David C. Goodman, MD MS

April 2025

Research Address: The Dartmouth Institute for Health Policy & Clinical Practice
Geisel School of Medicine at Dartmouth
Room 561, Williams Translational Research Building
Lebanon, NH 03756
(603) 369-0533

E-mail Address: david.c.goodman@dartmouth.edu

Education:

1977 Univ. of Vermont, College of Arts and Sciences, Burlington VT, BA (Honors in Biochemistry)
1981 State University of New York, Upstate Medical Center, Syracuse NY, MD
1995 Dartmouth College, Hanover NH, MS (Epidemiology/biostatistics)

Post-doctoral Training:

1981-1984 Pediatric Residency, The Johns Hopkins Hospital, Baltimore, MD

Licensure and Certification:

National Board of Medical Examiners, Parts I, II, III
American Board of Pediatrics (1986) (Voluntary recertification 1996; 2008)
New Hampshire, No. 6878

Major Research Interests:

Variation in the quality and efficiency of perinatal care, particularly neonatal intensive care.

Inquiry into the theories, methods, and implications of the causes and consequences of unwarranted variation in health care capacity and utilization.

The international development and dissemination of research into unwarranted health care variation.

Academic Appointments:

1981-1984	Fellow in Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD
1987-1988	Adjunct Assistant Professor of Clinical Maternal and Child Health, Dartmouth Medical School, Hanover, NH
1988-1995	Assistant Professor of Pediatrics, Dartmouth Medical School
1991-2007	Senior Scholar, The Center for the Evaluative Clinical Sciences (CECS), Dartmouth Medical School
1993-1995	Assistant Professor of Community and Family Medicine, Dartmouth Medical School
1995-2004	Associate Professor of Pediatrics and of Community and Family Medicine, Dartmouth Medical School
1995-2022	Investigator, The Dartmouth Atlas of Health Care Working Group, The Center for the Evaluative Clinical Sciences (CECS), Dartmouth Medical School
1998-2004	Director, Pediatric Physician Scientist Program, Dartmouth Medical School
2004-2009	Professor of Pediatrics and of Community and Family Medicine, Dartmouth Medical School
2007-2009	Associate Director, The Center for Health Policy Research, The Dartmouth Institute for Health Policy and Clinical Practice
2009-present	Professor of Pediatrics and of Health Policy, Geisel School of Medicine at Dartmouth

2009-2013	Director, The Center for Health Policy Research, The Dartmouth Institute for Health Policy and Clinical Practice
2013-2024	Adjunct Professor of Health Services Research, Institute of Social and Preventive Medicine, University of Bern, Switzerland
2018-present	Adjunct Professor of Pediatrics, University of Texas, McGovern Medical School, Houston

Other Professional Positions:

1984-1988	National Health Service Corp assignment (private practice option): Sole pediatrician in Coos County practicing within rural multi-specialty group, Indian Stream Professional Association, Colebrook, NH; Director of clinic
1984-1988	Active Staff, Upper Connecticut Valley Hospital, Colebrook, NH
1988-2004	Ambulatory, inpatient, and consulting services in general pediatrics, Dartmouth-Hitchcock Clinic, Section of Pediatric and Adolescent Medicine
1988-2017	Clinical Staff, Mary Hitchcock Memorial Hospital
1989-1992	Medical Director Newborn Nursery, Mary Hitchcock Memorial Hospital
1989-2017	Ambulatory, inpatient, and consulting services in pediatric allergy, Dartmouth-Hitchcock Clinic, Section of Pediatric and Adolescent Medicine
1993-2002	Director, Pediatric Allergy/Asthma Program, Dartmouth-Hitchcock Clinic, Section of Pediatric and Adolescent Medicine
2002–2003	Chief (Interim), Section of Allergy and Immunology, Dartmouth Hitchcock Medical Center
2003–2006	Chief, Section of Allergy and Clinical Immunology, Dartmouth Hitchcock Medical Center
2007-2021	Co-Principal Investigator, *The Dartmouth Atlas of Health Care*
2010-present	Director and Co-founder, *Wennberg International Collaborative* (in collaboration with Prof. Gwyn Bevan, London School of Economics and Political Science).

