

CURRICULUM VITAE

Paul Gordon Shekelle

PERSONAL HISTORY

Business Addresses: West Los Angeles Veterans Affairs Medical Center
Department of Medicine, General Internal Medicine Section (111G)
11301 Wilshire Blvd
Los Angeles, CA 90073
Phone: (310) 478-3711 ext 48347

RAND
1776 Main Street
Santa Monica, CA 90407
Phone: (310) 393-0411 x6669

EDUCATION

B.S. University of Illinois, Urbana, Chemistry, Magna Cum Laude, May 1978
B.S. University of Illinois, Urbana, Biology, Magna Cum Laude, May, 1978
M.D. Duke University, Durham, May, 1982
M.P.H. University of California, Los Angeles, June, 1989
Internship: University of California, Los Angeles, June 1982 - June 1983
Residency: University of California, Los Angeles, July 1983 - June 1985
Fellowship: University of California, Los Angeles, July 1988 - June 1990
(Primary Care Research Fellowship)
Ph.D. University of California, School of Public Health, Department of Health Services
December 1993

LICENSURE

National Board of Medical Examiners Parts I, II, and III
Medical License: California G51117

BOARD CERTIFICATION

Diplomate, American Board of Internal Medicine, 1985

PROFESSIONAL EXPERIENCE

Director, Quality Assessment and Improvement Program, RAND Health, October 2006 –
September 2013
Assistant Professor of Medicine, UCLA, 1992-1999
Associate Professor of Medicine, UCLA, July 1999-July 2002
Professor of Medicine, UCLA Department of Medicine, 2002-present
Director, Southern California Evidence-Based Practice Center, 1997-2019
Research Associate, Department of Veterans Affairs, 1995-2000
Staff Physician, West LA VAMC, 1990-present
Staff Researcher, Western Region Special Studies Group, 1990-1996

Consultant, Health Sciences Program, RAND, 1990-present
Chief, General Internal Medicine, VAMC West Los Angeles 1999-Present

PROFESSIONAL ACTIVITIES

Core faculty, UCLA Primary Care Research Fellowship (a combination of two fellowship programs, the HRSA program at UCLA/CHS and the VA Ambulatory Care Fellowship at West LA VAMC), 1990-present

Methodologist, Agency for Health Care Policy and Research Low-Back Guidelines Panel, 1991-1993

West LA VAMC General Medical Clinic Firm Co-Director, 1992-1995

Invited Faculty, American Academy of Orthopedic Association Course "The Practitioner's Role: Treating, Reporting, and Evaluating the Industrial Back Patient" Seattle, October 29-31, 1992

UCLA Medical School Doctoring I tutor, 1993-1994

UCLA Medical School Clinical Epidemiology Course Committee Member 1993, 1994

UCLA Medical School Clinical Epidemiology Instructor 1993

Faculty, Robert Wood Johnson Clinical Scholars Program, UCLA 1993-2012

Associate Director, Robert Wood Johnson Clinical Scholar Program, ULA, 1999-2004

Invited Faculty, First *Spine* Focus Group on Clinical Outcomes, Chicago, January 21-23, 1994

Invited Faculty, International Forum for Primary Care Research on Low Back Pain, Seattle, Oct 13-14, 1995.

Invited Faculty, "New Horizons in Low Back Pain", NIH Workshop to set the research agenda in low back pain for the next 5 years, San Diego, Nov1-5, 1995.

Invited Participant, US Health Resources Services Administration conference on "Establishing a research agenda for chiropractic", July 12-14, 1996, Alexandria, Virginia

Editorial Board, Back Review Group, the Cochrane Collaboration, 1996-2010

Executive Committee, UCLA Scientific Training and Research Program, 1995-1996

Atlantic Fellow in Public Policy, based at the National Primary Care Research and Development Centre, Manchester, England, 1996-97.

Invited participant, King's Fund Colloquium on "Will the profession survive?", September 12, 1996, King's Fund, London, England.

Invited faculty, British Medical Association conference on "Clinical guidelines: uses and abuses", November 20, 1996, London, England.

Invited faculty, Royal College of General Practitioners, “Guidelines methodology workshop”, January 10, 1997, London, England.

Invited faculty, The University of York and the National Health Service Centre for Reviews and Dissemination, “From Research Evidence to Recommendations: Exploring the Methods”, February 17-18, 1997, Harrogate.

Invited faculty, Second International Forum on Primary Care Research on Low Back Pain, May 30-31, 1997, the Hague, the Netherlands.

Member, California Hospital Outcomes Project Hip Fracture Clinical Advisory Committee, 1996-1998.

Invited faculty, Healthcare Continuing Education Division, University of California, San Diego, California, 1998-2003

Member, Special Review Committee, National Institute of Arthritis and Musculoskeletal and Skin Diseases, 1998

Invited faculty, Third International Forum on Primary Care Research on Low Back Pain, October 2-3, 1998, Manchester, England

Member, Special Emphasis Panel, National Institute of Dental Research, 1998-1999

Member, Institute of Medicine Expert Panel on “Capitalizing on Social and Behavioral Research to Improve the Public’s Health,” 1999-2000

Member, University of Ottawa Physical Therapy Panel on physical therapy for back, neck shoulder and knee pain, Dec. 17, 1999

Invited faculty, Fourth International Forum on Primary Care Research on Low Back Pain, Eilat, Israel, March 15-18, 2000

UCLA School of Public Health, Literature Review and Synthesis Instructor, PH237a, 2000-2012

Reviewer, Association for Health Service Research Annual Meeting, 2001

Reviewer, Technology Assessment Reviews, National Health Service Research and Development Directorate, Great Britain, 2001

Reviewer, Consortium Center for Chiropractic Research, 2001

Panel Member, National Institute of Arthritis, Musculoskeletal and Skin Diseases Application Review Panel, National Institute of Health, 2001

Panel Member, Center for Medicare and Medicaid Services, Defining Aggregate Measure for the Quality of Diabetes Care and Later Chronic Disease Care, January 23, 2002

Member, Department of Medicine Clinical Faculty Review Committee, UCLA School of Medicine, January 2002

Member, Special Emphasis Panel, Agency for Healthcare Research and Quality, July 2002

Invited Participant, Workshop on “The use of data to improve quality in general practice,” Nuffield Trust, May 2003

Invited Participant, “Heart failure summit,” Stanford University, May 5-6, 2003

Chair, Committee on Arrangement, Robert Wood Johnson Clinical Scholars Annual Meeting, November, 2003

Co-Chair, UK-VA collaboration on implementing guidelines, London, September, 2003

Member, VA National Chiropractic Advisory Committee, 2002 – 2004

Member, VA National QUERI Research and Methodology Committee, 2002 - 2010

Member, Guidelines International Network Advisory Committee (Germany), May, 2004 - 2006

