

# CURRICULUM VITAE

**Chian Kent Kwoh, MD**

## BIOGRAPHICAL

### EDUCATION and TRAINING

#### Graduate

M.D. 1979	University of Illinois	Medicine
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#### Postgraduate

Resident, PGY 1-3	University of Illinois Medical Center, Chicago, IL	Ruy Lourenzo, MD
Rheumatology Fellow	Dartmouth-Hitchcock Medical Center, Hanover, NH	G. James Morgan, MD
Robert Wood Johnson Clinical Scholars Program, VA Scholar	Yale University School of Medicine New Haven, CT	Alvan Feinstein, MD, Ralph Horowitz, MD

### CERTIFICATION and LICENSURE

1980	National Board of Medical Examiners
1979-1987	Medical Licensure State of Illinois
1982-1986	Medical Licensure State of Vermont
1983	American Board of Internal Medicine
1986-present	Medical Licensure Commonwealth of Pennsylvania
1986	American Board of Internal Medicine (Rheumatology Subspecialty)
1994-2000	Medical Licensure State of Ohio

### CHRONOLOGY OF EMPLOYMENT

<b>Years</b>	<b>Appointment</b>	<b>Institution</b>	<b>Location</b>
7/1/1980- 6/30/1982	Assistant in Medicine	University of Illinois Medical Center	Chicago, IL
7/1/1982- 6/30/1983	Instructor in Clinical Medicine	Dartmouth-Hitchcock Medical Center	Hanover, NH
7/1/1983- 6/30/1984	Research Associate	Dartmouth Medical School	Hanover, NH
7/1/1986- 6/30/1994	Co-Director, Rheumatology Education and Research	Saint Margaret Memorial Hospital	Pittsburgh PA
7/1/1986- 6/30/1992	Assistant Professor of Medicine, Rheumatology and Clinical Immunology	University of Pittsburgh School of Medicine	Pittsburgh, PA

<b>Years</b>	<b>Appointment</b>	<b>Institution</b>	<b>Location</b>
7/1/1989-6/30/1992	Assistant Professor of Epidemiology	University of Pittsburgh Graduate School of Public Health	Pittsburgh, PA
7/1/1991-6/30/1994	Graduate Faculty	University of Pittsburgh	Pittsburgh, PA
7/1/1992-6/30/1994	Associate Professor of Medicine, Rheumatology and Clinical Immunology	University of Pittsburgh School of Medicine	Pittsburgh, PA
7/1/1992-6/30/1994	Associate Professor of Epidemiology	University of Pittsburgh Graduate School of Public Health	Pittsburgh, PA
7/1/1994-6/30/2000	Adjunct Associate Professor of Medicine	University of Pittsburgh School of Medicine	Pittsburgh, PA
7/1/1994-6/30/2000	Adjunct Associate Professor of Epidemiology	University of Pittsburgh Graduate School of Public Health	Pittsburgh, PA
7/1/1994-7/31/2000	Associate Professor of Medicine, Division of Rheumatic Diseases	Case Western Reserve University	Cleveland, OH
7/1/1994-7/31/2000	Associate Professor of Epidemiology and Biostatistics, Department of Epidemiology and Biostatistics	Case Western Reserve University School of Medicine	Cleveland, OH
7/1/1994-7/31/2000	Staff Physician	Louis Stokes Cleveland VA Medical Center (VISN 10)	Cleveland, OH
7/1/1997-7/31/2000	Director, Department of Medicine Institute for Health Care Research	Case Western Reserve University School of Medicine	Cleveland, OH
7/1/1997-7/31/2000	Director, Cleveland VA Program for Healthcare Research	Louis Stokes Cleveland VA Medical Center (VISN 10)	Cleveland, OH
7/1/1999-7/31/2000	Associate Clinical and Research Director	Cleveland and Geriatric Research Education Clinical Center (GRECC)	Cleveland, OH
9/1/2000-6/30/2013	Adjunct Associate Professor of Medicine	Case Western Reserve University School of Medicine	Cleveland, OH
9/1/2000-6/30/2013	Professor of Medicine, Division of Rheumatology and Clinical Immunology (tenure conferred, 2004)	University of Pittsburgh School of Medicine	Pittsburgh, PA
9/1/2000-6/30/2013	Director of Clinical Research	University of Pittsburgh Arthritis Institute	Pittsburgh, PA
9/1/2000-6/30/2013	Joint Appointment in Department of Epidemiology	University of Pittsburgh Graduate School of Public Health	Pittsburgh, PA

<b>Years</b>	<b>Appointment</b>	<b>Institution</b>	<b>Location</b>
9/1/2000-6/30/2013	Staff Physician	VA Pittsburgh Healthcare System (VAPHS) - VISN 4	Pittsburgh, PA
9/1/2000-6/30/2013	Rheumatology Section Chief	VAPHS	Pittsburgh, PA
9/1/2000-6/30/2013	Joint Appointment in Clinical and Translational Science Institute	University of Pittsburgh	Pittsburgh, PA
7/22/2013-Present	Professor of Medicine,	University of Arizona	Tucson, AZ
8/23/2013-Present	Joint Appointment in medical Imaging	University of Arizona	Tucson, AZ

### **HONORS**

- 1979 Chicago Rheumatism Society, Annual Competition for Medical Students, House staff and Trainees, Second Place
- 1984 Arthritis Foundation Fellowship – Declined
- 1984 American Rheumatism Association, Northeast Region Senior Rheumatology Scholar Award
- 1984 Society for Medical Decision Making, Lee B. Lusted Prizes for Student Research, Finalist Post-doctoral Student Prize Competition
- 1984 Robert Wood Johnson Clinical Scholar
- 1998 Medical Research Award, Twins Day Festival Committee
- 2000 “Shining Light” Northeast Ohio Arthritis Foundation Chapter

### **SERVICE / OUTREACH**

- 1982 American Federation for Clinical Research
- 1984 American College of Physicians
- 1984-present American College of Rheumatology (Founding Fellow)
- 1984-2008 Society for Medical Decision Making
- 1984 Society of General Internal Medicine
- 1985 American Public Health Association
- 1986 American Geriatrics Society
- 1987-present Arthritis Foundation
- 1988 Society for Epidemiologic Research
- 1990 Arthritis Health Professions Association
- 1993 Association for Health Services Research
- 1993 International Genetic Epidemiology Society
- 1999 Gerontologic Society of America
- 1999 American Society for Bone Mineral Research
- 2007-present OARSI
- 2007-2009 American Medical Association

### **INSTITUTIONAL SERVICE**

University of Pittsburgh/UPMC Hospitals

<b>Years</b>	<b>Role</b>	<b>Organization</b>	<b>Institution</b>
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**INSTITUTIONAL SERVICE**University of Pittsburgh/UPMC Hospitals

<b>Years</b>	<b>Role</b>	<b>Organization</b>	<b>Institution</b>
1986-1994	Member	Rehabilitation Operations Committee	St. Margaret Memorial Hospital
1986-1994	Member	Institutional Review Committee	St. Margaret Memorial Hospital
1986-1994	Chairperson	Rheumatoid Arthritis Task Force, DPARC	St. Margaret Memorial Hospital
1986-1994	Member	Education Committee, DPARC	St. Margaret Memorial Hospital
1986-1994	Member	Visiting Professor Series Program Committee	St. Margaret Memorial Hospital
1986-1994	Volunteer Rheumatologist		Alma Illery Center
1992	Grant Reviewer	Central Research Development Fund	University of Pittsburgh
1992	Grant Reviewer	Competitive Medical Research Fund	University of Pittsburgh
1992	Member	Task Force on Women's Health Issues	University of Pittsburgh
2001-present	Member	Education Committee	UPMC Arthritis Network
2001-2010	Member	Executive Committee	UPMC Arthritis Network
2001-2010	Member	Operations Committee	UPMC Arthritis Network
2001-2010	Member	Executive Committee	University of Pittsburgh Arthritis Institute
2001-2010	Member	Pain Management Council	UPMC
2001-2003	Member	Institutional Review Board	UPMC
2004	Member	Low Back Pain Task Force	UPMC Health Plan
2005-2007	Member	GCRC Advisory Committee	University of Pittsburgh

**INSTITUTIONAL SERVICE**University of Pittsburgh/UPMC Hospitals

<b>Years</b>	<b>Role</b>	<b>Organization</b>	<b>Institution</b>
2007-2008	Member	Faculty Search Committee	University of Pittsburgh Center for Aging and Population Health
2009-present	Member	Admissions Committee	University of Pittsburgh School of Medicine

**INSTITUTIONAL SERVICE**Case Western Reserve University/ University Hospitals of Cleveland

<b>Year(s)</b>	<b>Role</b>	<b>Organization</b>	<b>Institution</b>
1994-2000	Member	Joint Extended Care Path Committee	University Hospitals of Cleveland
1996-1997	Member	Department of Medicine Research Coordinating Committee	Case Western Reserve University
1997	Member	Department of Medicine Research Institute Directors Committee	Case Western Reserve University
1997-1998	Member	Search Committees for Chairperson of the Department of Medicine	Case Western Reserve University
1997-2000	Member	Department of Epidemiology and Biostatistics Committee on Appointments, Promotions and Tenure	Case Western Reserve University
1998	Member	Search Committee for Chairperson of the Department of Physical Medicine and Rehabilitation	Case Western Reserve University
1998-2000	Member	Quality of Disease Management Program Steering Committee	University Hospitals of Cleveland
1998-2000	Member	Quality of Disease Management Program Operating Committee	University Hospitals of Cleveland
1998-2000	Member	Department of Medicine Intern Selection Committee	University Hospitals of Cleveland
1999	Member	Search Committee for Chief of the Division of Geriatrics	University Hospitals of Cleveland
1999	Member	Search Committee for Chief of the Division of General Internal Medicine	University Hospitals of Cleveland
1999-2000	Member	Division of Rheumatic Diseases Rheumatology Curriculum Revision Committee	University Hospitals of Cleveland