Misc. Institutional Service (since 2010)

2010-2013	Search committee chair: Faculty – Director of Center for Surgical Evaluation; Dartmouth-Institute and Norris Cotton Cancer Center asst. professors (2); staff: multiple research analysts and programmers for the Data and Analytic Core
2009-2013	Dartmouth Institute Council
2007-2013	Faculty lead for the Dartmouth Institute Data and Analytic Core
2013-2015	Research Committee, Dartmouth Institute
2012-2014	Data and Analytic Core Advisory Committee (Chair 2012 -2014)
2013-2016	Admissions Committee, The Dartmouth Institute MPH program
2014-2017	Faculty Council, Geisel School of Medicine at Dartmouth
2014-2018	Curriculum Committee, The Dartmouth Institute MPH program
2016-2020	Appointment, Promotion, and Tenure Committee. Geisel School of Medicine at Dartmouth
2019-2025	Council on the Libraries, Dartmouth College; Open Educational Resources-Textbook Affordability subgroup (2023-2024)
2019-2022	Doctoral Program Committee, The Dartmouth Institute
2022-2025	Appointment, Promotion, and Tenure Committee. Dartmouth Institute. Chair
2022	Geisel Appointment, Promotion, and Tenure Ad Hoc Committee
2023-2024	Search committee member, Health economists (n=2) TDI recruitment.
2024-2025	Search committee member, Paul Batalden Chair TDI recruitment.

Awards and Honors:

1977	Magna Cum Laude, University of Vermont, College of Arts and Sciences, Burlington VT
1977	College Honors in Biochemistry, University of Vermont, College of Arts and Sciences, Burlington VT
1981	Alpha Omega Alpha, State University of New York, Upstate Medical Center, Syracuse NY
2006	American Pediatric Society, Fellow

2017 Delta Omega Honor Society, Delta Iota Chapter

2018 John M. Eisenberg Article-of-the-Year Award, *Health Services Research*. Chang CH, O'Malley AJ, Goodman DC. Association between Temporal Changes in Primary Care Workforce and Patient Outcomes. *Health Serv Res*, 52: 634–655. doi:10.1111/1475-6773.1251 PMID: 27256769

Major Committee Assignments and Consultations:

International

1997 US delegate and invited paper, 2nd International Medical Workforce Conference, Vancouver, British Columbia

1998 US delegate, 3rd International Medical Workforce Conference, Cambridge, United Kingdom

1999 US delegate and invited paper, 4th International Medical Workforce Conference, San Francisco, California

2000 US delegate and planning committee member, 5th International Medical Workforce Conference, Sydney, Australia

2002 US delegate, 6th International Medical Workforce Conference, Ottawa, Canada

2003 US delegate, 7th International Medical Workforce Conference, Oxford, United Kingdom

2004 US delegate and planning committee member, 8th International Medical Workforce Conference, Washington, DC

2005 US delegate and planning committee member, 9th International Medical Workforce Conference, Melbourne, Australia

2009-2010 US delegate and planning committee member, 12th International Medical Workforce Conference, New York, NY

2012-2014 Expert Advisor, Medical Practice Variation Project, Organisation for Economic Cooperation and Development, Paris.

2015-2023 Swiss National Science Foundation, National Research Programme on "Health Care in Switzerland" (Gesundheitsversorgung in der Schweiz), steering committee member.

2019-2024 Expert Advisor, 'Group Care for the first 1000 days (GC_1000)", European Commission (Project number 848147); participating implementation countries: The Netherlands, Kosovo, Ghana, South Africa, Belgium, Suriname, The UK.

National

1993-1996 Co-chair, Civilian External Peer Review Program, Medical Advisory Panel for asthma medical care in military personnel and dependents, Department of Defense

1995 Member, Special Emphasis Panel - National Cooperative Inner-City Asthma Study, National Institute of Allergy and Infectious Diseases

1995-1997 Member, Health Care Delivery Committee - Ambulatory Pediatric Association

1999 Member, Specialty Physician Workforce Advisory Committee, Council of Graduate Medical Education (COGME)

1999-2002 Member, Health Systems Research Study Section – Agency for Health Research and Quality (AHRQ)

2000-2006 Member, Committee on Pediatric Workforce, American Academy of Pediatrics

2001-2003 Member, National Committee for Quality Assurance, HEDIS asthma measures taskforce

2007-2010 Advisory Board, Medical Education Futures Study (Josiah Macy Jr. Foundation)

2009-2010 Member, Committee on the Robert Wood Johnson Foundation Initiative on the Future of Nursing, Institute of Medicine

2010 Planning Committee, "Approaching Death, Fourteen Years Later: Where Are We Now?", Institute of Medicine Planning Meeting

2010-2014 Member, External Advisory Committee, National Institute for Diabetes and Digestive and Kidney Diseases (NIDDKD) Central Repositories

2010-2011 Member, Negotiated Rulemaking Committee for the Designation of Medically Underserved Areas and Health Profession Shortage Areas. HRSA, DHHS.

