical and Translational Research
University of Nevada School of Medicine

Professor, University of Nevada School of Medicine, Department of Family Medicine -
Las Vegas

Principal Scientist and Medical Director
Jackson Hole Center for Preventive Medicine, Jackson, Wyoming

Office Phone:

(702) 944-2866 or (213) 537-4397

Cell Phone:

(619) 993-4360

Office

University of Nevada School of Medicine, Office of Medical Research
1701 W. Charleston Boulevard, Suite 290

Addresses:

Las Vegas, NV 89102

Jackson Hole Center for Preventive Medicine
555 E. Broadway, Suite 108
Jackson, WY 83001

Email:

rdlanger@jhcpm.com

HIGHER EDUCATION:

College

Tufts College
Medford, Massachusetts
Bachelor of Arts (English), *cum laude* - 1972

Medical School:

University of Illinois at the Medical Center, Chicago
Abraham Lincoln School of Medicine
Doctor of Medicine, *James Scholar* – 1978

Graduate School in
Public Health:

San Diego State University, Graduate School of Public Health, Masters in Public
Health with specialization in Epidemiology – 1988

POST-DOCTORAL TRAINING:

Residency in Family Overlook Family Practice Program

Medicine:

Overlook Hospital - a teaching affiliate of Columbia College of Physicians and Surgeons, (one year), Summit, New Jersey, 1978 – 1979

Residency in University of California - San Diego State University, General Preventive

Preventive Medicine: Medicine Program, San Diego, California, 1986 – 1988

BOARD CERTIFICATION, LICENSURE and FELLOWSHIPS:

Medical California Physician and Surgeon Certificate (since 1979)

License:

Pennsylvania Medical Physician and Surgeon Certificate (since 2005)

Wyoming Physician/Surgeon Certificate (since 2007)

Colorado Physician and Surgeon Certificate (since 2010)

Board Diplomate of the American Board of Preventive Medicine, 1992

Certification:

Fellowships: American Academy of Family Physicians (1988), American Heart Association Council on Epidemiology and Prevention (1991), American College of Preventive Medicine (1993)

PROFESSIONAL EXPERIENCE:

- Aug 1979* – Staff Physician at (*concurrent part-time positions*):
- Feb 1980:*
- Chicano Community Clinic, 1809 National Avenue, San Diego, California
 - East County Community Clinic, 205 Prescott, El Cajon, California
 - Kaiser Permanente Medical Group, Department of Family Practice, Urgent Appointments Clinic, Zion Hospital, San Diego, California
- Feb 1980* – Physician and Managing Partner, The Center For Health Medical Group, a prevention-oriented family practice, San Diego, California
- June 1986:*
- Jul 1986* – Resident in General Preventive Medicine, University of California, San Diego and graduate student in Public Health, San Diego State University
- June 1988:*
- Jul 1988* – Assistant to Associate Professor, Department of Family and Preventive Medicine, Division of Epidemiology, University of California, San Diego, School of Medicine, La Jolla, California
- June 2000:*
- Jun 2000* – Professor of Family and Preventive Medicine, University of California, San Diego, La Jolla, California
- Sept 2005:*
- Sept 2005* – Director, Outcomes Research Institute, Geisinger Health System, Danville, Pennsylvania
- Dec 2008*
- Mar 2006* – Adjunct Professor of Epidemiology, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, Pennsylvania
- Dec 2008*
- Nov 2008-present*
- Epidemiology and Preventive Medicine, Jackson, Wyoming
- Jun 2009-Jun 2012* Adjunct Scholar in Epidemiology, University of Pennsylvania Center for Clinical Epidemiology and Biostatistics
- Jan 2010-Jun 2012* Adjunct Professor, University of Nevada School of Medicine, Department of Family Medicine – Las Vegas
- Jun 2012-present* Professor, University of Nevada School of Medicine, Department of Family Medicine – Las Vegas
- Aug 2012-2016* Research Professor, University of Nevada, Las Vegas, School of Allied Health Sciences
- Dec 2012-present* Associate Dean for Clinical and Translational Research, University of Nevada School of Medicine

RESEARCH:

As Principal Investigator (from most recent), # left at UNLV, ^left at Geisinger, * left at UCSD