Chair, Search Committee, Greater Los Angeles VA Healthcare System Chair of Department of Medicine, February 2005-September 2005

Member, VA Career Development Award Review Committee, 2005-2014

Member, American College of Physicians, Clinical Guideline Committee, June 2005-June 2013

Associate Editor, ACP Journal Club, January 2006-Present

Member, VA Performance Measures Workgroup, Methods Sub-committee, January 2006-2010

Site visit reviewer, Arthritis Research Campaign (arc), tender for a primary care low back pain center, England, January 2008

Member, Academic Health Science Center Review Panel, United Kingdom Department of Health, London, March 2-4, 2009

Chair, Glaser Award Selection Committee, Society of General Internal Medicine, 2009 (Highest award of the Society)

Chair, Greater Los Angeles VA Institutional Review Board, 2010-present

Chair, AcademyHealth Annual Research Meeting Abstract Committee, 2010

Member, Search Committee, Greater Los Angeles VA Healthcare System Chair of Department of Medicine, April 2010-June 2010

Member, Center for Scientific Review Special Emphasis Panel for Comparative Effectiveness Research on GERD, MRSA, and Dementia, July 2010

Chairperson, VA Career Development Award Review Committee, 2010- 2014

Chair, American College of Physicians Clinical Guidelines Committee, 2010- 2014

Recipient, 2011 Under Secretary's Award in Health Services Research

Chair, Scientific Committee Guidelines International Network Annual Meeting 2013

Editor, *Systematic Reviews*, 2012-2020

Treatment Options for Back Pain. Workgroup Meeting, March 21, 2013. PCORI. Washington DC.

Member, Veterans Affairs National Data Safety and Monitoring Board, 2013-present

Chair, Veterans Affairs National Data Safety and Monitoring Board, 2016-present

Thomson Reuters Highly Cited Researchers in Clinical Medicine 2014

Duke University Medical Alumnus of the Year, 2014

Invited Member and Presentation: "WHO Global Report on Safety and Quality of Health Care Services", Advisory Committee for World Health Organization, Geneva, Switzerland, April 7, 2014

International Advisory Committee, West Midlands Collaboration for Leadership in Applied Health Research and Care (CLAHRC), Birmingham, England, May 18-19 2014

Invited participant, EQUATOR Working Meeting: Consolidating methods for the development of reporting guidelines, Oxford, November 18-20 2014

Member, International Advisory Committee, Leeds, England, Feb 10-11 2015

Thomson Reuters Highly Cited Researchers in Clinical Medicine 2015

Member, International Advisory Committee, West Midlands CLAHRC, Birmingham, England, June 9-11, 2015,

Invited participant, Guidelines International Network meeting, Amsterdam, Netherlands, November 8-10, 2015

Invited member, World Health Organization, "Patient Safety", Geneva Switzerland, Nov 17-18 2015

Clarivate Highly Cited Researchers in Clinical Medicine 2016

International Advisory Committee, West Midlands CLAHRC, Birmingham, England, June 7-10, 2016

Chair, Veterans Affairs National Data Safety and Monitoring Board 2016-Present

Member, Performance Measurement Committee, American College of Physicians, 2016-Present

Co-chair, Editorial Board for the National Guidelines Clearinghouse, 2009-2018

Member, The Committee on Reproductive Health Services: Assessing the Safety and Quality of Abortion Care, The National Academies of Sciences, Engineering, and Medicine, 2017–2018
Present

Member, The Committee on Evidence-Based Practices for Public Health Emergency Preparedness and Response, The National Academies of Sciences, Engineering, and Medicine, 2018 – Present

Clarivate Highly Cited Researchers in Clinical Medicine 2018

Member, Veterans Response to Dosage in Chiropractic Therapy (VERDICT) Steering Committee, December 2018-Present

Member, PCORI OPTIMIZE Treatment for Chronic Back Pain, January 2019-Present

Member, International Advisory Committee, West Midlands CLAHRC, Birmingham, England, June 4-5, 2019

Member, International Advisory Committee, West Midlands CLAHRC, Birmingham, England, February 4-5, 2020

RESEARCH GRANTS

"Utilization of Chiropractic Services/RAND Health Insurance Experiment"; California Chiropractic Foundation, \$56,658, 1/1/89 - 9/30/91.
Principal Investigator

"A Nationally Representative Study of the Use of Chiropractic Services"; Foundation for Chiropractic Education and Research, C36474, \$812,522 7/1/90 - 3/31/95.
Principal Investigator

"Chiropractic: Use, Costs, and Effectiveness"; Agency for Health Care Policy and Research, 1 RO3 HSO6920-01 \$21,600, 9/30/91-3/31/93.
Principal Investigator

"Do Medical Practice Guidelines Improve the Practice of Medicine?" VA Health Services Research and Development, IIR - #91-035.A \$327,332, 10/1/91 - 9/30/95.
Principal Investigator

"Using the Appropriateness Method in Clinical Practice Guideline Development" Agency for Health Care Policy And Research subcontract, \$15,377, 11/6/92-4/30/93
Principal Investigator

"Assessing Appropriateness by Expert Panels: How Reliable?" Agency for Health Care Policy and Research, 1 RO1 HSO7185, \$559,471, 9/1/93-8/31/96
Principal Investigator

"Center for the Study of Clinical Decision Making and Provider Behavior" VA HSR&D Field Program, \$1,600,000, 10/1/93-present
Co-investigator; West LA VAMC Director

Research Associate/Career Development Award VA HSR&D Service, \$483,000, 1/1/95-12/31/97

"Analysis of the Process of Care of Rheumatoid Arthritis Utilizing Claims Data" P60AR36834, \$70,000 NIH/NIAMS UCLA Multipurpose Arthritis and Musculoskeletal Diseases Center, 9/1/95-8/31/97
Principal Investigator

"Coronary Artery Disease in Primary Care" Janice Barnhart, Principal Investigator, \$135,000, American Heart Association/NYC, 7/1/96-6/30/98.
Co-investigator

"Southern California Evidence-Based Practice Center" Master contract, Agency for Health Care Policy and Research, 8/1/97-7/31/03, Director (Principal Investigator)

"Meta-analysis of nonsteroidal associated gastropathy," \$315,000, 9/1/97-4/30/99

"Prevention and management of urinary tract infections in paralyzed persons," (Barbara Vickrey, Task Order Director) \$250,000, 9/30/97-8/31/98

"Evidence-based guidelines for nutrition and renal disease," \$325,000, 2/1/98-6/30/99

"Management of Acute Otitis Media", (Michael Marcy, Task Order Director) \$222,000, 10/1/98-9/30/99

"Prevention of Deep Venous Thrombosis", (George Velmahos, Task Order Director) \$228,000, 10/1/98-9/30/99