**INSTITUTIONAL SERVICE**Veterans Affairs Healthcare System

<b>Year(s)</b>	<b>Role</b>	<b>Organization</b>	<b>Institution</b>
1995-1997	Member	Research and Development Committee	Louis Stokes Cleveland Veterans Affairs Medical Center
1997-2000	Member	Network Research Council	Veterans Integrated Service Network - Ohio (VISN 10)
1997-2000	Co-Chair	VISN 10 Health Services Research & Development Sub-Council	Veterans Integrated Service Network - Ohio (VISN 10)
1998	Member	Search Committee for Chief of the Medical Service	Louis Stokes Cleveland Veterans Affairs Medical Center
1999	Member	Search Committee for Associate Chief of Staff for Research	Louis Stokes Cleveland Veterans Affairs Medical Center
2001-2007	Chair	Intramural Research Subcommittee for Center for Health Equity Research and Promotion (CHERP)	VAPHS
2006-2007	Member	CHERP Pilot Project Review Committee	VAPHS
2006-2007	Member	VA Rheumatology Consortium	VAPHS
2001-2010	Member	CHERP Executive Committee	VAPHS
2002-2006	Member	Health Services Research & Development (HSR&D) REAP Advisory Committee	Cleveland Veterans Affairs Medical Center
2002-2006	Member	HSR&D Research Enhancement Award Program focused on Quality of Care Advisory Committee	VAPHS
2007-2009	Member	Research and Development Committee	VAPHS
2007-present	Member	Rheumatology Field Advisory Committee	Department of Veterans Affairs

**NATIONAL SERVICE**Peer Review Assignments

<b>Year(s)</b>	<b>Role</b>	<b>Assignment</b>	<b>Sponsor</b>
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**NATIONAL SERVICE**  
Peer Review Assignments

<b>Year(s)</b>	<b>Role</b>	<b>Assignment</b>	<b>Sponsor</b>
1987	Reviewer	Rehabilitative Rheumatology Subsection Abstract Review Committee for the Annual Meeting	American Rheumatism Association (ARA)
1988-1997	External Grant Referee		The Arthritis Society, Toronto, Canada
1988-1993, 1995	Member	July Special Emphasis Panel: Multipurpose Arthritis and Musculoskeletal Disease Centers	National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
1990-1992	Reviewer	Health Services Subsection Abstract Review Committee for the Annual Meeting	Arthritis Health Professions Association (AHPA)
1991	Reviewer	Epidemiology, Education and Health Services Research Abstract Selection Committee for the Annual Meeting	American College of Rheumatology (ACR)
1992	Member	June Special Emphasis Panel: Multipurpose Arthritis and Musculoskeletal Disease Centers	NIAMS
1992	Member	Training Advisory Committee, Review of MEDTEP Research Centers, Ad Hoc Study Section	Agency for Health Care Policy & Research (AHCPR)
1992	Chair	Abstract Selection Sub-Committee on Epidemiology Health Services Research Education and Rehabilitation Subsection	ACR
1992-1993	Member	Grant Review Sub-Committee	Western Pennsylvania Chapter of the Arthritis Foundation (AF-WPC)
1993	Member	Training Advisory Committee, Review of Institutional National Research Service Awards, Ad Hoc Study Section	AHCPR
1993	Special Reviewer	Health Services Research and Dissemination Study Section	AHCPR
1993	Member	Special Review Committee for Complex Clinical Projects, Review of Patient Orientation Research Teams (PORT) grants, Ad Hoc Study Section	AHCPR
1993	Member	MEDTEP Research Center, Minority Population Review Committee	AHCPR

**NATIONAL SERVICE**  
Peer Review Assignments

<b>Year(s)</b>	<b>Role</b>	<b>Assignment</b>	<b>Sponsor</b>
1994	Member	National Research Service Awards Special Emphasis Panel (Ad Hoc Study Section)	AHCPR
1994	Ad Hoc Grant Reviewer	Committee on Health Care Research	ACR
1994	Member	Special Emphasis Panel	NIAMS
1994-1995	External Reviewer	MEDTEP Centers, Non-competing Continuation Renewal	AHCPR
1994-1995	Reviewer	Epidemiology, Education and Health Services Research Abstract Selection Committee for the Annual Meeting	ACR
1994-1998	Member	Health Services Research and Dissemination Study Section	AHCPR
1995	Site Visitor	MEDTEP Centers, Non-competing Continuation Renewal	AHCPR
1995-1997	Reviewer	Epidemiology Subsection Abstract Review Committee for the Annual Meeting	AHPA
1996	Reviewer	Orthopedics/Rehabilitation, Soft tissue aspects of rheumatic disease/Fibromyalgia and Low Back Pain Abstract Selection Committee for the Annual Meeting	ACR
1996-1998	External Reviewer		Musculoskeletal Transplant Foundation
1997	External Reviewer		American Osteopathic Association
1997	Member	Developing a Minority Health Services Research Agenda	Association of American Medical College (AAMC)/AHCPR
1997	Ad hoc Member	General Medicine A-1 (GMA-1)	National Institutes of Health (NIH)
1998	Member	Special Emphasis Panel: <i>Career Development Awards (K08)</i>	NIAMS
1998	Member	Epidemiology and Disease Control-2 (EDC-2) Special Emphasis Panel	NIH



**NATIONAL SERVICE**  
Peer Review Assignments

<b>Year(s)</b>	<b>Role</b>	<b>Assignment</b>	<b>Sponsor</b>
1998	Member	Special Emphasis Panel, GCRC Site Visit	NIH
1998, 2000-present	Grant Reviewer	Public Health Panel	National Health Research Institute, Taiwan
1998	Ad Hoc Member	General Medicine A-1 (GMA-1) Study Section	NIH
1998	Member	Health Services Research and Development (HSR&D) Service, Ad hoc Scientific Review Board for Quality Enhancement Research Initiative (QUERI), Patient-Centered Outcomes Panel	Department of Veterans Affairs
1999	Member	HSR&D Service, LOI Review panel	Department of Veterans Affairs
1999-2002	Member	HSR&D Service, Scientific Review and Evaluation Board	Department of Veterans Affairs
1999-2003	Member	General Medicine A-1 (GMA-1) Study Section	NIH
2002-2006	Member	Career Development Award Study Section	Department of Veterans Affairs
2002-2006	Member	Abbott Scholar Award in Rheumatology Research, Study Section	
2004-present	Chair	Medical & Scientific Committee Grant Review Subcommittee	AF-WPC
2005	Ad Hoc Member	Neurology, Aging and Musculoskeletal Epidemiology (NAME) Study section	NIH
2005-2006	Ad Hoc Member	Arthritis, Musculoskeletal and Skin Diseases Career Award (AMS) Study section	NIAMS
2005-2006	Member	HSR&D Career Development Study Section	Department of Veterans Affairs
2005-2010	Member	Neurology, Aging and Musculoskeletal Epidemiology) NAME Study Section	NIH
2007	Member	Multidisciplinary Clinical Research Center Special Emphasis Panel	NIAMS
2008-present	Member	Peer Review Council for Training Awards	AF-WPC
2009	Ad hoc Reviewer	Musculoskeletal, Oral and Skin Sciences (MOSS) Integrated Review Group	NIH

**NATIONAL SERVICE**  
Peer Review Assignments

<b>Year(s)</b>	<b>Role</b>	<b>Assignment</b>	<b>Sponsor</b>
2009	External Site Reviewer	Multidisciplinary Clinical Research Center	University of Alabama at Birmingham
2010	Reviewer	Chapter review	Arthritis Foundation, WPC
2011	Member	Innovative Research Grant Review Committee, Osteoarthritis grants	Arthritis Foundation
2012	Member	Disease Targeted Research Initiative (DTRI) Grant Review Committee	American College of Rheumatology Research and Education Foundation

**NATIONAL SERVICE**  
Membership of Scientific Societies and Professional Organizations

<b>Years</b>	<b>Role</b>	<b>Society/Organization</b>	<b>Sponsor</b>
1987-1994, 2001-present	Member	Executive Committee	AF-WPC
1987-1994	Member	Patient Services Committee	AF-WPC
1987-1994	Member	Professional Education Committee	AF-WPC
1991	Co-Chair	Henry Kunkel Young Investigator Mini-symposium	ACR
1991	Member	Arthritis Science Panel and Health Services, Behavioral and Education Research Panel for the National Research Plan Task Force Meeting	NIAMS
1992	Member	Clinical Trials Steering Committee	ACR
1992	Member	Clinical Panel for Total Hip Arthroplasty Component	Elective Surgery Algorithm Project (ESAP)
1992-1993	Member	Task Force for United Way Site Visit	AF-WPC
1992-1994	Vice-Chairman	Patient Services	AF-WPC
1993	Member	Meeting sponsored by the Health Care Financing Administration and the American Medical Association on the Elective Surgery Algorithm Project	ESAP
1993	Participant	Clinical Policies Course	American Academy of Family Physicians