- 2013- Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN). National
2018# Institute of General Medical Sciences – NIH. A comprehensive program to accelerate the development of capacity, and the necessary institutional culture change, to advance clinical and translational research in 7 western IDeA States (AK, ID, HI, MT, NM, NV, WY) to the benefit of our culturally diverse, diffuse and often remote, underserved populations. The CTR-IN serves a consortium of 13 universities distributed across a sparsely populated region that represents 1/3 of the US landmass. (PI)
- 2008- An Algorithm to Improve Performance on a Quality Measure for Acute Bronchitis. National
2011^ Center for Infectious Diseases, Centers for Disease Control. A cluster-randomized clinical trial to assess the effect of an algorithm to reduce inappropriate prescription of antibiotics in acute bronchitis in outpatient clinics. Conducted in collaboration with the University of Pennsylvania and the University of California, San Francisco. (Site PI)
- 2007- Community-Based Control and Persistence of Warfarin Therapy and Associated Rates and
2010^ Predictors of Adverse Clinical Events in Atrial Fibrillation and Venous Thromboembolic Disease. National Heart, Lung and Blood Institute. A collaborative retrospective study conducted within the Cardiovascular Research Network using electronic health records. (Site PI)
- 2007 – Cardiovascular Research Network. National Heart, Lung and Blood Institute. A national
2012^ collaborative research group focused on cardiovascular research using patient populations from 7 member institutions of the HMO Research network (Site PI).
- 2007 – Cancer Research Network. National Cancer Institute. A national collaborative research group
2012^ focused on cancer research using patient populations from 7 member institutions of the HMO Research network (Site PI).
- 2007 – Distributed Research Network. Agency for Healthcare Research and Quality. Design, develop
2009 and implement a scalable distributed research network linking multiple large integrated U.S. health systems (Site PI).
- 2007 – Predictors of Endometriosis in an Integrated Health System. GlaxoSmithKline. Evaluation of risk
2008 factors for incident endometriosis in patients cared for by a large integrated health system. (PI)
- 2006 – Optimal Second Line Therapy for Hypertension. Agency for Healthcare Research and
2010 Quality. Analysis of the Geisinger Clinic population longitudinal clinical dataset to assess the patterns of antihypertensive medication use and outcomes associated with different treatments

initiated after failure on monotherapy. (PI)

- 2006 – Predictors of Physician and Patient Compliance with Antihypertensive and Lipid Treatment. Pfizer, Inc. Collaborative analysis of primary care populations from the Geisinger Clinic and the University of Pennsylvania to assess the patterns of antihypertensive and lipid-lowering medication use and evaluate the predictors of appropriate initiation and maintenance of treatment. (Site PI)
- 2006 – Newer Sedative-Hypnotics and Cancer. Scripps Clinic Foundation and Dr. Daniel Kripke. Secondary analyses using the Geisinger Clinic population longitudinal dataset to determine if there is an association between use of new sedative/hypnotic drugs and incident cancer or death. (PI)
- 2006 – Adjuvant Chemotherapy for Stage III Colorectal Cancer – Compliance and Outcomes. American Cancer Society. Analyses linking the tumor registry and the longitudinal clinical dataset for the Geisinger Clinic population to assess demographic and medical factors influencing compliance with adjuvant chemotherapy for stage III colorectal cancer, and outcomes according to treatment compliance. (PI)
- 2006 – Patterns of Medication Use for Chronic Pain. Ortho-McNeil, Inc. Analyses of the Geisinger Clinic population longitudinal clinical dataset to determine the patterns of use of medications for chronic pain by patient demographics, by associated diagnoses and by comorbidities. (PI)
- 2005 – MAP.3/ExCel. A phase III randomized study of exemestane versus placebo in postmenopausal women at increased risk of developing breast cancer. National Cancer Institute of Canada. A clinical trial evaluating exemestane, an aromatase inhibitor, for the primary prevention of breast cancer in postmenopausal women at high risk of developing the disease (Site PI).
- 2005 – Prevention of Lung Function Decline with Vitamin E and Selenium (Respiratory Ancillary Study), Southwest Oncology Group/NIH. An ancillary clinical trial to SELECT evaluating the effects of Vitamin E and or Selenium on the progression of chronic obstructive lung disease in men at elevated risk for this condition (Site PI).
- 2005 – Normative Aging Study (a substudy of PREADVISE). Southwest Oncology Group/National Institute of Aging. An ancillary prospective follow-up study nested within SELECT evaluating cognitive function over time in men aged 62 and older (60 and older for African American or Hispanic) (Site PI).
- 2003 – Phase 3 multi-center, double-blind, randomized, parallel group, carotid B-mode ultrasound evaluation of the anti-atherosclerotic efficacy, safety, and tolerability of fixed combination CP-529,414/atorvastatin, administered orally, once daily (QD) for 24 months, compared with atorvastatin alone, in subjects with mixed hyperlipidemia. Pfizer, Inc. A clinical trial evaluating the efficacy of an approved statin drug combined with an experimental drug that works in a different way for improving cholesterol levels in subjects with mixed hyperlipidemia (Site PI).