"Effect of Disease Modifying Agents on Radiographic Progression in Rheumatoid Arthritis" (Catherine MacLean, Task Order Director), \$125,000, 10/1/98-4/30/99

"Technical Support to the National Complementary and Alternative Medicine Center", (Ian Coulter, Task Order Director) \$1,500,000, 7/99-6/02

"Management of Otitis Media with Effusion", (Glenn Takata, Task Order Director) \$250,000, 10/99-9/00

"Developing Criteria for When to Withdraw Clinical Guidelines", \$73,000, 9/30/99 - 4/3/2000

"Diagnosis and Treatment of Congestive Heart Failure", \$250,000, 8/01/00 - 1/31/02

“Study: Physician Service Utilization”, \$299,486, 09/29/00 - 12/29/01

"Ephedra: Clinical Efficacy and Side Effects", \$733,642, 06/30/01 - 6/30/02

6,434,088

“Assessing Care for the Vulnerable Elderly”, Pfizer Inc. \$5,000,000, 11/1/97-10/31/00,
Co-Principal Investigator; Neil Wenger, Co-Principal Investigator

"Quality Tools", VA Health Services Research and Development, \$728,000, 01/01/98-01/01/03
Co Investigator, Steven Asch, Principal Investigator

Research Associate/Career Development Award VA HSR&D Service, \$483,000, 1/1/98-
12/31/00

“Healthy Aging”, HCFA 500-98-0281, Health Care Financing Administration, \$3,700,000,
10/1/98-9/30/03, Co-Principal Investigator; Laurence Rubenstein, Principal Investigator

“Nuffield Trust/RAND Collaboration”, \$523,760, 1/1/99 - 3/31/02

“Health Status and Medical Treatment of the Future Elderly: Implications for Medicare Program
Expenditures,” HCFA 500-95-0056, Health Care Financing Administration, \$1,260,259,
6/15/99-5/31/01, Co-Investigator, Dana Goldman, Principal Investigator

"Health Outcomes of Opioid Therapy for Chronic Pain", VA Health Services Research and
Development, \$549,5000, 10/01/00-9/30/04, Co-Investigator, Bruce Naliboff, Principal
Investigator

"ACOVE II", Pfizer Inc. \$5,600,000, 2/28/01-12/30/03. Co-Principal Investigator; Neil Wenger,
Co-Principal Investigator

"Women Veterans Ambulatory Care Use: Patterns, Behaviors and Influences", \$748,000,
10/01/01-9/30/04. Co-Principal Investigator; Donna Washington, Principal Investigator

“Southern California Evidence-Based Practice Center” Master contract, Agency for Healthcare
Research and Quality, \$1,400,000 plus additional funding per RFTO, 9/20/02-9/19/07, Director
(Principal Investigator)

“Pharmacological Treatment of Obesity” \$578,190, 9/20/02 - 9/19/04

“Health Benefits of Omega-3 Fatty Acids” \$375,591, 11/15/02 - 5/17/05

“Preventing Violence and Related Health-Risking Social Behaviors in Adolescents”
\$185,190, 2/3/03 – 12/31/04, (Michele Kipke, Task Order Director)

“Electronic Health Information Technology Systems: Costs and Benefits” \$578,000,
10/15/03 – 12/31/04

“End of Life Care and Outcomes” \$250,000, 3/3/04 - 2/22/05

“Cancer Care Quality Measures” \$275,000, 11/29/04 – 12/30/05

“Atypical Antipsychotic Drug Review” \$288,000, 9/30/04 – 12/31/05

“Antiretroviral Drug Resistance Review” \$267,490, 10/28/05 – 12/31/06

“Low Bone Density Drug Review” \$280,000, 9/15/05-9/14/06 (Catherine MacLean, Task Order Director)

“Bariatric Surgery in Women of Reproductive Age” \$165,169, 10/30/06-3/15/2008

24,500,478

“Report Cards of Primary Care Providers: What Factors Affect Selection of a Provider” California HealthCare Foundation, \$280,844, 9/1/02-8/31/03

“Updating and Expanding the ACOVE Measurement System” Pfizer Pharmaceuticals \$3,500,000, 7/1/04 - 8/30/06

“Identifying, Categorizing, and Evaluating Healthcare Efficiency Measures” \$300,000, 09/21/05-10/19/06

“Randomized Controlled Trial of Mind Body Breathing Therapy for COPD” VA \$175,000, 10/01/05-9/30/06

“Evidence-based Synthesis Program” VA QUERI \$225,000 renewed annually, 9/30/05 – 9/30/21, Director of West Los Angeles site

“Acute Stroke Guidelines”

“Depression: Elements of Care Management”

“Efficacy of Self-Monitoring of Blood Glucose in Patients with Type 2 Diabetes Mellitus not Taking Insulin”

“Screening and Diagnosis for Osteoporosis in Men”

“The Current State of Genomics Health Services”

“Using Information Technology to Implement and Evaluate the Contribution of Nursing Interventions to Improve the Quality of Care for OEF/OIF Veterans”

“Suicide Prevention Strategies”

“Women Veterans Health Services Research”

“Comparison of Quality of Care between VA and Non-VA Health Care”

“Mental Health Issues of Post-Deployment Women Veterans”

“Joint Replacement Disparities in VA and Non-VA Health Care”

“Consumer Health IT”

“Maintaining Research Integrity”

“Treatment for Stage IV Lung Cancer”

“Prevention of Never Events”

“Acupuncture”

“Tai Chi”

“Mindfulness”

“Inappropriate Use of Radiologic Imaging”

“Psychiatric Screening for Bariatric Surgery”

“Spinal Manipulative Therapy for Acute Low Back Pain”

“Risk Factors for Multiple Sclerosis Progression”

“Use of Antiplatelet Agents in Patients Receiving Coronary Stents”

“Use of Antiplatelet Agents in Patients Receiving Peripheral Vascular Stents”

“Rural Health”

“Strategies for Primary Care Access Management”

“Cranial Electrical Stimulation for Anxiety, Depression, Pain, and Insomnia”

“Intraocular Lens Implantation Following Cataract Surgery”

“Emergency Room Efficiency Interventions”

“Art therapy for patients with PTSD”

“Surgery versus stenting for clinical limb ischemia”

“Robotic-assisted Surgery in Partial Nephrectomy and Cystectomy”

“Scaling beyond early adopters”

“What is the Optimal Panel Size in Primary Care?”