**NATIONAL SERVICE**Membership of Scientific Societies and Professional Organizations

<b>Years</b>	<b>Role</b>	<b>Society/Organization</b>	<b>Sponsor</b>
1993	Faculty Member and Workshop Leader	Health Services Research: The Minority Researcher	AHCPR
1993	Faculty Member	Health Services Research Institute, Mock Study Section	AAMC
1993-1998	Member	Market Research Committee	ACR
1994-1998	Member	Executive Committee Rehabilitative Rheumatology Section	ACR
1996-2000	Member	Patient Services Committee	Arthritis Foundation Northeastern Ohio Chapter (AF-NOC)
1997	Member	Ad Hoc Sub-Committee on HEDIS	ACR
1997-2007	Member	National Arthritis Data Working Group	NIAMS
1997-2000	Member	Medical and Scientific Committee	AF-NOC
1998-2000	Member	Quality of Disease Management Program Steering Committee	
1998-2001	Member	Research Committee	ACR
1999-2001	Member	Ad hoc subcommittee on Arthritis Care and Research	ACR
1994-1995 1999-2001	Co-Chair	Ad hoc subcommittee on Guideline Development Subcommittee for Guidelines on the Management of Rheumatoid Arthritis RA; Guidelines published in 1996 and 2002	ACR
2000	Member	Planning Committee for Conference on Health Disparities in Arthritis, Musculoskeletal and Skin Diseases	NIAMS
2000	Member	Planning Committee for Rehabilitation Conference	ACR
2000-2002	Member	Educational Products Committee	ACR
2002-2003	Chair	Educational Products Committee	ACR

**NATIONAL SERVICE**Membership of Scientific Societies and Professional Organizations

<b>Years</b>	<b>Role</b>	<b>Society/Organization</b>	<b>Sponsor</b>
2003	Member	Quality Indicators Committee	ACR
2004	Member	Annual Meeting Planning Committee	Osteoarthritis Research Society International (OARSI)
2004	Board Liaison	Quality Measures Committee	ACR
2004-2008	Member	Board of Directors	ACR
2005	Member	Treatment Guidelines Committee	OARSI
2005	Board Liaison	Committee on Publications	ACR
2005-2006	Moderator	Epidemiology and Health Services Concurrent Session	ACR
2005-2006	Member	Ankylosing Spondylitis, US Working Group	
2007-2008	Member	Food and Drug Administration Proposal Steering Committee	OARSI
2007-2008	Member	Food and Drug Administration Proposal Prevention/Risk Reduction Working Group	OARSI
2008	Board Liaison	Food and Drug Administration	ACR
2008	Board Liaison	Quality of Care	ACR
2008-2009	Board Liaison	Proposal for the development of treatment guidelines for knee and hip osteoarthritis	ACR
2008-present	Member	Public Health Committee	AF
2008-present	Member DSMB	Perioperative Intervention to Improve Post-Total Knee Replacement (TKR) Support and Function (Franklin, PI)	NIAMS
2008	Co-Chair	Rheumatoid Arthritis Working Group	National Committee for Quality Assurance (NCQA)
2008-present	Member	ISIS Fund Network	Society for Women's Health Research
2008-2009	Member	Research and Education Foundation (REF) Board of Directors	ACR
2008-2012	Member	Publications Committee	OARSI

## NATIONAL SERVICE

### Membership of Scientific Societies and Professional Organizations

Years	Role	Society/Organization	Sponsor
2009	Consultant	Adult and Pediatric Rheumatology ICD-9-CM Code Review	Pennsylvania Department of Health
2010	Member	Roundtable on Initiatives on Post Traumatic Osteoarthritis, June 28, 2010	NIH/NIAMS
2010-2012	Member	Nominations Committee	ACR
2010-2011	Member	Technical Expert Panel: ACR Recommendations for the Use of Pharmacologic and Non Pharmacologic Therapies in Osteoarthritis of the Hand, Hip and Knee	ACR

## EDITORIAL REVIEW

1998-2002	Editorial Board, <i>Arthritis Care and Research</i>
2004-2009	Associate Editor, <i>Arthritis Care and Research</i>
2008-present	Editorial Board, <i>Osteoarthritis and Cartilage</i>

### Ad Hoc Reviewer:

*Arthritis and Rheumatism*  
*Journal of Clinical Epidemiology*  
*Family Practice Recertification*  
*Journal of Rheumatology*  
*Genetic Epidemiology*  
*Arthritis Care and Research*  
*Osteoarthritis and Cartilage*  
*JAMA*

## PUBLICATIONS

### PEER REVIEWED ARTICLES

1. **Kwoh CK**, Beck JR, Pauker SG. Repeated syncope with negative diagnostic evaluation. To pace or not to pace? *Med Decis Making*. 1984;4(3):351-77.
2. **Kwoh CK**, Feinstein AR. Rates of sensitivity reactions to aspirin: problems in interpreting the data. *Clin Pharmacol Ther*. 1986 Nov;40(5):494-505.
3. A proposal for more informative abstracts of clinical articles. Ad Hoc Working Group for Critical Appraisal of the Medical Literature. **Kwoh CK**, Chair. *Ann Intern Med*. 1987 Apr;106(4):598-604.
4. Feinstein AR, **Kwoh CK**. A box-graph method for illustrating relative-size relationships in a 2 x 2 table. *Int J Epidemiol*. 1988 Mar;17(1):222-4.
5. **Kwoh CK**. Cost studies: caveats to the reader. *J Clin Epidemiol*. 1988;41(3):211-3.
6. Regan-Smith MG, O'Connor GT, **Kwoh CK**, Brown LA, Olmstead EM, Burnett JB. Lack of correlation between the Steinbrocker staging of hand radiographs and the functional health status of individuals with rheumatoid arthritis. *Arthritis Rheum*. 1989 Feb;32(2):128-33.

7. **Kwoh CK.** Epidemiology of the rheumatic diseases. *Curr Opin Rheumatol.* 1992 Apr;4(2):138-44.
8. **Kwoh CK, O'Connor GT, Regan-Smith MG, Olmstead EM, Brown LA, Burnett JB, Hochman RF, King K, Morgan GJ.** Concordance between clinician and patient assessment of physical and mental health status. *J Rheumatol.* 1992 Jul;19(7):1031-7.
9. **McCarty DJ, Kwoh CK, LaPorte RE.** The importance of incidence registries for connective tissue diseases. *J Rheumatol.* 1992 Jan;19(1):1-7.
10. **McKnight PT, Kwoh CK.** Randomized, controlled trial of compression gloves in rheumatoid arthritis. *Arthritis Care Res.* 1992 Dec;5(4):223-7.
11. **Cauley JA, Kwoh CK, Egeland G, Nevitt MC, Cooperstein L, Rohay J, Towers A, Gutai JP.** Serum sex hormones and severity of osteoarthritis of the hand. *J Rheumatol.* 1993 Jul;20(7):1170-5.
12. **McCarty DJ, Tull ES, Moy CS, Kwoh CK, LaPorte RE.** Ascertainment corrected rates: applications of capture-recapture methods. *Int J Epidemiol.* 1993 Jun;22(3):559-65.
13. **Port J, DiGioia AM, Kwoh CK, Harner CD.** A technique for valgus high tibial osteotomy. *Am J Knee Surg.* 1993;6(4):135-44.
14. **Lynn AH, Kwoh CK, Venglish CM, Aston CE, Chakravarti A.** Genetic epidemiology of rheumatoid arthritis. *Am J Hum Genet.* 1995 Jul;57(1):150-9. PMID: PMC1801237
15. **McCarty DJ, Manzi S, Medsger TA, Jr., Ramsey-Goldman R, LaPorte RE, Kwoh CK.** Incidence of systemic lupus erythematosus. Race and gender differences. *Arthritis Rheum.* 1995 Sep;38(9):1260-70.
16. **Munin MC, Kwoh CK, Glynn N, Crossett L, Rubash HE.** Predicting discharge outcome after elective hip and knee arthroplasty. *Am J Phys Med Rehabil.* 1995 Jul-Aug;74(4):294-301.
17. **Radis CD, Kahl LE, Baker GL, Wasko MC, Cash JM, Gallatin A, Stolzer BL, Agarwal AK, Medsger TA, Jr., Kwoh CK.** Effects of cyclophosphamide on the development of malignancy and on long-term survival of patients with rheumatoid arthritis. A 20-year followup study. *Arthritis Rheum.* 1995 Aug;38(8):1120-7.
18. **Schmidt CC, Georgescu HI, Kwoh CK, Blomstrom GL, Engle CP, Larkin LA, Evans CH, Woo SL.** Effect of growth factors on the proliferation of fibroblasts from the medial collateral and anterior cruciate ligaments. *J Orthop Res.* 1995 Mar;13(2):184-90.
19. **Seaman DE, Londino AV, Jr., Kwoh CK, Medsger TA, Jr., Manzi S.** Antiphospholipid antibodies in pediatric systemic lupus erythematosus. *Pediatrics.* 1995 Dec;96(6):1040-5.
20. **Zavadak KH, Gibson KR, Whitley DM, Britz P, Kwoh CK.** Variability in the attainment of functional milestones during the acute care admission after total joint replacement. *J Rheumatol.* 1995 Mar;22(3):482-7.
21. **American College of Rheumatology Ad Hoc Committee on Clinical Guidelines (co-chair).** Guidelines for the management of rheumatoid arthritis. *Arthritis Rheum.* 1996 May;39(5):713-22.
22. **American College of Rheumatology Ad Hoc Committee on Clinical Guidelines (co-chair).** Guidelines for monitoring drug therapy in rheumatoid arthritis. *Arthritis Rheum.* 1996 May;39(5):723-31.
23. **Kwoh CK, Venglish C, Lynn AH, Whitley DM, Young E, Chakravarti A.** Age, sex, and the familial risk of rheumatoid arthritis. *Am J Epidemiol.* 1996 Jul 1;144(1):15-24.
24. **Pioro MH, Kwoh CK.** Update on measurement of relevant outcomes in rheumatology. *Curr Opin Rheumatol.* 1996 Mar;8(2):101-5.
25. **Tomlin GS, Holm MB, Rogers JC, Kwoh CK.** Comparison of standard and alternative health assessment questionnaire scoring procedures for documenting functional outcomes in patients with rheumatoid arthritis. *J Rheumatol.* 1996 Sep;23(9):1524-30.
26. **Kwoh CK, Petrick MA, Munin MC.** Inter-rater reliability for function and strength measurements in the acute care hospital after elective hip and knee arthroplasty. *Arthritis Care Res.* 1997 Apr;10(2):128-34.
27. **Scherping SC, Jr., Schmidt CC, Georgescu HI, Kwoh CK, Evans CH, Woo SL.** Effect of growth factors on the proliferation of ligament fibroblasts from skeletally mature rabbits. *Connect Tissue Res.* 1997;36(1):1-8.
28. **Hoffman GS, Drucker Y, Cotch MF, Locker GA, Easley K, Kwoh K.** Wegener's granulomatosis: patient-reported effects of disease on health, function, and income. *Arthritis Rheum.* 1998 Dec;41(12):2257-62.
29. **Holm MB, Rogers JC, Kwoh CK.** Predictors of functional disability in patients with rheumatoid arthritis. *Arthritis Care Res.* 1998 Oct;11(5):346-55.
30. **McCarty DJ, Kwoh CK, Ramsey-Goldman R, Manzi S, Medsger TA, Jr.** We need simple guidelines for reporting rates of rheumatic diseases. *Arthritis Rheum.* 1999 Mar;42(3):585.
31. **Fitzgerald SG, Kwoh CK, McCarty D, Ramsey-Goldman R, Medsger TA, Jr., Manzi S.** The Lupus Foundation as an additional source for case ascertainment: developing a community-based lupus registry. *Arthritis Care Res.* 2000 Jun;13(3):137-40.