- 2004 – A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Phase III Study of Rosuvastatin
2008* (Crestor®) 20 mg in the Primary Prevention of Cardiovascular Events Among Subjects with Low Levels of LDL-Cholesterol and Elevated Levels of C-Reactive Protein (JUPITER). AstraZeneca Pharmaceuticals Inc. A clinical trial evaluating the efficacy of a newly approved statin for reduction of C-Reactive Protein (CRP) subjects with normal LDL and high levels of CRP (Site PI).
- 2004 – Prevention of Alzheimer’s Disease with Vitamin E and Selenium (PREADVISE). Southwest
2013* Oncology Group/National Institute of Aging. An ancillary clinical trial to SELECT evaluating the potential for Vitamin E and or Selenium to prevent cognitive decline or dementia in men aged 62 and older (60 and older for African American or Hispanic) (Site PI).
- 2002 – Fracture incidence reduction and safety of TSE-424 (bazedoxifene acetate) compared to placebo
2004 and raloxifene in osteoporotic postmenopausal women. Wyeth Ayerst Pharmaceuticals. A clinical trial evaluating the efficacy of an experimental drug in comparison to raloxifene and placebo in reducing the incidence of new vertebral fractures in osteoporotic postmenopausal women (Site PI).
- 2001 – Selenium and Vitamin E Cancer Prevention Trial (SELECT). Southwest Oncology
2013* Group/National Cancer Institute. A clinical trial testing selenium and/or vitamin E to reduce the incidence of primary prostate cancer in men aged >55 years (>50 for African American or Hispanic) (Site PI, competitively enrolled largest number of participants among >400 sites, member of the National Steering Committee).
- 2002- Longevity Consortium. National Institute on Aging. A consortium of scientists, from those who
2012 study very simple biologic systems with replication times measured in hours, through those who study long-lived human populations, brought together to collaborate, inform one another, and quickly test findings across disciplines. The goal is to find mechanisms related to aging that may lead to interventions to improve human longevity (Site PI).
- 1993 – Vanguard Clinical Centers For The Women’s Health Initiative (WHI). National Heart, Lung and
2005 Blood Institute - NIH. A clinical trial and observational study of cardiovascular disease, breast and colorectal cancers and osteoporosis in 160,000 postmenopausal women nationwide. 5600 women are enrolled at the UCSD center (Site PI of the 3rd largest of 40 sites, Chair of the National Investigators Committee, Chair of the National Observational Study Committee).
- 1996 – The Effects of Hormone Therapy on the Development and Progression of Dementia: The
2005 Women’s Health Initiative Memory Study. Wake Forest University/Wyeth-Ayerst. A study evaluating the effects of estrogen on memory and cognitive function in older women (Site PI).
- 2002 – Fat Reduction, HRT Use and Benign Breast Disease. Albert Einstein College of
2005 Medicine/NIH. A WHI Ancillary study. Examines the effect of dietary fat reduction and hormone replacement therapy on the development and course of benign breast disease and the subsequent

development of breast cancer (Site PI).