“One to One Observation”

“Robotic-assisted Procedures in General Surgery”

“Developing Culture of Innovation”

“Southern California Evidence-Based Practice Center” Master contract, Agency for Healthcare Research and Quality, \$1,400,000 plus additional funding per RFTO, 8/1/07-9/31/12, Director (Principal Investigator)

“Updating Comparative Effectiveness Reviews” \$600,000

“Diagnosis and Treatment of Acute Otitis Media” \$275,000

“EPC Methods Projects with Other EPCs I & II” \$100,000 (combined)

“Safety of Probiotics” \$350,000

“Low Bone Density Comparative Effectiveness Review Update” \$450,000

“Off-Label Uses of Atypical Antipsychotics Comparative Effectiveness Review Update” \$450,000

“Bariatric Surgery for Metabolic Conditions” \$575,000

“Methods for Updating Systematic Reviews” \$700,000

“Comparison of Methods to Identify Signals for Updating” \$180,000

“RCT Quality Criteria Methods Phase III” \$180,000

“Critical Analysis of the Evidence for Patient Safety Practices” Agency for Healthcare Research and Quality \$1,000,000 9/30/10-10/31/11 (Principal Investigator)

“Surveillance and Identification of Triggers in Updating Systematic Reviews for the EHC Program” Agency for Healthcare Research and Quality \$900,000

“Assessing the accuracy of Google Translate for Systematic Review” Agency for Healthcare Research and Quality \$35,177

“Machine learning Methods in Systematic Reviews” Agency for Healthcare Research and Quality \$108,552

“USAID Strength of Evidence” Agency for Healthcare Research and Quality \$172,160

40,332,211

“Food Allergy” National Institute for Allergy/Infectious Disease, \$353,675 9/26/08-9/25/11

“Advancing the science of quality improvement research and evaluation”. Robert Wood Johnson Foundation Grant \$221,000 1/15/08 – 1/14/09 (Co-Principal Investigator)

“Patient Safety Practices”—Developing Criteria for Context Sensitive Patient Safety Practices— Agency for Healthcare Research and Quality \$1,000,000 1/8/09 – 1/18/10 (Principal Investigator)

“Updating & Expanding Systematic Reviews of Health Information Technology Literature”- Department of Health and Human Services-Office of the National Coordinator. \$277,044 9/30/11- 9/29/12

“Southern California Evidence-Based Practice Center IV “Master contract, Agency for Health Research and Quality, 09/12-12/14, Director (Principal Investigator)

“Vitamin D & Calcium Update-Systematic Review”: 3/15/13-3/14/14 \$350,000

“Diagnosis and Management of Gout-Topic Refinement; Medium Systematic Review; Large Systematic Review”: 9/9/13-5/31/16 \$850,000

“Testing of Celiac Disease-Topic Refinement; Small Systematic Review”: 9/9/13-7/15/15 \$350,000

“Effectiveness of Hyaluronic Acid in the treatment of severe Degenerative Joint Disease (DJD) of the knee”: 9/12/13-8/11/14, \$225,000

“Effects of Omega-3 Fatty Acids on Child and Maternal Health”: 8/1/2014-12/1/2015 \$500,000

44237930

“Partnership for Research & Dissemination of Evidence-Based Medicine in Autism”. University of Southern California: \$149,113 3/01/13-02/28/2016

“When is Quality Improvement Cost Saving, Cost Effective, or Not a Good Value?”. RAND PI: Paul Shekelle; Cedars-Sinai PI: Teryl Nuckols; Prime: AHRQ. Subcontract with Cedars-Sinai: \$500,000 3/1/13-2/1/16

“Southern California Evidence-Based Practice Center V “Master contract, Agency for Health Research and Quality, 12/1/14-11/30/19, co-Director

“Patient Safety Practices in Ambulatory Settings”: 5/11/15-1/18/16 \$225,000

“Treatment of Primary and Secondary Osteoarthritis of the Knee-Surveillance and Medium Systematic Review”: 6/8/15-8/15/16 \$380,000

“2018 National Impact Assessment”. Prime Client: Centers for Medicare and Medicaid Services. Subcontract with Health Services Advisory Group. PI: Cheryl Damberg; 8/01/2014-6/30/2016 \$1,090,254

“Understanding Health Care Delivery Systems PCOR Adoption and System Performance”. AHRQ. PI: Cheryl Damberg; 9/1/2015-8/31/2020, \$17,500,000 (\$3,500,000 per year)

“Study of Appropriateness”. National Center for Complementary and Alternative Medicine. PI: Ian Coulter; 9/30/13-12/31/18 \$6,639,481

“Understanding and Modeling Innovation in Alzheimer's Disease”. Subcontract under USC. Prime funder: National Institute of Health. Prime PI: Dana Goldman. RAND PI: Paul Shekelle 9/30/2016-8/31/2018 \$123,192

“Lumbar Spine Care Appropriateness Panel”. Hospital for Special Surgery. \$200,000. PI: Paul Shekelle 12/1/2016-11/30/2019

“Effectiveness of therapeutics and health care service use in reduction of health disparities”. Subcontract under USC. Prime funder: National Institute of Health. Prime PI: Julie Zissimopoulos RAND PI: Paul Shekelle 9/30/2017-5/31/2020 \$81,120 (Y1), \$78,440 (Y2)

“Current Topics in Alzheimer’s Disease and its Related Dementias”. Subcontract under USC. Prime funder: National Institute of Health. Prime PI: Dana Goldman RAND PI: Paul Shekelle 2/1/2019-8/31/2022 \$187,000

“Systematic Review of Social Determinants of Health”. Humana. PI: Paul Shekelle. 1/01/2020-6/30/2021 \$600,000

as PI or co PI (does not count any that are PI by someone else) \$45,792,043

LECTURES AND PRESENTATIONS

Invited Presentation: "Approaches to the Development of Standards of Care" First Consensus Conference on the Validation of Chiropractic Techniques, Seattle, February 3, 1990

Invited Presentation: "Approaches to the Development of Standards of Care in Chiropractic" International Conference on Spinal Manipulation, Washington DC, May 12, 1990

Invited Presentation: "Chiropractic Health Services Research" American Chiropractic Association National meeting, Anchorage, June 2, 1990

Invited Presentation: "Trends and Implications of Current Chiropractic Research" Congress of State Chiropractic Associations National Meeting, San Antonio, December 14, 1990

Invited Presentation: "Indications and Results of Manipulative Treatment for Low-Back Pain" American Academy of Orthopedic Surgeons Annual Meeting, Anaheim, March 9, 1991

Invited Presentation: "Appropriateness of Spinal Manipulation" American Back Society Annual Meeting, San Francisco, December 13, 1991

Invited Presentation: "New Developments in Practice Guidelines" Cedars-Sinai Health Services Research Conference, Los Angeles, January 8, 1992

Invited Presentation: "The Use of Spinal Manipulation for Low Back Pain" California State University Northridge Sports Medicine Continuing Education Program, Northridge, March 21, 1992

Invited Presentation: "Medical Technology - Where is it Going?" Society of Actuaries Annual Meeting, Las Vegas, April 7, 1992