2010-2014 Chair (2012-2014) Vice Chair (2011-2012) Member (2010-2011), Council on Graduate Medical Education

2012 Planning Committee, "Expert Meeting on End-of-Life: System Mapping Development", Institute of Medicine Planning Meeting

Editorial Boards:

2000-present *The Dartmouth Atlas of Health Care*, Dartmouth Medical School
2004-2008 *Pediatrics*
2004-2006 *Dartmouth Medicine*
2006-2014 *Health Services Research*
2012-2014 *Journal of Pediatrics*
2021-present *Research in Health Services and Regions*

Journal Referee Activities: (selected)

British Medical Journal
Health Affairs
Health Services Research
JAMA
Journal of Pediatrics
New England Journal of Medicine
Pediatrics

Professional Societies:

1980-present Alpha Omega Alpha Medical Honorary Society
1984-present American Academy of Pediatrics, Fellow
1984-present New Hampshire Pediatric Society
2000-present AcademyHealth
2006-present American Pediatric Society, Fellow

Teaching Activities (since 2005):

Geisel Medical School at Dartmouth (TDI) – Masters & Ph.D. teaching

1997-2003 *CECS Ph.D. Seminars.* Topics included: Epidemiology – Methods in ecological and contextual analyses; Methods in measuring children's health; Policy issues in children's health care
1998-2008 *Pediatric Evaluative Clinical Science Seminar.* Taught periodically. Seminar director.
2003-2008 *Advanced Methods in Health Services Research*. Taught annually. Course director.
2013-2014 *International Health Systems Seminar* (TDI Masters students)
2010-2020 *Current Status of Practice Variation Research*, Co-taught with John Wennberg
2014-2019 *Comparative Health Systems*, Course director
2016-2018 *Epidemiology/biostatistics* Part 1, Course director
2016-2019 *Epidemiology/biostatistics* Part 2, Course director
2021-2022 *U.S. Maternal and Child Health Care,* Course director
2021-present *Medical Care Epidemiology (Residential),* Course director
2023-2024 *Medical Care Epidemiology (Hybrid),* Course director

Medical Student and Resident teaching

1991-2009 Pediatric "noon time" lectures – (generally 3-4 lectures per year) Examples include: *Managing Acute Asthma; Food Allergies; Five Reasons to be Really Good at Asthma Management; How to be Your Own Asthma Consultant; Anaphylaxis; Newer Medications for Children with Asthma; Summer Allergies.*

Resident teaching

1993-2006 Pediatric Allergy Rotation, Director (2 - 3 residents per year)

Medical Student teaching
2002-2006 Pediatric asthma lecture/seminar to 3rd year students (75 min.; 6 times a year)
2005-2006 Advanced Medical Science Seminar (4th year medical students)

Intermountain Healthcare, Institute for Health Care Delivery Research Advanced Training Program
2011-2022 "Measuring and Interpreting Health Care Variation" (half day); twice annually

University of Virginia Center for Health Policy
2013-2014 "Workforce Policy" in The U.S. Health Care System and Its Place in the World

University of Bern and the Swiss School of Public Health
2013-2020 Doctoral students' research advisor
2015-present "Medical Care Epidemiology" Intensive 3-day course for doctoral students (offered periodically)

University of Texas, McGovern Medical School, Houston
2022- present "Medical Care Epidemiology" Intensive 3-day course for graduate students

Research Grants and Contracts:
Current

Disparities in Early Childhood Health Outcomes Following Prenatal Opioid Exposure and Protective Health System Factors: a Population Perspective
National Institute for Drug Abuse (1R01DA062152-01
Name of PD/PI: Leyenaar, J. (Goodman, D. Dartmouth Subaward PI)
10/2024 – 7/2029
Total Award Amount (including Indirect Costs): $3,622,890
Dartmouth subcontract (YR1; 9 mo) $94,781 in directs and $60,613 in indirects
Percent effort – 12.5%