32. Ibrahim SA, **Kwoh CK**. Underutilization of oral anticoagulant therapy for stroke prevention in elderly patients with heart failure. *Am Heart J*. 2000 Aug;140(2):219-20.
33. Ibrahim SA, **Kwoh CK**. Theories on black/white differences in the incidence of cardiovascular disease: a historical perspective. *Urban Cardiol*. 2000;7(3):16-23.
34. Ibrahim SA, **Kwoh CK**, Harper DL, Baker DW. Racial differences in the utilization of oral anticoagulant therapy in heart failure: a study of elderly hospitalized patients. *J Gen Intern Med*. 2000 Feb;15(2):134-7. PMID: PMC1495339
35. Dorman JS, Steenkiste AR, Foley TP, Strotmeyer ES, Burke JP, Kuller LH, **Kwoh CK**. Menopause in type 1 diabetic women: is it premature? *Diabetes*. 2001 Aug;50(8):1857-62.
36. Ibrahim SA, Cook CF, Snow JS, Harper DL, Norris D, **Kwoh CK**. Racial differences in mortality among elderly, hospitalized patients with heart failure. *Res Aging*. 2001;23(4):457-72.
37. Ibrahim SA, Siminoff LA, Burant CJ, **Kwoh CK**. Variation in perceptions of treatment and self-care practices in elderly with osteoarthritis: a comparison between African American and white patients. *Arthritis Rheum*. 2001 Aug;45(4):340-5.
38. **Kwoh CK**, Ibrahim SA. Rheumatology patient and physician concordance with respect to important health and symptom status outcomes. *Arthritis Rheum*. 2001 Aug;45(4):372-7.
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199. Xu L, Hayashi D, Guermazi A, **Kwoh CK**, Hannon MJ, Jarraya M, Moore CE, Jakicic JM, Green SM, Roemer F. Frequency of mediopatellar plica in persons with chronic knee pain and its cross-sectional association with patellofemoral cartilage damage and bone marrow lesions: Data from the Joints on Glucosamine study. *Arthritis Rheum* 2012;64 Suppl 10:S446.

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202. Roemer FW, **Kwoh CK**, Hannon MJ, Boudreau R, Hunter DJ, Eckstein F, Wang Z, Grago J, Guermazi A. Subchondral bone marrow lesions predict incident radiographic osteoarthritis. *Ann Rheum Dis* 2013, in press.

### INVITED TALKS AND PRESENTATIONS

Title	Meeting	Institution/Sponsor/Location
<b>1987</b>		
“Newer Treatment for Rheumatoid Arthritis”	Regional Meeting	American College of Physicians Pennsylvania Chapter
“Update on Connective Tissue Disease”	Continuing Medical Education Outreach Program to Physicians And Staff at Waren Hospital	University of Pittsburg
<b>1988</b>		
“Evaluation and Diagnosis of Shoulder Problems:	Refresher Course in Family Practice	University of Pittsburgh-Center for Continuing Education and Saint Margaret Memorial Hospital
“Mortality and Rheumatoid Arthritis”	Annual Meeting	Arthritis Foundation Western Pennsylvania Chapter (AF-WPC)
<b>1989</b>		
“New Treatment of Rheumatoid Arthritis”	Update in Internal Medicine Course	University of Pittsburgh School of Medicine
“Update on Family Studies in Rheumatoid Arthritis”	Executive Committee Meeting	AF-WPC
<b>1990</b>		
“Incorporating Patient Preference in Assessing Treatment Outcomes of Rheumatoid Arthritis Patients”		Case Western Reserve University
“New Treatment of Rheumatoid Arthritis”	Update in Internal Medicine Course	University of Pittsburgh School of Medicine
<b>Title</b>	<b>Meeting</b>	<b>Institution/Sponsor/Location</b>
“Rheumatoid Arthritis in Autoimmune Diseases”	St. John Medical Center	University of Pittsburgh Continuing Education in the Health Sciences

“Update on Rheumatoid Arthritis”	Medical Grand Rounds	University of Pittsburgh
“Genetics of Rheumatoid Arthritis”	Annual Meeting	AF-WPC
<b>1991</b>		
“Overview of Rheumatoid Arthritis and Connective Tissue Disease”	Orthopaedic Basic Science Seminar	University of Pittsburgh Medical Center (UPMC)
“Epidemiology of Systemic Lupus Erythematosus”		Veterans General Hospital, Shih-Pai, Taipei, Taiwan
<b>1992</b>		
“Arthritis in the Elderly Patient”	Washington Hospital	University of Pittsburgh School Of Medicine Continuing Medical Education
“What’s Going on in Arthritis Research in Pittsburgh”	Support Group	Arthritis Foundation and St. Margaret Memorial Hospital
<b>1993</b>		
“Outcomes Following Total Joint Replacement”		Regenstrief Institute, Indiana University
<b>1994</b>		
“Etiologic Risk Factors for Rheumatoid Arthritis”	Medical Grand Rounds	Case Western Reserve University
“Osteoarthritis: Outcomes and Non-Pharmacologic Intervention”	Medical Grand Rounds	Christ Hospital, Cincinnati, OH
“Outcomes Following Total Joint Replacement”	Rheumatology Grand Rounds	NEOMAC Case Western Reserve University
<b>1995</b>		
“Outcomes Following Total Joint Replacement”	Rheumatology Grand Rounds	Cleveland Clinic
“Outcomes Following Total Joint Replacement”	Topics in Geriatric Medicine	Cleveland VAMC
<b>Title</b>	<b>Meeting</b>	<b>Institution/Sponsor/Location</b>
<b>1996</b>		
“Development of Research Protocols to Study the Efficacy of Osteopathic	Current Challenges to MD’s and DO’s	Josiah Macy, Jr. Foundation, Santa Fe, NM



Manipulative Therapy”

“Lower Extremity Joint Replacement: Who Needs Rehab?” Annual Meeting Robert Wood Johnson Clinical Scholars, Ft. Lauderdale, FL

**1997**

“Genetic Risk Factors and Prognosis in Rheumatoid Arthritis” Seventh Annual Cleveland Review of Rheumatic Diseases Cleveland, Ohio

**1998**

“Epidemiology of Juvenile Rheumatoid Arthritis” Department of Epidemiology and Biostatistics Research Seminar Case Western Reserve University

“Epidemiology of Juvenile Rheumatoid Arthritis” Rheumatology Grand Rounds Cleveland Clinic Foundation Cleveland, OH

“Outcomes of Rheumatology Rehabilitation” National Advisory Committee Meeting National Center for Medical Rehabilitation Research Washington, DC

“Epidemiology of Juvenile Chronic Arthritis” Rheumatology Grand Rounds University of Cincinnati Cincinnati, OH

**2000**

“Epidemiology of Juvenile Chronic Arthritis” Rheumatology Grand Rounds University of Pittsburgh

“Ethnic Disparities in Joint Replacement” Annual Research Symposium University of Pittsburgh Arthritis Institute

“Ethnic Differences in the Management of Osteoarthritis” Conference on Health Disparities in Arthritis, Musculoskeletal and Skin Diseases National Institute on Arthritis, Musculoskeletal and Skin Diseases, Washington DC

**2001**

“Ethnic Differences in the Management of Osteoarthritis” Rheumatology Grand Rounds Cedars-Sinai Medical Center, Los Angeles, CA

“Ethnic Differences in the Management of Osteoarthritis” Medical Grand Rounds Olive-View Medical Center, Los Angeles, CA

**Title**

**Meeting**

**Institution/Sponsor/Location**

“New Treatment for Rheumatoid Arthritis” Update in Internal Medicine 2001 University of Pittsburgh School of Medicine