Invited Presentation: "Low-Back Pain", West LA VAMC Medical Grand Rounds, Los Angeles, April 14, 1992

Invited Presentation: "Chiropractic Health Services Research" National College of Chiropractic July 31, 1992

Invited Presentation: "Quality of Care Measurement in Clinical Practice", Southern California Renal Disease Annual Meeting Council, Irvine, October 16, 1992

Invited Presentation: "Clinical Practice Guidelines and the Physician - Prospects for the Future" Cedars-Sinai Health Care Delivery Grand Rounds, Los Angeles, November 25, 1992

Invited Presentation: "Practice Guidelines: Issues in Development with Respect to Asthma", American Academy of Allergy and Immunology Annual Meeting, Chicago, March 15, 1993

Invited Presentation: "The Use of Chiropractic Care in the United States", Western Australia Chiropractic Registration Board, Perth, Australia, March 21, 1993

Invited Presentation: "The Appropriateness of Spinal Manipulation", Chiropractor's Association of Australia, Sydney, Australia, March 26, 1993

Invited Presentation: "Update on Chiropractic Health Services in the United States", Chiropractor's Association of Australia, Melbourne, Australia March 27, 1993

Invited Presentation: "Chiropractic Health Services Research: What Do We Know, Where Are We Going?" American Chiropractic Association Annual Meeting, Wailea, July 23, 1993

Invited Presentation: "Consensus or Meta-Analysis: Which is Best for the Back Pain Patient?" Swedish Orthopedic Association Post Graduate Meeting, Gothenburg, Sweden, October 20, 1993

Invited Presentation: "The Appropriateness of Spinal Manipulation for Low-Back Pain", Interscandinavian Chiropractic Congress, Gothenburg, Sweden, October 23, 1993

Invited Presentation: "Complementary Methods for Estimating Practice Parameters", American Public Health Association Annual Meeting, San Francisco, October 26, 1993

Invited Presentation: "The Role of Practice Outcome Information in Managed Care Decision Making", Texas Back Institute Back Solution Seminar, Dallas, December 6, 1993

Invited Presentation: "Creating Practice Guidelines: Controversy About Method and Justification", Third Annual Frontiers of Healthcare Ethics Conference, Marina del Rey, April 11, 1994.

Invited Presentation: "Spinal Manipulation for Low-Back Pain", Third Annual Workers Compensation Defense and Occupational Medicine Seminar, San Francisco, March 18, 1994.

- Invited Presentation: "Chiropractic use in the work place", American Occupational Health Conference, Chicago, April 19, 1994.
- Invited Presentation: "A Critique of Methods used to Develop Clinical Practice Guidelines", Association for Health Services Research Annual Meeting, San Diego, June 12, 1994.
- Invited Presentation: "Application of Clinical Pathways" California Medical Association Medical Staff Leadership Conference, San Francisco, October 14, 1994.
- Invited Presentation: "Outcome Measurement: A Dynamic New Direction" California Medical Association Medical Staff Leadership Conference, San Francisco, October 15, 1994.
- Invited Presentation: "What the Scientific Literature tells us about the use of Spinal Manipulation for Low-Back Pain, Neck Pain, and Headache" The Great Chiropractic Debate, Sydney, Australia, December 3, 1994.
- Invited Presentation: "The AHCPR Low Back Pain Clinical Guidelines", UCLA Rheumatology Grand Rounds, Los Angeles, March 6, 1995.
- Invited Presentation: "Spinal Manipulation for Low-Back Pain and Cervical Complaints" Alternative Medicine: Implication for Clinical Practice, Boston, March 30, 1995
- Invited Presentation: "The Role of Chiropractic in a Health Care System", Interscandinavian Chiropractic Association Annual Meeting, Copenhagen, Denmark, April 29, 1995.
- Invited Presentation: "Is Spinal Manipulation Efficacious Therapy" American Pain Society Annual Meeting, Los Angeles, Nov 10, 1995
- Invited Presentation: "A Critical Examination of the Scientific Literature for Spinal Manipulation for Low Back Pain, Neck Pain, and Headache" International Federation of Manipulating Physiotherapists Meeting, Lillehammer, Norway, April 22, 1996
- Invited Presentation: "Scientific Evidence in Spine Care" Wisconsin Back Society Annual Meeting, Madison, May 16, 1996.
- Invited Presentation: "The Role of Scientific Evidence and Consensus in Health Policy" Annual CCR Conference on Research and Education, San Diego, June 14, 1996.
- Invited Presentation: "The scientific evidence for the effectiveness and cost-effectiveness of chiropractic care" National Managed Care Congress, San Diego, CA, July 22, 1996
- Invited Presentation: "Where is Musculoskeletal Research going in the 21st Century", 83rd Annual Founder's Day Lecture, Los Angeles College of Chiropractic, Whittier CA, October 2, 1997.
- Invited Presentation: "The 20th Century Epidemic of Back Pain Disability: How did we get there and what can we do about it?" West Virginia University, November 6, 1997.
- Invited Presentation: "Scientific Underpinnings of Clinical Practice Guidelines," Pharmaceutical Partners for Better Health, Marlow, England, December 2, 1997

Invited Presentation: "Update on Low Back Pain," The Year in Internal Medicine, Northwestern University, Chicago, Illinois, January 21, 1998

Invited Presentation: "What Does Epidemiology Have to Offer the Clinician Treating Musculoskeletal Patients?" the 12th International Congress of FIMM, Brisbane, Australia, April 16, 1998

Invited Presentation: "Clinical Practice Guidelines," Improving Care for Older Persons with Chronic Disease, Southern California System of Clinics GRECC, Los Angeles, California, May 12, 1998

Invited Presentation: "Epidemiology of Chronic Low Back Pain," Third International Forum for Primary Care Research into Lower Back Pain, Manchester, England, October 2, 1998

Invited Presentation: "Exploring Outcomes in Low Back Pain," National Jewish Medical and Research Center, Vail, Colorado, April 15, 1999

Invited Presentation: "Meta-analysis of Manual Therapy for Neck Pain and Headache," European Chiropractors Annual Meeting, Odense, Denmark, May 14, 1999

Invited Participant: "Quality of Health Care in the U.S. and the U.K.," Ditchley, Oxfordshire, U.K., May 21-23, 1999

Invited Presentation: "Improving Flu Vaccinations in Older Adults," National Adult Immunization Conference, Dallas, Texas, June 21-22, 1999

Invited Presentation: "Meta-analysis of Improving Flu Vaccinations in Older Adults," Community Preventive Services Task Force, Centers for Disease Control, Atlanta, Georgia, June 22, 1999

Board Briefing: "Chiropractic: Quack or Cure?" Board of Directors Meeting, RAND, Santa Monica, California, November 11, 1999