Center for Rural Health Care Delivery Science – Administrative & Mentoring Core (A&M, Core A), COBRE (P20GM148278)
National Institute of General Medical Science
Name of PD/PI: Creager, M. (O'Malley, A.J., Subaward PI) 04/2023 – 01/2028
Total Sub Award Amount (including Indirect Costs): $113,398
Percent effort – 5%

Quality of Care for Children with Medical Complexity in the Military Health System and Association with Maternal Behavioral Health
Department of Defense, Defense Health Agency
Name of PD/PI: Leyenaar, J. (Goodman, D., Dartmouth Subaward PI)
9/2022-12/2025
Total Award Amount (including Indirect Costs): $511,868
Percent effort – 20%

Determinants of Newborn Health and Health Care Trajectories in the First Year of Life
Eunice Kennedy Shriver National Institute of Child Health and Human Development
Total Costs - $2,981,179
June 1, 2021 – May 31, 2026
Principal Investigator - David Goodman
Percent effort – 35%

Urban-Rural Disparities in Healthcare Quality for Children with Complex or Disabling Health Conditions
National Institute on Minority Health and Health Disparities
January 2020 -November 2025
Principal Investigator – JoAnna Leyenaar

PI Dartmouth subaward – David Goodman
Total cost Dartmouth subaward Yr 1 – $265,181
Percent effort – 20%

Past

The Population Institute, Washington, DC
Vermont student intern, studying VT population migration patterns and its effects on land use patterns. (1973-1974)

Travel Time to Essential Pediatric Services in Northern New England
The Hitchcock Foundation
Total costs $4,115
July 1989 - June 1990
Principal Investigator - David Goodman
Percent effort – 5%

Travel Time to Essential Pediatric Services in Northern New England
The Rockefeller Center at Dartmouth College
Total costs $9,070
July 1989 - June 1990
Principal Investigators - David Goodman, Richard B (Geography)
Percent effort – 5%

Monitoring the Effectiveness of Medical Care in Meeting Public Health Needs in Northern New England: A Population-based Approach Relying on Health Care Administrative Data Bases
Pew Charitable Trusts and The Rockefeller Foundation: Health of the Public grant
July 1990- March 1993
Principal Investigator - Harold Sox
Investigator
Percent effort – 20%

Development of an Alternative Approach to the Review of the Quality of Care Provided in Hospitals
Health Care Financing Administration
Nov 1990 - Dec 1993
Principal Investigators- Robert E. Aurilio (NH Foundation for Medical Care), John E. Wennberg
Medical care epidemiologist for Internal Medicine study group
Investigator
Percent effort – 20%

Massachusetts Pediatric Lead Epidemiology Study
US Centers for Disease Control
1991-1992
Principal Investigator - James Sargent (Dartmouth subcontract)
Investigator
Percent effort – 10%

The Epidemiology of Pediatric Asthma Hospitalizations (FIRST Award; R29)
National Heart, Lung, and Blood Institute
Direct costs: $349,926
April 1994 – February 1999
Principal Investigator - David Goodman
Percent effort - 40%

Health Reform and Small Area Analysis

Robert Wood Johnson Foundation
May 1994 - March 1999
Principal Investigator - John E. Wennberg
Investigator
Percent effort – 10%

The Epidemiology of Pediatric Asthma Medications
American Lung Association (New Hampshire Chapter) - Robert B. Kerr Award
Direct costs: $50,000
July 1997 - June 1999
Principal Investigator - David Goodman
Percent effort – 10%

The Development and Characterization of Primary Care Service Areas (pilot project)
Bureau of Health Professions (HRSA)
Direct costs $78,000
June 1998-April, 1999
Principal Investigator – David Goodman
Percent effort – 20%

Development of a National Primary Care Resources Database
Bureau of Health Professions (HRSA)
Direct costs $62,000
May 1999-September 1999
Principal Investigator – David Goodman
Percent effort – 20%

Physician Regional Workforce Trends
Bureau of Health Professions (HRSA)
Direct costs $31,000
October 1999 – June 2000
Principal Investigator – David Goodman
Percent effort – 10%

Fifth Annual International Medical Workforce Conference
Bureau of Health Professions (HRSA)
Direct costs $49,967
October 2000 – January 2001
Principal Investigator – David Goodman
Percent effort – 5%