**2003**

“Health Disparities”	Annual Meeting	American College of Rheumatology, Orlando, FL
“New Concepts in the Management of Osteoarthritis and Rheumatoid Arthritis”	Update in Internal Medicine 2003, Practical Approaches to Common Medical Problems	Pittsburgh, PA
“Potential Reasons for Ethnic Disparities in Total Joint Replacement”	Conference on Racial and Ethnic Disparities Musculoskeletal Medicine	AAOS/AHRQ Washington, DC
<b>2004</b>		
“Know Bones About It: An Osteoporosis Prevention Program”	Pennsylvania Osteoporosis Coalition	Split Rock Resort, Lake Harmony, PA
<b>2006</b>		
“The Role of Disparities in Access to and Outcomes of Health Services, Moderator”	Clinical Research Conference: Reducing Disparities in Prevalence and Impact of Rheumatic Diseases	American College of Rheumatology
<b>2007</b>		
“Racial Differences in Joint Replacement Utilization as a Model to Study Health Disparities”	Grand Rounds	Wake-Forest University, Winston-Salem, NC
“Osteoarthritis”	Advanced Epidemiology of Aging	University of Pittsburgh
“Your Knee MRI – What are we looking at?”	OAI Participant Reception	University of Pittsburgh
“Conceptual Issues in Developing a Risk Assessment Tool For OA”	Segal North American Osteoarthritis Workshop (SNOW)	Northwestern University, Chicago IL
<b>2008</b>		
“Where is OA Pain located in the knee?”	Osteoarthritis Initiative Renewal meeting, June 2008	Bethesda, MD
“Moving from Guidelines to Standards of Care”	Annual Conference, September	OARSI, Rome Italy
“OARSI recommendations for the Management of hip and knee OA”	Internal Medicine Grand Meeting Rounds, September 2008	University of Pittsburgh <b>Institution/Sponsor/Location</b>
“Translating rheumatoid arthritis treatment	Annual Conference, October	ACR, San Francisco, CA

Guidelines into quality measures”	2008	
“Osteoarthritis”	Rheumatology Summer Didactic, September 2008	University of Pittsburgh
“Osteoarthritis”	Rheumatology Resident Noon Conference Lecture, September 24-25,2008	VA Pittsburgh Healthcare System & University of Pittsburgh
“Risk factors for Osteoarthritis”	National Institutes of Health NIAMS Day, October 2008	Bethesda, MD
“Biomarkers in the Osteoarthritis	Post-Joint Injury Osteo - Arthritis Conference, December 2008	AOSSM, New Orleans, LA
<b>2009</b>		
“Osteoarthritis”	Immunology in Health and Disease, January 2009	University of Pittsburgh
“Osteoarthritis”	Advanced Epidemiology of March 2009	University of Pittsburgh
“Update on the AF Knee OA Screening	Steering Committee Meeting March 2009	Osteoarthritis Initiative
“Osteoarthritis”	Rheumatology Summer Didactic, August 2009	University of Pittsburgh
“Osteoarthritis”	Grand Rounds, May 2009	Mercy Hospital, Pittsburgh
“Osteoarthritis of the Knee”	Mini Course, April 2009	University of Pittsburgh
“Epidemiology of Osteoarthritis”	Geriatric Research Education And Clinical Center Seminar Series, March 2009	VA Pittsburgh Healthcare System
“The Joints on Glucosamine (JOG) Study A Randomized, Double-Blind, Placebo-Controlled Trial to Assess the Structural Benefit of Glucosamine in Knee Osteoarthritis Based On 3T MRI”	Annual Conference, October 2009	ACR, Philadelphia, PA
<b>2010</b>		
‘Osteoarthritis Initiative’	Musculoskeletal Imaging Conference, March, 2010	UPMC
<b>Title</b>	<b>Meeting</b>	<b>Institution/Sponsor/Location</b>
“Update on AF Knee OA Screening tool	OAI Steering Committee Meeting, April 2010	OAI, Chicago, IL

“Risk factors for the development and Progression of knee osteoarthritis: New developments for the the Osteoarthritis Initiative (OAI) and other studies”	Seminar May 13, 2010	Southwest Research Institute, San Antonio, TX
“Risk factors for the development and Progression of knee osteoarthritis: New developments for the the Osteoarthritis Initiative (OAI) and other studies”	Seminar May 14, 2010	Southwest Frounation for Biomedical Research, San Antonio, TX
“Osteoarthritis Diagnosis and Management”	UMPC Resident Noon Conference, September 2010	UMPC
“Identification of specific x-ray or MRI Morphologic features associated with Different knee pain patterns on the knee Pain map”	BONE and CARTILAGE IV and related domains Looking to the future, October 2010	Novartis, Boston MA
“Should the changes in evidence influence Clinical pathways, quality indicators and Minimal standards of care”	OARSI Annual Conference September 2010	Osteoarthritis Research Society International, Brussels, Belgium
“Osteoarthritis	Summer Didactic, October 2010	University of Pittsburgh
“PITT-MCRC Administrative Core”	PITT-MCRC External Site Visit, October 2010	University of Pittsburgh
“Disparities in Joint Replacement: Pathway To Intervention”	PITT-MCRC External Site Visit, October 2010	University of Pittsburgh
“The knowledge gained from the Osteoarthritis Initiative (OAI)	Post-Joint Injury Osteoarthritis Conference, December 2010	AOSSM, New Orleans, LA

## 2011

“Disparities in Joint Replacement: Pathway to Intervention”	Health Services Research Seminar, February 2010	Center for Research on Health Care (CRHC), Center for Health Equity Research and Promotion (CHERP), and RAND-Pittsburg
“Osteoarthritis”	Immunology in Health And Disease	University of Pittsburg
“Osteoarthritis”	Advanced Epidemiology of Aging (EPIDEM 2900) March 2011	University of Pittsburg
<b>Title</b>	<b>Meeting</b>	<b>Institution/Sponsor/Location</b>
“Relating structural OA progressions (X-ray And MRI) to clinical outcome in the OAI”	5 <sup>th</sup> International Wordshop on Osteoarthritis Imaging, June 2011	OARSI

“Osteoarthritis Diagnosis And Management”	Summer Didactic, July 2011	University of Pittsburg
“Development of a Screening Tool For Knee Osteoarthritis”	Presented by Dr. Patience White, July 2011	Arthritis Foundation
“Osteoarthritis and Rheumatoid Arthritis”	LIFE Study Successful Aging Workshop August 2011	University of Pittsburgh
“Racial Differences in Joint Replacement Utilization as a Model to Study Health Disparities”	National Caucus on Arthritis and Musculoskeletal Health Disparities, September 2011	Movement is Life: Catalyst for Change, Washington, DC
“Update on the Epidemiology of Osteoarthritis”	Department of Orthopaedic Surgery Arthritis Center September 2011	Beijing People’s Hospital Beijing, China
“Identification of MRI Morphologic Features Associate with Different Knee Pain Patterns”	OARSI World Congress, San Diego, September 2011	OARSI
<b>2012</b>		
“Epidemiology of Rheumatoid Arthritis”	Chronic Disease Epidemiology (EPIDEM 2170) February 2010	University of Pittsburgh
“Patterns of Pain: Correlation with MRI Imaging”	Symposium: Advances in the Understanding and Management of Chronic Pain Associate with OA, April 2012	OARSI World Confernece Barcelona, Spain
“Evidence of Surrogacy - What Imaging Data Predicts the Development of Long-Term Clinical Outcomes”	Osteoarthritis Biomarkers Imaging Workshop July 2012	OARSI, Hilton Head, SC
“Osteoarthritis Diagnosis and Management”	Summer Didactic August 2012	University of Pittsburg
“Osteoarthritis Diagnosis and Management”	Medical Resident Lecture September 2012	University of Pittsburg
“Are African American patients More Likely to Receive a Total Knee Arthroplasty In a Low-Quality Hospital”	Journal Club October 2012	University of Pittsburgh
“Patterns of Pain : Relationship with MRI Imaging” <b>Title</b>	Annual Conference November 2012 <b>Meeting</b>	American College of Rheumatology <b>Institution/Sponsor/Location</b>
“Racial Differences in Joint Replacement Utilization as a Model to Study Health Disparities”	Intervention Research on Healthcare Disparities Phase 3: Translational and	University of Pittsburgh

Implementation Research to  
Intervene on Health Disparities  
November 2012

“Epidemiology of Rheumatoid Arthritis”

Chronic Disease  
Epidemiology  
November 2012

University of Pittsburgh

**2013**

“Osteoarthritis: Update on Knee Pain  
And Management”

School of Medicine Grand  
Rounds

University of Pittsburgh

“Imaging biomarkers of important  
Long-term clinical outcomes in knee  
Osteoarthritis

Annual OAI Steering  
Committee Meeting  
March, 2013

Osteoarthritis Initiative  
Steering Committee Meeting  
Scottsdale, AZ

**MENTORSHIP**

Current Mentees

<b>Mentee</b>	<b>Years of Mentorship</b>	<b>Research Project</b>	<b>Funding Source</b>
Robyn Domsic, MD Assistant Professor of Medicine	2008-present	The development of two- and five- year mortality risk prediction rules for early diffuse scleroderma patients	K23 AR057485
Shawn Farrokhi, PT, DPT Assistant Professor of Physical Therapy	2010-present	Patellofemoral pain and OA	Comprehensive Opportunities in Rehabilitation Research Training K12 HD055931
Leslie Hausmann, PhD Assistant Professor of Medicine	2010-present	Identifying Mechanisms Linking Perceived Discrimination and Health	VA HSR&D CDA RCD 06-287
Isaac James, MS2	2011-present	Knee Osteoarthritis: The Relationship between Specific Knee Pain Patterns and Functional Performance Measures	Dean's Summer Research Program T35 AT005933
Joseph Devich, DO Medical Resident	2011-present	Different of Patterns Knee Pain Trajectories: longitudinal data from the Osteoarthritis Initiative (OAI)	Internal Medicine Resident, UPMC Shadyside Hospital
Ernest Vina, MD, MSc	2011-present	Racial Disparities in Treatment Preferences Among Lupus Patients/ Quality and Equity in Osteoarthritis Management: The Role of the Provider	Rheumatology Scientist Development Award ACR Research and Education Foundation