Invited Presentation: "Evidence-Based Medicine - New Paradigm of Practice or Academic Jobs Program," Medical Grand Rounds University of California, Los Angeles, February 23, 2000

Invited Presentation: "Evidence-Based Medicine: Applications to Musculoskeletal Conditions," Evidence-Based Practice in the 21st Century: Application to the Low Back Pain Patient, Denver, Colorado, April 15, 2000

Invited Presentation: "Evidence-Based Medicine - New Paradigm of Practice or Academic Jobs Program," Medical Grand Rounds Harbor-UCLA Medical Center, Torrance, CA, September 5, 2000

Invited Presentation: "Improving the Health of Older People," UCLA School of Medicine, Los Angeles, CA, April 6, 2001

Invited Presentation: "Maintaining the Health of Older People," SHEPS Center, University of North Carolina, Chapel Hill, NC, April 20, 2001

Invited Participant: RAND-Ditchley-California HealthCare Foundation-Nuffield Trust
"Conference on Systems Design for Quality Health Care: A Future Perspective," Santa Monica, CA, May 10-12, 2001

Invited Participant: "Institutional Ethics Assessment Task Force", National Center for Ethics of the Veterans Health Administration, New York, NY, June 7-8, 2001

Invited Presentation: "Complementary and Alternative Medicine," VA Ambulatory Care Conference, San Diego, CA, August 30, 2001

Invited Presentation: "Evidence-Based Medicine - New Paradigm of Practice or Academic Jobs Program," American College of Rheumatology Annual Meeting, Clinical Epidemiology Study Group, San Francisco, CA, November 14, 2001

Invited Presentation: "Chronic Disease Self-Management for Diabetes, Osteoarthritis, Post-Myocardial Infarction Care, and Hypertension," Center for the Advancement of Health, Identifying the Essential Elements of Self-management Interventions, December 14, 2001

Invited Presentation: "CDSM: Can We Use Meta-regression Analysis to Assess Effectiveness of Intervention Components and Plan Future Research?" Congress on Improving Chronic Illness Care, Robert Wood Johnson Foundation and Group Health Cooperative, Seattle Washington, September 9, 2002

Invited Presentation: "Guidelines and Quality Indicators," New Research and Treatments for Dementia over the Continuum of Care, VA Greater Los Angeles Healthcare System, September 11, 2002

Board Briefing: "What Should We Do about Ephedra?" Board of Directors Meeting, RAND, Santa Monica, California, October 23, 2002

Invited Presentation: "Reporting on Quality: For Benchmarking, Purchasing, Improving Performance and Patient Decision-Making," Pennyhill Park Conference Centre, Basset, England, July 12-14, 2002

Invited Presentation. "Caring for the Vulnerable Elderly." ACP-ASIM, San Diego, CA, April 5, 2003.

Invited Presentation: "Quality Assessment and Improvement in America," Nuffield Trust, London, May 14, 2003

Invited Presentation: "Ephedra" Translating Research into Practice Meeting, Washington, DC, July 13, 2004

Invited Presentation: “Clinical Practice Guidelines and Quality Indicators” Evidence-based decision-making for health policy leaders workshop (Sponsored by AHRQ User Liaison Program and Agency Medical Director's Group), Tacoma, WA, December 7, 2004

Invited Presentation: “Lessons from Evidence-Based Medicine: A Case Study” Use of Evidence for Social Policy Decision Making Meeting (The National Academies), Irvine, CA, April 2, 2005

Invited Presentation: “Relationship between Quality Criteria and Bias in Back Pain Trials” Primary Care Research on Low Back Pain (Amsterdam International Forum), Amsterdam, Netherlands, June 8, 2006

Invited Presentation: “A Typology of Efficiency in Health Care: Implications for Measurement” Washington State Conference on Quality-Based Health Care Purchasing, Seattle, Washington, December 4, 2006

Invited Presentation: “Health Information Technology: Will it Improve Quality and Reduce Cost?” 15th Annual Conference of the Japanese Society of General Medicine, Kanazawa, Ishikawa, Japan, March 17-18, 2007

Invited Presentation: “Health Information Technology Report: Costs and Benefits” The Health Foundation, London UK, January 18, 2008

Invited Presentation: “Health Information Technology: Will It Improve Quality and Reduce Cost?” The 15th Princeton Conference of the Council on Health Care Economics and Policy, Princeton, NJ May 28, 2008

Invited Presentation: “Delivery of Genomic Medicine for Common Chronic Adult Diseases: A Systematic Literature Review” Academy of Health Annual Research Meeting, Washington DC, June 9, 2008

Invited Presentation: “Case Study: Comparative Effectiveness Reviews at the Southern California EPC: Off-label uses for Atypical Antipsychotics and Therapies for Low Bone Density” Academy of Health Annual Research Meeting, Washington DC, June 9, 2008

Invited Presentation: “Will Public Reporting of Performance Data Improve the Quality of Healthcare?” World Health Organization European Ministerial Conference on Health Systems, Tallinn, Estonia, June 24, 2008

Invited Presentation: “Controversies in Breast Cancer Screening Guidelines.” American College of Physicians Annual Meeting, Toronto, April 23, 2010

Invited Presentation: Integrated Program of the National Institute of Health and the Veterans Administration of the United States, University of Emilia Romagna 2010-2012-Rome, Italy March 21, 2011

Invited Presentation: The role of context in improving the quality of patient care-Health Foundation, London, UK September 21-23. 2011

Invited Presentation: A systems approach to chronic care management: What can we learn from Veterans Administration?—*A Systems Approach to Improving Chronic Disease Management*, Copenhagen, Denmark November 15, 2011

Invited Presentation: “High-Value Cost-Conscious Care: An American College of Physicians Initiative to Improve Health Care.” American College of Physicians Annual Meeting, New Orleans, April 19, 2012

Invited Presentation: “A comparison of six evidence frameworks for evaluating evidence for global health interventions”-Save the Children Foundation, Washington DC February 5, 2013

Invited Presentation: Treatment Options for Back Pain” An Ad Hoc Workgroup Meeting for the Patient-Centered Outcomes Research Institute (PCORI), Washington, DC, March 21, 2013

Invited Presentation: “Screening Men for Prostate Cancer: Guidance from the American College of Physicians Clinical Guidelines Committee.” American College of Physicians Annual Meeting, San Francisco, California, April 11, 2013

Invited Presentation: “Per la sicurezza dei pazienti; Patient Safety Practices. International Workshop” Bologna, Italy, September 9, 2013

Invited Presentation: Centers for Disease Control (CDC), Atlanta, Georgia December 11, 2013

Invited Presentation: WHO meeting on Patient Safety, Florence, Italy September 26-28, 2016

Invited Presentation: Guidelines International Network, “Innovative Efficiencies in Guideline Development and Maintenance: A Look to the Future.” Philadelphia, Pennsylvania, September 27-30, 2016