Is More Actually Better? The Implications of Increasing Capacity in Health Care
Robert Wood Johnson Foundation
November 1997 - October 2001
Principal Investigator - Elliott Fisher
Investigator
Percent effort – average 20%

Development and Evaluation of Primary Care Service Areas: National Study
Health Resources and Services Administration
Total direct costs $1,692,429
October 1999 – September 2002
Principal Investigator – David Goodman
Percent effort 40%

Utilization, System of Care, and Outcome of CABG in New York Veterans
Department of Veterans Affairs
October 2002 – September 2004
Principal Investigator -William Weeks, VAH; David Bott, Dartmouth subcontract
Investigator
Percent effort 5%

Mapping the Pediatric Workforce
American Academy of Pediatrics
Total direct costs $25,0000
January 1, 2003 – June 30, 2004
Principal Investigator – David Goodman
Percent effort 5%

Impact of Family Planning Service Availability
The Centers for Disease Control
Total direct costs $252,988
October 1, 2002 – September 30, 2005
Principal Investigator – David Goodman
Percent effort 20%

Frontier Definition Development
Office for the Advancement of Telehealth (HRSA)
Total direct costs $24,900
September 15, 2004 – September 14, 2005
Principal Investigator – David Goodman
Percent effort 5%

Reducing Avoidable Deaths by Directing Veterans' Private Sector Surgical Care
VA Health Services Research and Development Service
Total direct costs $31,704 (Dartmouth subcontract)
January 1, 2005 – December 31, 2005
Principal Investigator – William Weeks (Dartmouth subcontract PI: David Goodman)
Investigator
Percent effort 5%

9th International Medical Workforce Collaborative
Josiah Macy, Jr Foundation
Total direct costs $12,000
August 1, 2005 – July 31, 2006
Principal Investigator – David Goodman

Establishing Research Collaboration Between March of Dimes and Dartmouth
March of Dimes
Total direct costs $20,000
December 2005 – December 2006
Principal Investigator – David Goodman

Primary Care Service Areas Enhancements and Studies
Health Resources and Services Administration
Total direct costs $1,791,664
October 1 2002 – September 30, 2007
Principal Investigator – David Goodman
Percent effort 40%

Access to High Quality Surgical Care in Rural America
Mithoefer Center
October 1, 2006 – September 30, 2007
Principal Investigator – Samuel Finlayson, MD
Investigator
Percent effort 10%

The Dartmouth Atlas of Health Care
Robert Wood Johnson Foundation
September 1, 2007 – December 31, 2010
Principal Investigator – Elliott Fisher, MD
Co-Principal Investigator
Percent effort 40%

Improving Estimates of Primary Care Physician Capacity to Serve the Medicare Population
Health and Human Services, Office of Assistant Secretary for Planning and Evaluation
Total direct costs - $124,000
October 1, 2010 – November 15, 2011
Principal Investigator –David Goodman
Percent effort 5%

Causes and Consequences of Health Care Efficiency
National Institute on Aging
April 15, 2007 – February 29, 2012
Principal Investigator – Jonathan Skinner
Investigator
Percent effort 10%

Primary Care Service Areas Enhancements and Studies
Health Resources and Services Administration
Total direct costs $1,184,441
October 1, 2007 – September 30, 2012
Principal Investigator – David Goodman
Percent effort 20%

The Dartmouth Atlas of Health Care
WellPoint Foundation
Total direct costs - $652,173
April 1, 2009 – March 31, 2013
Principal Investigator –David Goodman
Percent effort 10%

The Dartmouth Atlas of Health Care
Robert Wood Johnson Foundation
Total direct costs - $3,477,919
December 1, 2010 – November 30, 2014
Co-Principal Investigators –Elliott Fisher and David Goodman
Percent effort 40%

Improving Children's Health through Restoring Pediatric Leadership in Measuring Health System Performance
The Charles H. Hood Foundation
Total direct costs - $454,222
March 1, 2012 – February 28, 2014
Principal Investigator –David Goodman
Percent effort 10%

Primary Care Service Areas Enhancements and Studies
Health Resources and Services Administration
Total direct costs $1,606,105
October 1, 2012 – September 30, 2015
Principal Investigator – David Goodman
Percent effort 15%

Dartmouth Atlas of Health Care Renewal
California Health Care Foundation
Total costs - $525,000
October 1, 2012 – September 30, 2015
Principal Investigator –David Goodman
Percent effort 10%