**MENTORSHIP**

Past Mentees

<b>Mentee</b>	<b>Years of Mentorship</b>	<b>Research Project or Dr. Kwoh's Role</b>	<b>Current Position</b>
Dennis Ang, MD, MPH	1999-2000	Role of prayer in the treatment of arthritis	Professor of Medicine and Chief, Division of Rheumatology, Wake Forest University
Cathy Appelt , PhD	2004-2006	Arthritis-Specific health beliefs related to aging among older male patients with knee and/or hip osteoarthritis	Postdoctoral Associate, Department of Psychiatry, University of Pittsburgh 1/2011
Amanda Brown, MD	2009-2011	Sensitivity of 3 Dimensional and Thermal Imaging and Pain Scales to Changes in Disease Activity in JIA and RA patients	Assistant Professor, Division of Rheumatology, Department of Pediatrics, Louisiana State University 7/2011
Christopher Burant, PhD	1998-2000	Optimism/pessimism as a mediator of social structure disparities: Effects on physical health and psychological well-being	Assistant Professor Nursing and Bioethics, Case Western Reserve University School of Medicine 1/2011
Joseph Enama, MD	2006- 2008	Use of 3-D laser and thermal imaging to assess synovitis in rheumatoid arthritis	Division of Rheumatology, Penn State Hershey Medical Center, Hershey, PA
Sarah Goldberg	1999	Research supervisor, Post-Doctoral Research Fellow (Women's Health) at Case Western Reserve University	Private practice, Denver CO
Said Ibrahim	1997-2007	Racial disparity in joint replacement utilization (VA HSR&D CDAs)	Professor, of Medicine, University of Pennsylvania, Director, Philadelphia VAMC Center of Excellence for Health Equity Research and Promotion (VA HSR&D Merit Reviews, Harold Amos RWJF Award, RoI's, K-24)
Carolyn Ievers-Landis, PhD	1999-2000	Social support, knowledge, and self-efficacy as correlates of osteoporosis preventive behaviors among preadolescent females.	Assistant Professor of Pediatrics, Rainbow Babies & Children's Hospital 1/2011
Alvin Jones, MD	2004-2007	Racial Disparity in Knee Arthroplasty Utilization, Role of prayer in the treatment of arthritis	Orthopaedic Resident at West Virginia University Hospitals 1/2011
Dina Jones, PT, PhD	2002-2001	Physical activity in individuals with knee osteoarthritis prior to primary total knee arthroplasty	Assistant Professor, Dept. Orthopaedic Surgery, WVU 1/2011

**MENTORSHIP**Past Mentees

<b>Mentee</b>	<b>Years of Mentorship</b>	<b>Research Project or Dr. Kwoh's Role</b>	<b>Current Position</b>
John P Lopez , MD, MSc	2003-2004	Racial health disparities in surgical procedures for osteoarthritis	Pediatric Emergency Medicine at Monmouth Medical Center, Monmouth, NJ 1/2011
Alyssa Majesko, MD	2009-2010	Gender and Unwanted Outcomes after Total Hip and Knee Arthroplasty: A risk-adjusted analysis	Fellow, University of Pittsburgh Department of Critical Care Medicine 1/2011
Mathilde Pioro, MD	1997-1998	Supervised Research Project, Research Fellow, Cleveland VAMC, Case Western Reserve University	Assistant Professor, Case Western Reserve University Department of Medicine 1/2011
Mark Prashker, MD, MPH	1989-1990	Research Elective Supervisor while Dr. Prashker was a medical student at Presbyterian-University Hospital	Associate Dean, Institutional Development Associate Professor, Health Policy & Management, Boston University School of Public Health 1/2011
Charles Radis, DO	1992-1993	Long-term toxicity associated with the use of cyclophosphamide for the treatment of rheumatoid arthritis  Supervised Research Project, Rheumatology Fellow, Presbyterian-University Hospital	Clinical Professor of Medicine, University of New England College of Osteopathic Medicine Clinical Assistant Professor of Medicine, University of Vermont; Clinical Assistant Professor of Medicine, Tufts-MMC Medical School Private practice, Portland, ME 1/2011
Paul Rosen, MD	2006- 2011	Electronic doctor/patient communication	Assistant Professor, Division of Rheumatology Nemours/Alfred I. duPont Hospital for Children 7/2011
Rui Song, MD	1999	Faculty for Sponsor 1999 American Federation for Aging Research, Medical Student Geriatric Scholars Program at Case Western Reserve University	Private practice, Rose Imaging Specialists, Houston, TX 1/2011



**MENTORSHIP**Past Mentees

<b>Mentee</b>	<b>Years of Mentorship</b>	<b>Research Project or Dr. Kwoh's Role</b>	<b>Current Position</b>
Nehal Shah, MD	2010-2011	Knee Pain Map	Assistant Professor, Division of Rheumatology Virginia Commonwealth University Medical Center, Richmond, VA 7/2012
Steven Spalding, MD	2005-2007	Three-dimensional and thermal surface imaging: a potential tool for quantifying arthritis	Cleveland Clinic Department of General Pediatrics 1/2011
Laura Thompson, MD (Raducha-Grace)	2005- 2009	The knee pain map: The reliability and reproducibility of assessing knee pain localization and patterns	Assistant Professor, Department of Emergency Medicine, Ohio State University, Columbus, Ohio 7/2012
Alexander Tsai, MD, PhD	2000	Faculty for Sponsor 2000 American Federation for Aging Research, Medical Student Geriatric Scholars Program at Case Western Reserve University	Robert Wood Johnson Health & Society Scholar, Harvard University 1/2011
Kathryn S. Wildy, MD	2001-2004	MRI findings associated with knee pain: Analysis of discordant knee pairs in Health ABC	Private practice, Rheumatology, Omaha, NE 1/2011 (ACR REF Post-doctoral Fellowship Award, ACR REF Geriatrics Career Development Award)

**Mentorship**Dissertation/Thesis Committees

<b>Individual</b>	<b>Year</b>	<b>Role</b>	<b>School and Degree</b>
Mary Lucas	1992	Member, Master Thesis Committee	University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology, MPH
			“A Survey of Work Instability Among Individuals with Rheumatoid Arthritis”
Kathy Dwyer	1993	Member, Doctoral Dissertation Committee	University of Pittsburgh, School of Nursing, PhD
			“Psychosocial Factors and Health Status in Rheumatoid Arthritis: A Predictive Model”
Robyn Anderson	1993	Member Doctoral Dissertation Committee	University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology, PhD
			“The Relationship of Physical Activity and Injury Liability in Adolescents”

## **Mentorship**

### Dissertation/Thesis Committees

<b>Individual</b>	<b>Year</b>	<b>Role</b>	<b>School and Degree</b>
Audrey Lynn	1993	Member Master Thesis Committee	University of Pittsburgh, Graduate School of Public Health, Department of Human Genetics, MS
			“Genetic and Epidemiologic Analysis of Rheumatoid Arthritis”
Ingrid Libman	1994	Member Master Thesis Committee	University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology, MPH
			“Epidemiology of Rheumatoid Arthritis”
Daniel J McCarty	1995	Member Doctoral Dissertation Committee	University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology, PhD, Recipient of Arthritis Foundation Pre-Doctoral Dissertation Award
			“Epidemiology of Systemic Lupus Erythematosus in Pennsylvania”
Shirley Groer Fitzgerald	1997	Member Doctoral Dissertation Committee	University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology, PhD, Recipient of Arthritis Foundation Pre-Doctoral Dissertation Award
			“Outcome of Systemic Lupus: Role of Socioeconomic Factors”
Jane Brown		Member Doctoral Dissertation Committee	Recipient of Arthritis Foundation Pre-Doctoral Dissertation Award
			“Determinants of Exercise Adherence in Patients with Arthritis”
Mary Milodonis		Reader, Doctoral Dissertation Committee	Recipient of an Individual HRSA from the Agency for Healthcare Policy and Research
			“Expectation Measurement for Persons with Hip Replacement and the Association of Expectations to Outcomes”
Christopher Burant	2006	Member Doctoral Dissertation Committee	Case Western Reserve University, Department of Sociology, PhD
			Optimism/pessimism as a mediator of social structure disparities: Effects on physical health and psychological well-being: A longitudinal study of hospitalized elders

### Faculty Supervision

1992-1993	Michael Munin, M.D., University of Pittsburgh School of Medicine, Department of Orthopedics, Section of Physical Medicine and Rehabilitation, Served as Primary Mentor for Dr. Munin’s National Institute on Disability Rehabilitation Research, Research Enrichment Award for Psychiatrists
	Joan Roger, PhD, OTR, University of Pittsburgh School of Health and Rehabilitation Sciences, Department of Occupational Therapy. Served as Medical Supervisor on Dr. Roger’s project entitled, “An Evaluation of Assistant Device Usage in Patients with Rheumatic Disease,” funded by the Arthritis Foundation
1996-1997	Kenneth Covinsky, MD, MPH, Case Western Reserve University

1997-2007	Said Ibrahim, MD, MPH, Cleveland VAMC, Case Western Reserve University, Served as primary mentor for Dr. Ibrahim's Research Career Development Award 2000-2003, Advanced Research Career Development Award 2003-2006, Health Services Research and Development Service, Department of Veterans Affairs 2000-2003, Robert Wood Johnson Minority Medical Faculty Development Program 2003-2007
1999-2004	Tonya Palemo, PhD, Department of Pediatrics Case Western Reserve University. Served as mentor and Co-Sponsor for Mentored Patient-Oriented Research Career Development Award
2000-2005	Carolyn Landis, PhD, Department of Pediatrics Case Western Reserve University. Served as mentor and Co-Sponsor for Mentored Patient-Oriented Research Career Development Award
2002-2005	Elizabeth Schlenk, RN, PhD, University of Pittsburgh School of Nursing. Served as primary mentor on NINR K01 Mentored Research Scientist Development Award
2003-2008	Adeel Butt, MD, University of Pittsburgh School of Medicine. Served as primary mentor on NIH K-23 Mentored Patient-Oriented Research Career Development Award
2004-2006	Tamara Baker, PhD, University of South Florida School of Aging Studies. Served as primary mentor on NIH Diversity supplement.
2005-2007	Eswar Krishnan, MD, MPhil, University of Pittsburgh School of Medicine. Served as primary mentor on K12 Clinical Research Scholars Program