- 2001 – Protocol Capss-153: A Multicenter, Randomized, Open-Label, Parallel Group Study To Evaluate
- 2002 The Endometrial Safety Following Treatment With Ortho-Prefest[®] Compared To Prempro[™] In Postmenopausal Women. Ortho-McNeil Pharmaceutical (Site PI). A study comparing two hormone replacement therapies already approved by the FDA for their effect on endometrial safety.
- 1999 - Thrombotic, Inflammatory and Genetic Markers for CHD in Postmenopausal Women
- 2003 Harvard University/NIH-NHLBI. A comprehensive evaluation of a series of thrombotic, inflammatory, and genetic markers for myocardial infarction among participants in the Women's Health Initiative Observational Study (WHI-OS), an ongoing prospective cohort study of over 90,000 ethnically representative post-menopausal American women (Site PI).
- 1998 A Comparison of Continuous HRT Regimens including Estratab[®] combined with Prometrium[®] or – Provera[®]. Solvay Pharmaceuticals, Inc. A randomized double-blind crossover comparison of two
- 2000 continuous HRT regimens on the quality of life in post-menopausal women (Site PI).
- 1998 HRT and Quality of Life. Solvay Pharmaceuticals, Inc. Analysis of data contrasting treatment effects of the HRT regimens on Quality of Life over time in the Postmenopausal Estrogen-Progestin Interventions Trial (Site PI).
- 1997 The Effect of Tibolone on Carotid Artery Thickness and Bone Mineral Density (OPAL – 02 Study). Organon, Inc. A randomized controlled double blinded clinical trial evaluating the effects of a manufactured estrogen, tibolone, compared to CEE+MPA on risk factors for cardiovascular disease and osteoporosis (Site PI).
- 1995 Women's Healthy Eating and Lifestyle Study. Walton Family Foundation
- 96 A clinical trial of secondary prevention of breast cancer by diet (Site PI).
- 1995 Partners in Women's Health Study. Stein Institute for Research on Aging. An observational study
- 96 of prostate and cardiovascular disease in male partners of women enrolled in the WHI (PI).
- 1991 Predictors of Cardiovascular Disease in the Elderly. NIH:NHLBI. An observational study of risk
- 95 factors associated with disease in persons aged 75 and older (PI).

As Co-Principal Investigator (beginning with most recent)

- 2006 Molecular Biomarkers for Abdominal Aortic Aneurysms. Geisinger Clinic Research
– Endowment. A case-control study conducted in patients followed for abdominal aortic aneurysm
2007 (AAA) and controls with other peripheral arterial disease, built upon suggestive findings in lower
mammals, to identify potential genetic markers associated with AAA.
- 1995 The Epidemiology of Venous Disease. NIH:NHLBI. An observational study of the prevalence and
– 99 predictors of venous vascular disease in adult male and female volunteers. Co-Principal
Investigator. Principal Investigator: Michael H. Criqui, MD, MPH
- 1994 PEPI: Postmenopausal Estrogen-Progestin Interventions Trial II. NIH:NHLBI. Support for
– 98 scientific follow-up activities for the completed multi-center PEPI trial that studied the associations
between hormone replacement therapy and cardiovascular disease risk factors. Co-Principal
Investigator and member of the Publications and Ancillary Studies Committee. Principal
Investigator: Dr. Elizabeth Barrett-Connor.
- 1994 PEPI: Postmenopausal Estrogen-Progestin Interventions Trial Safety Follow-
– 97 up. NIH:NHLBI. Support for clinical safety follow-up activities for the completed multi-center
PEPI trial that studied the associations between hormone replacement therapy and cardiovascular
disease risk factors. Co-Principal investigator, Project Director, and Clinic Physician for the UCSD
Clinical Center. Principal Investigator: Dr. Elizabeth Barrett-Connor.
- 1987 PEPI: Postmenopausal Estrogen-Progestin Interventions Trial. NIH:NHLBI. A multi-center PEPI
– trial that studied the associations between hormone replacement therapy and cardiovascular disease
1994 risk factors. Co-Principal investigator, Project Director, and Clinic Physician for the UCSD
Clinical Center. Principal Investigator: Dr. Elizabeth Barrett-Connor.
- 1991 The Natural History of Peripheral Arterial Disease (PAD). NIH: NHLBI. A study using repeat
– 95 non-invasive tests for PAD on a population of veterans identified as having this condition. Co-
Principal Investigator. Principal Investigator: Michael H. Criqui, MD, MPH
- 1986 The Epidemiology of Peripheral Arterial Disease (PAD). NIH: NHLBI. An observational study of
– 91 the prevalence of PAD and the prospective outcomes associated with categories of PAD in older
men and women. Co-Principal Investigator. Principal Investigator: Michael H. Criqui, MD, MPH