Invited Presentation: “A Primary Care Perspective on Gout” Medical Grand Rounds University of California, Los Angeles, November 9, 2016

Cyberseminar: Comparative Effectiveness of Multifocal, Accommodative, and Monofocal Intraocular Lenses for Cataract Surgery and Lens Replacement, June 13, 2018

Cyberseminar: Cost-effectiveness of Leg Bypass versus Endovascular Therapy for Critical Limb Ischemia: A Systematic Review, July 1, 2019

Invited Presentation: “Performance Measurement” Medical Grand Rounds University of California, Irvine, September 10, 2019

Invited Presentation: “A Primary Care Perspective on Gout” Medical Grand Rounds Sepulveda VA Medical Center, October 24, 2019

Cyberseminar: One-to-One Observation: A Systematic Review, December 19, 2019

Invited Presentation: Pros and Cons of Performance Measurement and What it Means for the Practicing Physician. Medical Grand Rounds. University of Alabama at Birmingham Medical Center. February 27, 2019.

PRIMARY RESEARCH

Scholarly Papers (Peer Reviewed)

A. Publications cited >1000 times in Google Scholar (last updated August 24, 2020)

1. Chaudhry B, Wang J, Wu S, Maglione M, Mojica W, Roth E, Morton SC, Shekelle PG. Systematic review: impact of health information technology on quality, efficiency, and costs of medical care. *Ann Intern Med.* 2006 May 16;144(10):742-52. Epub 2006 Apr 11.
2. Shekelle PG, Woolf SH, Eccles M, Grimshaw J. Clinical guidelines: Developing guidelines. *BMJ.* 1999;318:593-596.
3. Marshall MN, Shekelle PG, Leatherman S, Brook RH. The public release of performance data: What do we expect to gain? A review of the evidence. *JAMA.* 2000;283(14):1866-1874.
4. Chang JT, Morton SC, Rubenstein LZ, Mojica WA, Maglione MA, Suttorp MJ, Roth EA, Shekelle PG. Interventions for the prevention of falls in older adults: systematic review and meta-analysis of randomized clinical trials. *BMJ.* 2004 Mar 20; 328(7441):680.
5. Maggard MA, Shugarman LR, Suttorp M, Maglione M, Sugarman HJ, Livingston EH, Nguyen NT, Li Z, Mojica WA, Hilton L, Rhodes S, Morton SC, Shekelle PG. Meta-analysis: surgical treatment of obesity. *Ann Intern Med.* 2005 Apr 5;142(7):547-59.
6. Chou R, Quaseem A, Snow V, Casey D, Cross JT Jr, Shekelle P, Owens DK, Clinical Efficacy Assessment Subcommittee of the American College of Physicians; American College of Physicians; American Pain Society Low Back Pain Guidelines Panel. Diagnosis and treatment of low back pain: a joint clinical practice guideline from the American College of Physicians and the American Pain Society. *Ann Intern Med.* 2007 Oct 2;147(7):478-91.
7. Moher D, Liberati A, Tetzlaff J, et al, and the PRISMA Group. Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. *Ann Intern Med.* 2009;151:264–269. doi: <https://doi.org/10.7326/0003-4819-151-4-200908180-00135>
8. Moher, D., Shamseer, L., Clarke, M. et al. Preferred reporting items for systematic review and meta-analysis protocols (PRISMA-P) 2015 statement. *Syst Rev* 4, 1 (2015) doi:10.1186/2046-4053-4-1

9. Qaseem A, Wilt TJ, Weinberger SE, Hanania NA, Criner G, van der Molen T, Marciniuk DD, Denberg T, Schunemann H, Wedzicha W, MacDonald R, Shekelle P. Diagnosis and management of stable chronic obstructive pulmonary disease: a clinical practice guideline update from the American College of Physicians, American College of Chest Physicians, American Thoracic Society, and European Respiratory Society. *Ann Intern Med.* 2011 Aug 2;155(3):179-91

B. Major general interest medical journals (Ann Intern Med, BMJ, JAMA, Lancet, New Engl J Med) or cited 500-1000 times in Google Scholar (last updated January 13, 2020)

10. Shekelle PG, Adams AH, Chassin MR, Hurwitz EL, Brook RH. Spinal manipulation for low-back pain. *Ann Intern Med* 1992;117:590-598.
11. Hurwitz EL, Aker P, Adams AH, Meeker W, Shekelle PG. Mobilization and manipulation of the cervical spine: a literature synthesis. *Spine* 1996;21:1746-60.
12. Shekelle PG, Kahan JP, Bernstein SJ, Leape LL, Kamberg CJ, Park RE. The reproducibility of a method for identifying the overuse and underuse of medical procedures. *N Eng J Med*, 1998;338:1888-1895.
13. Shekelle PG, Coulter I, Hurwitz EL, Geneovese B, Adams AH, Mior SA, Brook RH. Congruence between decisions to initiate chiropractic spinal manipulation for low back pain and appropriateness criteria in North America. *Annals of Internal Medicine*, 1998;129(1):9-17.
14. MacLean CH, Louie R, Leake B, McCaffrey DF, Paulus HE, Brook RH, Shekelle PG. Quality of care for patients with rheumatoid arthritis. *JAMA.* 2000;284(8):984-92.
15. Shen J, Wenger N, Glaspy J, Hays RD, Albert PS, Choi C, Shekelle PG. Electroacupuncture for control of myeloablative chemotherapy-induced emesis: A randomized controlled trial. *JAMA.* 2000 Dec 6;284(21):2755-61.
16. Shekelle P, Eccles MP, Grimshaw JM, Woolf SH. When should clinical guidelines be updated? *BMJ.* 2001 Jul 21;323(7305):155-7.
17. Shekelle PG, Ortiz E, Rhodes S, Morton SC, Eccles MP, Grimshaw JM, Woolf SH. Validity of the Agency for Healthcare Research and Quality clinical practice guidelines: how quickly do guidelines become outdated? *JAMA.* 2001 Sep 26;286(12):1461-7.
18. Saliba D, Elliott M, Rubenstein LZ, Solomon DH, Young RT, Kamberg CJ, Roth C, MacLean CH, Shekelle PG, Sloss EM, Wenger NS. The Vulnerable Elders Survey: a tool for identifying vulnerable older people in the community. *J Am Geriatr Soc.* 2001 Dec;49(12):1691-9.
19. Wenger NS, Shekelle PG, and the ACOVE investigators. Assessing care of vulnerable elders: ACOVE project overview. *Ann Intern Med.* 2001 Oct 16;135(8):642-646.