## RESEARCH

### ACTIVE GRANT SUPPORT

#### University of Pittsburgh

Grant Number (Funded)	Grant Title	Role in Project and Calendar Months (CM)	Years Inclusive	Annual Direct Costs
<b>National Institutes of Health</b>				
P60 AR054731 NIAMS	Pitt-Multidisciplinary Clinical Research Center (MCRC) for Rheumatic and Musculoskeletal Diseases	PI/Director	9/1/2007- 8/31/2012	\$665,261
		PI- Administrative Core 2.4 Pitt CM	9/1/2007- 8/31/2012	\$155,055
		Co-PI - Project 2 1.44 Pitt CM	9/1/2007- 7/31/2012	\$144,541
NHLBI-CSB-AR- 2012-2014-KB NIAMS	Osteoarthritis Initiative Clinical Center Contract (OAI)	PI 3.84 Pitt CM	7/15/2002 – 10/14/2014	\$801,321
HHSN 268201000021C- 1-0-1 NHLBI	Pivotal OAI MRI Analyses (POMA)	PI 1.2 Pitt CM	6/15/2010 – 5/31/2015	\$509,964
R01 AR056630 NIAMS	Single- vs. Double-Bundle ACL Reconstruction: A Prospective Randomized Trial	Co-Inv (Irrgang, PI) .6 Pitt CM	9/01/10 – 8/31/15	\$396,373

Grant Number (Funded)	Grant Title	Role in Project and Calendar Months (CM)	Years Inclusive	Annual Direct Costs
R01 NR010904 NINR	Promoting Physical Activity in Older Adults with Comorbidity	Co-Inv (Schlenk, PI) .17 Pitt CM	3/19/10 - 1/31/14	\$290,909
<b>Training Grants</b>				
T32 AR052282	Pittsburgh Pediatric Rheumatology Training Grant	Faculty (Hirsch, PI) 0 CM	05/01/2005- 04/30/2015	
T32 AG021885	Pittsburgh Clinical Research Training – Geriatrics/Oncology	Faculty (Studenski, PI) 0 CM	4/30/2003- 5/1/2013	
T32 AG 000181	Aging Epidemiology Training Program	Faculty (Newman, PI) 0 CM	7/1/1989- 6/30/2013	
T32 AI089443	Autoimmunity and Immunopathology Training Program	Faculty (Morel, PI) 0 CM	9/1/2010 – 8/31/2015	
<b>Other Funding Sources</b>				
U48DP001918 Centers for Disease Control	Health Promotion and Disease Prevention Research Center	Co-Inv (Newman, PI) .9 Pitt CM	3/1/2010 - 2/28/2015	\$588,447

\* Dr. Kwoh holds a joint appointment with the University of Pittsburgh and Pittsburgh Veterans Administration Medical Center (VAMC). Both appointments are active 12-month appointments. As PHS policy is to treat a joint University/VA appointment as one full-time equivalent, the calendar months reflected on this table represents effort of each individual appointment.

#### PRIOR GRANT SUPPORT

Grant Number (Funded)	Grant Title	Role in Project and Percentage of Effort	Years Inclusive	Annual Direct Costs
Arthritis Foundation Western PA Chapter	Work History in An Inception Cohort of Patients with Rheumatoid Arthritis: A 15- Year Follow-Up	PI	1/1/91-12/31/91	\$1,000
Arthritis Foundation Western PA Chapter	Factors Predictive of Survival in Patients with Rheumatoid Arthritis	PI	1/1/87-12/31/87	\$6,800
Arthritis Foundation Western PA Chapter	Patterns of Survival in New Onset Rheumatoid Arthritis: A Ten-Year Longitudinal Follow- Up	PI	1/1/88-12/31/88	\$10,000
Arthritis Foundation Western PA Chapter	Development of a New Index of Health Status Based on Patient Preference	Co-PI (Garty, PI)	1/1/88-12/31/88	\$10,000
Health Research and Services Foundation	Determinants of Premature Death in New Onset Rheumatoid Arthritis	PI	1/1/88-12/31/88	\$11,000

<b>Grant Number (Funded)</b>	<b>Grant Title</b>	<b>Role in Project and Percentage of Effort</b>	<b>Years Inclusive</b>	<b>Annual Direct Costs</b>
Arthritis Foundation	An Evaluation of Assistive Device Usage in Patients with Rheumatic Disease	Medical Supervisor (Rogers, PI)	7/1/88-6/30/91	\$43,000
				\$349,949
R29-NIAMS	Epidemiology of Rheumatoid Arthritis: Genetic Determinants	PI	4/1/89-3/31/94	
R01-NCNR	Adherence in Rheumatoid Arthritis: Nursing Intervention	Co-PI (Dunbar-Jacob, PI)	2/1/90-1/31/93	\$542,052
Commonwealth of Pennsylvania	The Epidemiology of Systemic Lupus Erythematosus in Pennsylvania	Co-PI (Medsger, Jr., PI)	11/1/90-1/31/93	\$123,695
Arthritis Foundation Pre- Doc Dissertation Award	Epidemiology of Systemic Lupus Erythematosus	Primary Mentor (McCarty, PI)		
R01-NIDDK	Familial Epidemiology: IDDM, Arthritis, & Thyroid Disease	Co-Investigator (Dorman, PI)	7/1/92-6/30/96	\$1,325,829
NIAMS	Incidence of Juvenile Rheumatoid Arthritis	PI	9/1/92-8/30/94	\$80,000 (Shannon Award)
R01-NIAMS	Incidence of Juvenile Rheumatoid Arthritis	PI	7/1/94-6/30/00	\$858,471
P-60 NIAMS	Northeast Ohio Multipurpose Arthritis Center	(NEOMAC Co- Director, Education, Epidemiology and Health Services Research Component EEHSR	7/1/93-6/30/98	\$2,982,948
Elizabeth Severance Prentiss Foundation	Cleveland Osteoporosis Study	PI	2/1/96-1/31/01	\$225,000
HSR&D, Department of Veterans Affairs	Ethnic/Cultural Differences in the Management of Osteoarthritis	PI	2/1/96-1/31/01	\$750,000 (Merit Review)
P-60 NIAMS	Osteoporosis Prevention: Be A Star, Bank on Your Bones (Northeast Ohio Multipurpose Arthritis Center Sub Project)	PI (Subproject)	7/1/98-6/30/02	\$507,383
P-60 NIAMS	Northeast Ohio Multipurpose Arthritis Center	Director of the Education, Epidemiology and Health Services Research component	7/1/98-6/30/02	\$2,674,503
Department of Veterans Affairs	Cleveland GRECC (Geriatric Research, Education, and Clinical Center)	Associate Director for Clinical Research	4/1/99-3/31/02	\$2,732,732

<b>Grant Number (Funded)</b>	<b>Grant Title</b>	<b>Role in Project and Percentage of Effort</b>	<b>Years Inclusive</b>	<b>Annual Direct Costs</b>
Department of Veterans Affairs	Ethnic Differences- Management of Patients with Ischemic Heart Disease	Co-Principal Investigator	7/1/99 to 6/30/03	\$791,800
Department of Veterans Affairs, VISN Collaborative Project	Computer-assisted Access to Specialist Expertise	Co-Investigator (Aron, PI)	2/1/00-1/31/02	\$600,000
Department of Veterans Affairs	Randomized Trial of a Telephone Intervention in Heart Failure Patients	Co-Investigator (Dunlap, PI)	3/1/00-2/28/03	\$750,000
Health Services Research & Development Service, Department of Veterans Affairs	Research Associate, Career Development Award	Primary Mentor (Ibrahim, PI)	7-1-00-6/30/03	\$450,000
RO1-NIA	Process of Self-Care: Comparison of African Americans and Whites	Co-Investigator (Silverman, PI)	7/01/00-6/30/04	\$371,975
American College of Rheumatology Research and Education Foundation	Clinical Investigator Fellowship Award	Primary Mentor (Wildy, PI)	7/01/01 – 4/30/04	\$121,675
American College of Rheumatology Research and Education Foundation	The Natural History of Physical Activity After Primary Total Knee Arthroplasty	Primary Mentor (Jones, PI)	7/01/02 – 6/30/04	\$100,000
1R21HD043202- 01 NIH	Rehabilitation for Stroke and Hip Fracture	Co-Investigator (Munin, PI)	9/26/02 – 8/31/04	\$298,094
K01-NINR	Mentored Research Scientist Development Award	Primary Mentor (Schlenk, PI)	9/01/02 – 8/31/05	\$210,734
1R21AG024288 NIA	Osteopuncture for OA- associated knee pain & disability	Co-Inv– 8% (Weiner, PI)	9/15/04-6/30/06	\$150,000
R01 AR050265 NIAMS	Ethnic differences in the management of osteoarthritis (Diversity Supplement)	Kwoh, PI (Tamara Baker and Alvin Jones)	7/1/2005- 6/30/07	\$38,500
R01 AR050265 NIAMS	Ethnic differences in the management of osteoarthritis (HABC)	Kwoh, PI	7/1/03 – 6/30/07	\$497,486
HSR&D Service, Department of Veterans Affairs	Advanced Research Associate, Career Development Award	Primary Mentor (Ibrahim, PI)	7-1-03-6/30/07	\$450,000