As Co-Investigator

- 2008- The Built Environment and Cancer in Women's Health Initiative participants in San Diego.
- 2010 NIH: National Cancer Institute. A study investigating associations between the neighborhood environment, cancer risk factors and outcomes. Co-Investigator. Principal Investigator: Matthew Allison, MD, MPH
- 2008- Bridging Knowledge Gaps in the Comparative Effectiveness of ACE Inhibitors and ARBs. Agency for Healthcare Research and Quality. A retrospective study using electronic medical records to assess outcomes associated with use of these two newer antihypertensive agents. Co-Investigator. Principal Investigator: Nirav Shah, MD, MPH
- 2001 – Cardiac Amyloidosis in Aging African-Americans. NIH: NHLBI. A study examining a genetically determined form of late-onset amyloidosis due to a substitution of ILE for VAL on position 122 in the serum protein transthyretin (TTR). Co-Investigator. Principal Investigator: Joel Buxbaum, MD
- 1986 – Rancho Bernardo Chronic Disease Study: Diabetes and Macrovascular Disease in an Adult Community. NIH:NIDDK. A community-based study of the association between macrovascular disease, diabetes, other major chronic diseases and associated risk factors in a cohort of men and women followed prospectively in Rancho Bernardo, California, since 1972. Co-Investigator with focus on the very old, blood pressure and electrocardiography. Principal Investigator: Elizabeth Barrett-Connor, MD
- 1995 Ethnic Differences in Bone Mineral Density in Postmenopausal Women
- 96 Stein Institute for Research on Aging. An observational study comparing bone mineral density in Latina, Anglo and African-American women. Co-Investigator with responsibility for coordinating data collection activities between the WHI project and the other UCSD units involved, role in the design and conduct of analyses. Principal Investigator: Diane Schneider, MD
- 1986 Preventive Cardiology Academic Award. NIH:NHLBI.
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- 2005 *Preventive Cardiology Center*. An educational and behavior change program involving physicians-in-training and patients at increased cardiovascular risk. Physician and Co-Investigator. Data base design, analyses and manuscript preparation.
- Medical Student Risk Assessment*. Associate Director, and Acting Director, 1991-92. Data base design, analyses and manuscript preparation.
- Principal Investigator: Michael H. Criqui, MD, MPH
- 1995 Validation and Exploration of Sleep and Mood Predictors. NIH:NHLBI. An observational study

– 99 conducted in the San Diego Women’s Health Initiative cohort of the associations between sleep, chronic diseases and survival, and a validation study of the WHI sleep questionnaire. Co-Investigator with responsibility for coordinating enrollment, data collection and analysis activities between the main WHI project and Dr. Kripke’s lab. Principal Investigator: Daniel Kripke, PhD

RESPONSIBILITIES AT THE UNIVERSITY OF NEVADA SCHOOL OF MEDICINE:***Founding Associate Dean for the Office of Medical Research in Las Vegas:***

Planning and design of physical plant to house research support staff and clinical exam space

Definition and hiring of staff positions to support clinical and translational research for the main clinical campus of the medical school

Development of research capacity at the primary clinical campus

Mentor/Advisor for junior and mid-career faculty developing clinical research (3-5 per year)

Member, Conflict of Interest Committee

Faculty for Annual Research Boot Camp

RESPONSIBILITIES AT THE GEISINGER HEALTH SYSTEM:

Electronic Health Record:

Development of a core dataset representing the main characteristics and outcomes for the population of approximately 1.2 million patients with longitudinal records served by the system

Mentor/Advisor for (typically 3 to 5 per year):

Residents in Internal Medicine

Fellows in Cardiology and Women's Health

Junior faculty

Clinical faculty interested in developing/conducting research

Committees and Administration:

Administrative Committee for Research

Senior Research Leadership

RESPONSIBILITIES AT THE UCSD SCHOOL OF MEDICINE:***Lecturer in:***

Core Epidemiology Course

Advanced Epidemiology elective

Clinical Trials elective

Preventive Medicine Elective

Preventive Cardiology Elective

Graduate Seminar in Epidemiology

Mentor/Advisor for (typically 3 to 5 per year):

Thesis and independent study (medical students)

Ph.D. students in the Epidemiology program

MD/PhD students in the Medical Scientist Training Program

Residents in Preventive Medicine

Fellows in Preventive Medicine and Women's Health

Host/advisor for visiting scholars in epidemiology

Clinical:

Family physician for patients followed through the UCSD Medical Group

Committees and Administration:

Department of Family and Preventive Medicine Finance Committee 1999-2004.