The Epidemiology and Efficiency of Neonatal Intensive Care
The Charles H. Hood Foundation
April 1, 2015 – December 31, 2017
Principal Investigator –David Goodman
Total costs - $450,000
Percent effort 12%

Updating Dartmouth Atlas Measures Used in Evaluating the Success of the Aligning Forces for Quality Program
Robert Wood Johnson Foundation
Total direct costs - $399,591
April 15, 2015 – December 1, 2017
Co-Principal Investigator – David Goodman
Percent effort 5%

Improving Value in Neonatal Intensive Care Through Public Reporting: A Dartmouth Atlas of Health Care project
The Anthem Foundation
January 1, 2015 – December 31, 2018
Principal Investigator –David Goodman
Total costs - $ 798,086
Percent effort 20%

Improving the Identification of Quality and Value in Newborn Care in Texas
The State of Texas Commission of Health and Human Services
March 1, 2015 – Feb 28, 2018
Principal Investigator –David Goodman
Total costs - $ 933,035
Percent effort 20%

Post-discharge Newborn Outcomes Associated with Shorter Neonatal Intensive Care Unit Stays Kettering Family Philanthropies
Total cost - $50,000
June 2019 – May 2020
Principal Investigator - David Goodman
Percent effort – 5%

Accelerating the Use of Evidence-Based Innovations in Healthcare Systems
AHRQ
September 2015 – August 2020
Principal Investigator – Ellen Meara

Percent effort – 20%

Using Geographic Variations to Improve Quality and Reduce Costs in the Military Health System
Department of Defense
Total costs - $2,348,543
January 2020 – January 2022 (no cost extension through October 2023)
Principal Investigator - David Goodman
Percent effort – 33%

Does Growth in Neonatal Intensive Care Occur Where its Most Needed? Temporal Trends in Regional Neonatal Intensive Care Capacity and Association with Perinatal Risk and Outcomes
Kettering Family Foundation
July 1, 2022 - June 30, 2024
Total costs - $55,000
Principal Investigator - David Goodman
Percent effort – 2%

Media:

Extensive media interviews and consultations including the New York Times, Wall Street Journal, Washington Post, Los Angeles Times, USA Today, Boston Globe, the Associated Press, National Public Radio, and the CBS Evening News.

Invited Presentations:

National (since 2005)

2005 "The Use of Medicare Claims to Enhance Physician Location and Specialty Information" American Association of Medical Colleges Physician Workforce Research Conference. Washington, DC. Plenary speaker.

2005 "The Future of the General Pediatric Workforce: Will the Rising Tide Lift All Children?" Child Health Services Research Meeting at the AcademyHealth Annual Meeting. Boston, MA.

2005 "Outcomes Oriented Medical Workforce Policy" Council on Medical Education, Texas Medical Association. Austin, TX.

2005 "Regional Variation in the Medical Workforce" Committee on Physician Distribution and Health-Care Access, Texas Medical Association. Austin, TX. Plenary speaker.

2006 "Regional Variation in Birth Outcomes: The Limits of Marketplace Solutions" Albert Einstein College of Medicine, Department of Obstetrics & Gynecology and Women's Health, Grand Rounds. Bronx, NY.

2006 "Regional Variation in Birth Outcomes: Opportunities for Research and Improvement" The March of Dimes National Office, Grand Rounds. White Plains, NY.

2006 "The Impending Physician Shortage: A Contrarian View" The Population Research Center, University of Maryland. College Park, MD. Research seminar.

2006 "Physician Services: Linking Quality and Efficiency" Physician Spending Growth: Do We Get What We Pay For? National Health Policy Forum. Washington, DC. Plenary speaker.

2006 "Benchmarking Hospital Longitudinal Efficiency" at Health Care: What does it Mean? How is it Measured? How can it be used for Value-Based Purchasing. AcademyHealth / Agency for Health Care Research and Quality, Madison, WI. Plenary speaker.

2006 "Does Quality Medical Care Cost More?" North Shore – Long Island Jewish Leadership Retreat. Montauk Point, NY. Keynote address.

2006 "Physician Shortage: Causes and Consequences" St. Francis Health Care System Leadership Retreat. Dallas, TX. Keynote address.

2006 "Mapping Benchmarks in Medical Care: The Dartmouth Atlas Experience" Iowa Hospital Association Annual Meeting. Des Moines, IA.