<b>Grant Number (Funded)</b>	<b>Grant Title</b>	<b>Role in Project and Percentage of Effort</b>	<b>Years Inclusive</b>	<b>Annual Direct Costs</b>
HSR&D Service, Department of Veterans Affairs	Center for Health Equity Research and Promotion, Chair, Intramural Research Subcommittee and Member of the Executive Committee	Member Executive Committee	7/01/01 – 6/30/07	\$500,000
TAP Pharmaceuticals	VA Gout Database Initiative (Gout)	Kwoh subcontract (Schumacher, PI)	7/1/2004- 6/30/07	\$34,800
Robert Wood Johnson Foundation	Harold Amos Minority Medical Faculty Development Program	Primary Mentor (Said Ibrahim, PI)	1/01/03 – 12/31/07	\$123,971
Centocor	The Use of Biological Disease- Modifying Anti-Arthritic Drugs (bDMARDs) in the VA Population	Kwoh subcontract (Kerr, PI)	7/1/2005- 6/30/2007	\$42,000
HSR&D Merit Review, IIR 05-281	Barriers to Initiating Antiviral Therapy for Veterans with Hepatitis C	Co-Inv (Susan Zickmund – PI) 0.6 VA CM	9/1/2006- 8/31/2010	\$225,751
HSR&D Merit Review IIR 05-234	Knee Replacement Disparity: A Randomized, Controlled Intervention (JOINT)	Co-Inv (Said Ibrahim – PI) 1.2 VA CM	9/1/2006- 8/31/2010	\$170,895
HSR&D Merit Review ECV 03-201	Reasons for disparities in joint replacement utilization (KHAPS)	Kwoh, PI 0.06 VA CM	10/1/2003 – 9/30/2007	\$957,290
Rehabilitation Institute of Chicago	Epidemiology of physical activity in persons with or at risk for knee OA	Subcontract (Semantik, PI) 0.48 CM	1/1/2009 – 6/30/2010	\$17,729
HSR&D Merit Review IIR 04-137	Joint Replacement Utilization Disparity: The Role of Communication (JRCOM)	Co-Inv (Said Ibrahim, PI) 0.53 VA CM	7/1/2005- 6/30/2008	\$324,192
American College of Radiology	A multi-center trial on MR image markers of knee articular cartilage damage in osteoarthritis (ACRIN)	PI 0.12 Pitt CM	11/1/2006- 12/31/2008	\$52,758
The Beverage Institute	The Effect of Glucosamine and Chondroitin on Joint Function and Quality of Life in Adults with Reduced Knee Function (JOG)	Co-Investigator (Jalcic, PI) 0.06 Pitt CM	11/30/2005- 12/31/2008	\$390,440
The Beverage Institute	JOG Skin Substudy	Co-Investigator (Jalcic, PI) 0.06 calendar months	1/1/2007- 12/31/2008	\$104,000
NIDA 1K23 DA016175- 01A	Treatment disparities/outcomes in HCV-HIV co-infection	Primary Mentor (Adeel Butt-PI)	2003-2008	\$628,422

Grant Number (Funded)	Grant Title	Role in Project and Percentage of Effort	Years Inclusive	Annual Direct Costs
R01 AR052918 Northwestern University - NIAMS	Thrust and meniscal lesions in knee OA in the OAI	Kwoh PI subcontract (Sharma, PI) 1.1 Pitt CM	8/22/2005- 7/31/2011 (NCE)	
R01AR052784 NIAMS	Enhanced Clinical Diagnosis of Early Osteoarthritis	Co-Inv (Constance Chu, PI) .6 Pitt CM	5/1/2006- 3/31/2011	\$250,000
Cooperative Studies Program CSP-551	Rheumatoid Arthritis: Comparison of Active Therapies in Patients with Active Disease Despite Methotrexate Therapy (RACAT)	Site PI 1.92 VA CM	2/01/2007 – 9/30/2011	\$133,857
R01AR054474 NIAMS	Race and preference for knee replacement: A patient-centered intervention	Co-Inv (Ibrahim, PI) .6 Pitt CM	2/1/2010 – 5/31/2012	\$17,323
R01AR054938-01 Tufts-New England Medical Center, NIAMS	Role of Bone in Knee Osteoarthritis Progression	Site PI (McAlindon, PI) .06 Pitt CM	6/1/2007- 6/31/2012	\$5566
R21AR056690 NIAMS	Use of thermal and 3D imaging to quantify arthritis	Co-Inv (Hirsch, PI) 0.42 Pitt CM	4/15/2009- 3/31/2012	\$117,923
Arthritis Foundation	Development and validation of a self-report knee OA risk assessment tool (AF Tool)	PI 0.12 CM	2/01/2008- 1/31/2010 (NCE)	\$147,161
D5220M00001 Astra Zeneca	A methodology study to assess whether MRI can be used to measure changes in cartilage thickness in patients with knee OA	Kwoh, PI 0.6 CM	7/1/07-	\$179,891
5R01AR054155 NIAMS	The effect of physical activity on disability progression in persons with or at risk for knee OA – Follow-up	Subcontract PI (Dunlop, PI) .12 CM	2/1/2011 – 1/31/2012	\$10,736
HSR&D Merit Review A6614R	Efficacy of periosteal stimulation & boosters for advanced knee OA pain	Co-Inv (Weiner, PI) 1.20 VA CM	7/1/2009- 6/30/2012	\$248,900

#### PATENTS, INVENTIONS AND COPYRIGHTS

7,519,210	Method of assessing localized shape and temperature of the human body (April 14, 2009) Hirsch R, Osborn J, Kwoh CK, Denes LJ, Huber D
7,702,140	Method of assessing a body part (April 20, 2010) Hirsch R, Osborn J, Kwoh CK, Denes LJ, Huber D
7,734,077	Method of assessing localized shape and temperature of the human body (June 8, 2010) Hirsch R, Osborn J, Kwoh CK, Denes LJ, Huber D



## PROFESSIONAL ACTIVITIES

### TEACHING

Years	Role	Course	Institution
1986 Spring	Discussion Group Leader	Biostatistics for Medical Students	Yale University School of Medicine
1986 Winter		Seminar on Observational Studies in EPH 500a: Principals of Epidemiology And Public Health	School of Epidemiology and Public Health, Yale University
1986-1994 Quarterly		“Rheumatoid Arthritis as a Systemic Disease” for orthopaedic residents Rheumatology fellows, family Practice residents, internal medicine Residents, psychiatry and medical students	Saint Margaret Memorial Hospital, Pittsburgh, PA
1987-1992	Lecturer for Medical students	Introduction to Clinical Medicine Course, Rheumatology-Immunology Block entitled, “Non-steroidal Anti- Inflammatory drugs (NSAID’S) “Disease Modifying Agents in Rheum- Atoid Arthritis and other Rheumatic Diseases,” and Rheumatoid Arthritis	University of Pittsburgh School of Medicine
1987-1992 (6 sessions/year)	Workshop Leader	Introduction to Clinical Medicine Course, Rheumatology-Immunology Block	University of Pittsburgh School of Medicine
1987-1994		“Epidemiology of Rheumatoid Arthritis” In: Epidemiology of Chronic Disease	University of Pittsburgh Graduate School of Public Health
1989-1994		“Epidemiology of Osteoarthritis” In Epidemiology of Aging	University of Pittsburgh Graduate School of Public Health
1991-1994 (5 times/year)		“Vasculitis” for medical residents And medical students	University of Pittsburgh School of Medicine
1992		“Epidemiology of Rheumatoid Arthritis,”Rheumatology fellows	University of Pittsburgh School of Medicine
1993	Faculty Facilitator	Problem Based Learning Cases in the Skin/Musculoskeletal Organ Block for first year medical students	University of Pittsburgh School of Medicine
1993-1994		“Introduction to Clinical Epidemiology” To Orthopaedic surgery residents, Basic Science Conference	
1993-1994		“Introductions to Outcomes Research To Orthopaedic surgery residents, Basic Science Conference	
1995-1999		“Rheumatoid Arthritis” Phase II Medical students	Case Western Reserve University School of Medicine
1995-1999		“Physical Examination of the Musculoskeletal System” Phase II Medical students	Case Western Reserve University School of Medicine

<b>Years</b>	<b>Role</b>	<b>Course</b>	<b>Institution</b>
1998	Co-Coordinator And Instructor	“Introduction of Clinical Research Curriculum”	
2001-2006		“Epidemiology of Osteoarthritis” In: Epidemiology of Aging	University of Pittsburgh Graduate School of Public Health
2001-2007		“Osteoarthritis” Medical Residents And Rheumatology Fellows	UPMC
2007-2008	Instructor and Small Group Leader	Clinical Research 2071/2072 Research Design Seminar	University of Pittsburgh
2008-2009	Instructor and Small Group Leader	Clinical Research 2071/2072 Research Design Seminar	University of Pittsburgh
January 2009	Lecturer	“Osteoarthritis” Musculoskeletal Immunology Course	University of Pittsburgh
April 2009	Lecturer	Musculoskeletal Mini Course Recording	University of Pittsburgh
May 2009	Lecturer	“Osteoarthritis” Mercy Hospital Resident Conference	Mercy Hospital Pittsburgh
August 2009	Leader	“Osteoarthritis” Grand Rounds, Division of Rheumatology	University of Pittsburgh
January 2010	Leader	Journal Club, Division of Rheumatology	University of Pittsburgh
February 2010	Lecturer	“Osteoarthritis” Musculoskeletal Immunology Course	University of Pittsburgh
October 2010	Lecturer	“Osteoarthritis” Division of Rheumatology Summer Didactic	University of Pittsburgh
December 2010	Instructor	Introduction to Physical Examination Course, Musculoskeletal Section	University of Pittsburgh
January 2011	Instructor	Immunology Course Patient Workshop	University of Pittsburgh School of Medicine
February 2011	Instructor	Immunology Course Patient Workshop	University of Pittsburgh
March 2011	Lecturer	“Osteoarthritis” Advanced Epidemiology of Aging (EPIDEM 2900)	University of Pittsburgh
April 2011	Instructor	Clinical Research 2200 Introduction To Research on Disparities in Health Care	University of Pittsburgh
April 2011	Leader	Journal Club, Division of Rheumatology	University of Pittsburgh