Department of Family and Preventive Medicine Executive Committee 1989-93.

Department of Family and Preventive Medicine Committee on Academic Promotions, Chairman 1990-91, member 1989-91.

School of Medicine

Research Working Group, Task Force for LCME self-study, 2002

Academic Geriatric Resource Center of UCSD, Internal Advisory Board, 1991-2005

Search Committee for Family Medicine Division Chief, 2000

Stein Institute for Research on Aging, Internal Advisory Board, 1991-2005

Computer Advisory Committee, 1990-1996

Dean's Ad Hoc Committee for a research institute at the University of Costa Rica, 1990-91.

Core Curriculum Committee, 1992-1994

Task Force on a Curriculum in Medical Informatics, 1994-95

Campus-Wide

Committee on Computing, 1993-97

NATIONAL AND REGIONAL COMMITTEES:

Steering Committee, National IDeA Symposium on Biomedical Research (NISBRE), 2016

Chair, NIGMS IDeA Clinical Translational Research Principal Investigators Committee, 2014 - 2016

Research Committee, American Heart Association, Pennsylvania – Delaware Affiliate, 2006 - 2008

Practice-Based Research Network Committee, Pennsylvania Academy of Family Physicians, 2006 - 2008

Chair, Observational Study Committee, The Women's Health Initiative, 1996-2005

Associate Editor, Sexuality and Reproductive Medicine, 2004 – 2008

Associate Editor, Clinical Journal of Women's Health, 2001 – 2004

Behavioral Science, Epidemiology and Prevention Committee, Consortia Peer Review, American Heart Association, 2000 - 2002

Chair, National Steering Committee, The Women's Health Initiative, 1995-96

National Steering Committee, The Women's Health Initiative, 1994-2005

Chair, National Principal Investigators Committee, The Women's Health Initiative, 1995-96;
Vice-Chair, 1994-95

Chair, Western Region Principal Investigators, The Women's Health Initiative, 1994-96

Chair, American Heart Association Council on Epidemiology and Prevention, Membership and Credentials Committee, 1991-95

Chair, Soroptimist International of La Jolla/Doris A. Howell Foundation for Women's Health Research Student Research Award in Women's Health Scientific Advisory Board, 1994-1998

Task Force on Women's Issues, American Heart Association, Council on Epidemiology and Prevention, 1994-97

National Management Committee, The Women's Health Initiative, 1994-95

Executive Committee, American Heart Association Council on Epidemiology and Prevention, 1991-1995

Postmenopausal Estrogen/Progestins Interventions (PEPI) trial, Publications & Ancillary Studies Committee, 1988 - 1999

Consulting Epidemiologist, American Lung Association San Diego, Committee on Tuberculosis, 1989-94

Member, Membership and Credentials Committee, AHA Council on Epidemiology and Prevention, 1989-1991

Member, Expert Panel, American Academy of Family Physicians, Ad Hoc Panel on Computers; 1983, 1991

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

American Academy of Family Physicians, 1980 - present

Wyoming Academy of Family Physicians, 2007 – present

California and San Diego Academies of Family Physicians, 1982 - 2005

American Society for Preventive Cardiology, 2002 - present

American Heart Association, Council on Epidemiology, 1987- present

Society for Epidemiologic Research, 1987 - present

American College of Preventive Medicine, 1993 - present

Attending Medical Staff, Geisinger Health System, Danville, PA, 2005 - 2007

Attending Medical Staff, University Hospitals, University of California, San Diego, 1988 - 2005

Attending Medical Staff, Pomerado Hospital, Poway, California, 1981 - 1994

HONORS, AWARDS & FELLOWSHIPS:

Fellow, American Academy of Family Physicians - 1988

Fellow, American Heart Association Seminar on Cardiovascular Epidemiology - 1988

Member, Sam and Rose Stein Institute for Research on Aging, University of California, 1991-2005

Fellow, Council on Epidemiology of the American Heart Association, 1991

Fellow, American College of Preventive Medicine, 1993

Member, UCSD Cancer Center, 1994 - 2005

Annual Robert Langer scholarship for a UCSD undergraduate interested in women's health given by Howell Foundation starting in 2003

INTERNATIONAL INVITED LECTURESHIPS:

Scandinavian Primary Care Symposium, Gothenberg, Sweden, September 2006, “Contrasts in Outpatient Records-Based Research Between US and Swedish Integrated Healthcare Systems”.