20. Shekelle PG, MacLean CH, Morton SC, Wenger NS. Assessing the care of vulnerable elders: methods for developing quality indicators. *Ann Intern Med.* 2001 Oct 16;135(8):647-652.
21. Shekelle PG, MacLean CH, Morton SC, Wenger NS. ACOVE quality indicators. *Ann Intern Med.* 2001 Oct 16;135(8 Pt 2):653-67.
22. Chodosh J, Ferrell BA, Shekelle PG, Wenger NS. Quality indicators for the management of chronic pain in vulnerable elders. *Ann Intern Med.* 2001 Oct 16;135(8):731-735.
23. Shekelle PG, Vijan S. Quality indicators for the management of diabetes mellitus for vulnerable older persons. *Ann Intern Med.* 2001 Oct 16. www.acponline.org/sci-policy/.
24. Shapiro NL, Shekelle PG. Quality indicators for the management of hearing loss in vulnerable elder persons. *Ann Intern Med.* 2001 Oct 16. www.acponline.org/sci-policy/.
25. Budoff MJ, MacLean CH, Shekelle PG. Quality indicators for the management of ischemic heart disease in vulnerable older persons. *Ann Intern Med.* 2001 Oct 16. www.acponline.org/sci-policy/.
26. Rhew DC, Shekelle PG. Quality indicators for preventive care of the vulnerable elder. *Ann Intern Med.* 2001 Oct 16. www.acponline.org/sci-policy/.
27. Washington DL, Stevens CD, Shekelle PG, Henneman PL, Brook RH. Next-day care for emergency department users with nonacute conditions. A randomized, controlled trial. *Ann Intern Med.* 2002 Nov 5;137(9):707-14.
28. Stone EG, Morton SC, Hulscher ME, Maglione MA, Roth EA, Grimshaw JM, Mittman BS, Rubenstein LV, Rubenstein LZ, Shekelle PG. Interventions that increase use of adult immunization and cancer screening services: A meta-analysis of 218 controlled studies. *Ann Intern Med.* 2002;136(9):641-51.
29. Yueh B, Shapiro N, MacLean CH, Shekelle PG. Screening and management of adult hearing loss in primary care: scientific review. *JAMA.* 2003 Apr 16;289(15):1976-85.
30. Bogardus ST, Yueh B, Shekelle PG. Screening and management of adult hearing loss in primary care clinical applications. *JAMA* 2003 Apr 16;289(15):1986-90.
31. Shekelle PG, Rich MW, Morton SC, Atkinson SW, Wenli T, Maglione M, Rhodes S, Barrett M, Fonarow GC, Greenberg B, Heidenreich PA, Knabel T, Konstam MA, Steimle A, Stevenson LW. Efficacy of Angiotensin-Converting Enzyme Inhibitors and Beta-Blockers in the Management of Left Ventricular Systolic Dysfunction According to Race, Gender, and Diabetic Status. A Meta-Analysis of Major Clinic Trials. *JACC* 2003;May;41(9).

32. Cherkin DC, Sherman KC, Deyo RA, Shekelle PG. A review of the evidence for the effectiveness, safety and cost of acupuncture, massage therapy and spinal manipulation for back pain. *Ann Intern Med* 2003 Jun 3;183(11):898-906.
33. Shiffman RN, Shekelle PG, Overhage JM, Slutsky J, Grimshaw J, Deshpande AM. Standardized reporting of clinical practice guidelines: A proposal from the conference on guideline standardization. *Ann Intern Med* 2003 Sep 16 139(6); 493-498.
34. Shekelle PG, Hardy ML, Morton SC, Maglione M, Mojica WA, Suttorp MJ, Rhodes SL, Jungvig L, Gagne J. Efficacy and safety of ephedra and ephedrine for weight loss and athletic performance. A meta-analysis. *JAMA* 2003 March 26;289:1537-1545.
35. Assendelft, WJJ, Morton SC, Yu EI, Suttorp MJ, Shekelle PG. Spinal Manipulative Therapy for Low Back Pain. A Meta-Analysis of Effectiveness Relative to Other Therapies. *Ann Intern Med* 2003 June 2 138(11);871-881.
36. Wenger NS, Solomon DH, Roth CP, MacLean CH, Saliba D, Kamberg CJ, Rubenstein LZ, Young RT, Sloss EM, Louie R, Adams J, Chang JT, Venus PJ, Schnelle JF, Shekelle PG. The Quality of Medical Care Provided to Vulnerable Older Patients. *Ann Intern Med.* 2003 Nov 4; 139(9):740-7.
37. Goldzweig CL, Rowe S, Wenger NS, MacLean CH, Shekelle PG. Preventing and managing visual disability in primary care: clinical applications. *JAMA.* 2004 Mar 24; 291(12):1497-502.
38. Rowe S, MacLean CH, Shekelle PG. Preventing visual loss from chronic eye disease in primary care: scientific review. *JAMA.* 2004 Mar 24;291(12):1487-95.
39. Higashi T, Shekelle PG, Solomon DH, Knight EL, Roth C, Chang JT, Kamberg CJ, MacLean CH, Young RT, Adams J, Reuben DB, Avorn J, Wenger NS. The quality of pharmacologic care for vulnerable older patients. *Ann Intern Med.* 2004;140:714-20.
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41. Higashi T, Shekelle PG, Adams JL, Kamberg CJ, Roth CP, Solomon DH, Reuben DB, Chiang L, MacLean CH, Chang JT, Young RT, Saliba DM, Wenger NS. Quality of care is associated with survival in vulnerable older patients. *Ann Intern Med.* 2005 Aug 16;143(4):274-81.
42. Shekelle PG, Morton SC, Suttorp MJ, Buscemi N, Friesen C. Challenges in Systematic Reviews of Complementary and Alternative Medicine Topics. *Ann Intern Med.* 2005 Jun 21;142(12 pt 2):1042-7.
43. Chodosh J, Morton SC, Mojica W, Maglione M, Suttorp MJ, Hilton L, Rhodes S, Shekelle P. Meta-analysis: chronic disease self-management programs for older adults. *Ann Intern Med.* 2005 Sep 20;143(6):427-38.

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45. Chang JT, Hays RD, Shekelle PG, MacLean CH, Solomon DH, Reuben DB, Roth CP, Kamberg CJ, Adams J, Young RT, Wenger NS. Patients' global ratings of their health care are not associated with the technical quality of their care. *Ann Intern Med.* 2006 May 2;144(9):665-72. Summary for patients in: *Ann Intern Med.* 2006 May 2;144(9):126.
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60. Maher AR, Maglione M, Bagley S, Suttorp M, Hu JH, Ewing B, Wang Z, Timmer M, Sultzer D, Shekelle PG. Efficacy and comparative effectiveness of atypical antipsychotic medications for off-label uses in adults: a systematic review and meta-analysis. *JAMA*. 2011 Sep 28;306(12):1359-69.
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