Swedish Academy of Pharmaceutical Sciences, Stockholm, Sweden, April 2007, “Contemporary Pharmacoepidemiology In a Large Integrated US Health System”.

Skaraborg Regional Health System, Skovde, Sweden, April 2007, “Stark Contrasts in the Control of Blood Sugar & Blood Pressure Among Diabetics In Swedish and US Cohorts”.

Israel Menopause Society, Tel Aviv, Israel, August 2009, “The WHI Findings for HRT Started Near Menopause”.

State of Israel Ministry of Health, National Council For Women's Health, Tel Aviv, Israel, August 2009, “Benefits and Risks for Hormone Replacement Therapy Initiated Near Menopause”.

The Amsterdam Menopause and Women’s Health Symposium. Amsterdam, the Netherlands, September 2010. “The Women’s Health Initiative in Light of Recent Evidence: Time is of the Essence”.

Controversies in Obstetrics, Gynecology and Infertility, Sanya, Hainan, China, December 2011, 3 lectures: “Is There Evidence for a Hormone Therapy Critical Window to Prevent Disease?” “Should we Treat Women with Low Bone Mineral Density Who are Younger than 70 Years, and How?” “It is Impossible to Predict Women in Whom Hormone Therapy Will Increase Breast Cancer Risk and Evidence Is Inadequate to Attribute Risk to Specific Regimens”

American Heart Association Conference on Epidemiology and Prevention, San Diego, CA, March 2012. “Short-acting Hypnotic Drugs Increase Mortality and Obese Patients are Particularly Vulnerable.”

COGI – Building Consensus in Gynecology, Infertility and Perinatology, Barcelona, Spain, May 2012. “Strengths and weaknesses of WHI - methodological perspectives.”

International Menopause Society, Paris, France, November 2012. “HRT: State of the art 10 years after WHI”.

17th Controversies in Obstetrics, Gynecology and Infertility, Lisbon, Portugal. November 2012, 2 lectures: “HRT: Where Do We Come From? Where Are We Going?” “Debate: Is there evidence for a critical HRT window to prevent disease? Proposition: HRT should be started early to have an effect”

18th Controversies in Obstetrics, Gynecology and Infertility, Vienna, Austria. October 2013: “The WHI: Where the Right Went Wrong”

19th Controversies in Obstetrics, Gynecology and Infertility, Macao, China. February 2014, 3 lectures: “Is There A Critical Window for Initiating Hormone Therapy to Prevent Disease?” “The WHI: Where the Right Went Wrong” “Calcium and Vitamin D: Prevention or Harm?”

20th Controversies in Obstetrics, Gynecology and Infertility, Paris, France. December 2014: “Hormone Therapy and Osteoporosis”

21st Controversies in Obstetrics, Gynecology and Infertility, Guilin, China. May 2015, 3 lectures: “The WHI and Breast Cancer” “The WHI: Where the Right Went Wrong” “The WHI and Osteoporosis”

23rd Controversies in Obstetrics, Gynecology and Infertility, Melbourne, Australia. April 2016, 2 lectures: “The WHI: Have We Reached the Wrong Conclusions?” “The WHI and Osteoporosis”

15th Congress of the International Menopause Society, Prague, Czech Republic, September 2016, Plenary Lecture: “The Evidence Base for Hormone Replacement Therapy: What Can We Believe?”

FORENSIC SCIENTIFIC EXPERT ENGAGEMENTS:

Product liability: Hormone Replacement Therapy (including Multi-District Litigation)

Product liability: Hormonal Contraception

Product liability: Bisphosphonates

Product liability: Retinoids

Product liability: Crumb Rubber

Pharmaceutical Intellectual Property

Insurance for product liability

Medical malpractice: cardiovascular event associated with medication use

Medical malpractice: failure to diagnose lung cancer, estimated survival

Medical malpractice: complications of peripheral arterial disease, estimated survival

Medical malpractice: Statistical methods related to breast cancer progression

Wrongful death: Life Expectancy (multiple cases in different jurisdictions)

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS:

Langer, RD TALMRS: Time-affinity linked medical record system. Proceedings of The Eleventh Annual Symposium on Computer Applications in Medical Care. The Computer Society Press, Los Angeles, California, 1987, pp 271-274. Pavlinac D, Langer R, Lenhard L, Deftos L, Magnesium in affective disorders. *Biological Psychiatry*, 1979;14(4),657-661.

Langer, RD: A flexible triage system for use in the home, workplace, and health care institutions. Proceedings, American Association for Medical Sciences and Informatics Congress 1988, American Association for Medical Sciences and Informatics, Washington, DC, 1988, 26-30.

Langer RD, Ganiats TG, Barrett-Connor E. Paradoxical survival of elderly men with high blood pressure. *BMJ*. 1989 May 20;298(6684):1356-7.

Criqui MH, Langer RD, Reed DM. Dietary alcohol, calcium, and potassium. Independent and combined effects on blood pressure. *Circulation*. 1989 Sep;80(3):609-14.

Sallis JF, Criqui MH, Kashani IA, Rupp JW, Calfas KJ, Langer RD, Nader PR, Ross J Jr. A program for health behavior change in a preventive cardiology center. *Am J Prev Med*. 1990;6(2 Suppl):43-50.

Langer RD & Barrett-Connor E: Menopausal estrogen and cardiovascular disease: Is there a relationship? *Obstetrics/Gynecology Report*, 1990;2:255-65.

Langer RD & Barrett-Connor E: Coronary heart disease prevention in women. *Practical Cardiology*, 1991;17(3):45-62.

Langer RD, Ganiats TG, Barrett-Connor E. Factors associated with paradoxical survival at higher blood pressures in the very old. *Am J Epidemiol*. 1991 Jul 1;134(1):29-38. Erratum in: *Am J Epidemiol* 1993 Nov 1;138(9):774.

Kashani IA, Langer RD, Criqui MH, Nader PR, Rupp J, Sallis JF, Houghton R. Effects of parental behavior modification on children's cardiovascular risks. *Ann N Y Acad Sci*. 1991;623:447-9.

Langer RD & Barrett-Connor E: Cardiovascular disease in women. *Contemp Int Med*, 1991;3(6):50-64.

Langer RD, Wark R, Schneiderman LJ, Kaplan RM, Anderson JP, Chen M. A research-oriented medical cost accounting system. *Int J Biomed Comput.* 1991 Jul-Aug;28(3):161-7.

Barrett-Connor E & Langer RD: Cardiovascular events, estrogens, and the menopause. In Morley JE & Korenman SG: *Problems in Geriatric Endocrinology*, Blackwell Scientific Publications, Boston, 1992, pp 336-49.

Kashani IA, Kaplan RM, Criqui MH, Nader PR, Rupp J, Sallis JF, Dimsdale J, Langer RD, Bracker M, Ries AL: Cardiovascular risk factor assessment of medical students as an educational tool. *Am J Prev Med*, 1992;8(6):384-388.

Langer RD, Criqui MH, Reed DM: Lipoproteins and Blood Pressure as Biological Pathways for Effect of Moderate Alcohol Consumption on Coronary Heart Disease. *Circulation*, 1992; 85:910-915.

Criqui MH, Langer RD, Fronck A, Feigelson HS, Klauber MR: Large Vessel and Isolated SVD (chapter), In: *Epidemiology of Peripheral Vessel Disease*. Fowkes FGR (Ed), Springer-Verlag, Ireland, 1991, 85-96.

Criqui MH, Langer RD, Fronck A, Feigelson HS. Coronary disease and stroke in patients with large vessel peripheral arterial disease. *Drugs* 1991;42(suppl5):16-21.

Criqui MH, Langer RD, Fronck A, Feigelson HS, Klauber MR, Ganiats TG, Browner D: Mortality over a period of 10 years in patients with peripheral arterial disease. *N Engl J Med*, 1992; 326:381-6.

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