2006 "Reducing Variation in Clinical Care" Voluntary Hospital Association National CEO Workgroup for Clinical Excellence. Dallas, TX. Keynote address.

2006 "Taming Unwarranted Variations" American Medical Association Interim Meeting. Las Vegas, NV.

2006 "Health Care Spending at the End of Life. A Health Care System Biopsy" at Dollars and Sense: Health Care Spending and Strategy in New York. United Hospital Fund. New York NY. Plenary speaker.

2006 "Ecological Measures and Multi-level Models" March of Dimes National Office. White Plains, NY.

2007 "The Trouble Physician Workforce: Is a Physician Surge the Answer?" at National Health Policy Conference. AcademyHealth/Health Affairs. Washington, DC.

2007 "Planning Graduate Medical Education: Outcomes and Effectiveness" at Graduate Medical Education Strategic Planning Meeting, University of Wisconsin Hospitals and Clinics. Madison, WI. Plenary speaker.

2007 "The Dartmouth Atlas Project: Performance Measures for New Jersey" at New Jersey Hospital Association. Montclair, NJ and Princeton, NJ. Keynote address.

2007 "Riding the Ebb Tide? Children's Health Care in an Aging Society" at Boston Medical Center Grand Rounds. Boston, MA.

2007 "Perspectives on Workforce Expansion: An Inconvenient Truth" at Plenary Session of Association of American Medical Colleges Physician Workforce Research Conference. Bethesda, MD. Plenary speaker.

2007 "The Ultimate Question: Do We Need More Doctors" at the Princeton Health Economics Conference. Princeton, NJ. Plenary speaker.

2007 "Reducing Variation in Clinical Care" at the National VHA Physician Leadership Council, San Francisco, CA. Plenary speaker.

2007 "The Troubled Physician Workforce: Intensive Care or Watchful Waiting?" at the American Orthopaedic Association Annual Meeting. Asheville, NC. Plenary speaker.

2007 "Regional Variation in Hospice Use in Medicare Beneficiaries" at the Quality of Life Committee, American Cancer Society, Atlanta.

2008 "The Bright Hope of Medicine: Recent Lessons in Quality and Costs" Texas Medical Society Winter Leadership Meeting, Austin, TX. Keynote address.

2008 “The Epidemiology of the Pediatric Workforce: Do More Pediatricians Improve Children’s Health?” Grand Rounds, Department of Pediatrics, University of Florida College of Medicine, Gainesville, FL.

2008 “Beyond Regional Variation: Strategies for Improving Health System Performance” Health Action Council, Cleveland, OH. Keynote address.

2008 “Ethical Inference in End-of-Care: Data from the *Dartmouth Atlas*” A Troubling Abundance of Care: Over-treatment at the End of Life. The Richard Stockton College of New Jersey, Pomona, NJ. Keynote address.

2008 “Ethical Imperatives in End-of-Life Care: A View from the *Dartmouth Atlas*” Illinois Hospital Association Annual Quality Leadership Conference, Naperville, IL. Plenary speaker.

2008 “Primary Care: Past Disappointments, New Hope? Causes and Consequences of the Shift Away from Primary Care. " AcademyHealth annual meeting, Washington, DC.

2008 “Primary Care Service Areas” National Association of Community Health Centers Community Health Institute, New Orleans, LA.

2008 "Iowa Health Business Alliance. *Dartmouth Atlas:* Too Much Treatment?" The Iowa Advantage. Iowa Health Business Alliance. Des Moines, IA. Keynote address.

2008 “Internal Medicine Workforce Needs: An Evidence-based Approach to Workforce Planning." Academic Internal Medicine Week 2008, Orlando, FL. Plenary speaker.

2008 "Physician Supply and Patient Outcomes: An Evidenced-based Approach to Workforce Planning." AMA Interim Meeting, Council on Medical Education. Orlando, FL.

2008 "Children's Health Care in an Aging Society" Connecticut Children's Hospital Grand Rounds. Hartford, CN.

2009 "Invest in Health Workforce Policy that Works" National Health Policy Conference, Washington, DC, Speaker and moderator.

2009 "The Physician Workforce Crisis: A Shortage of Doctors or a Shortage of Accountability?" Health Policy Fellowship, Midwestern University Arizona College of Osteopathic Medicine, Glendale, AZ.

2009 "Are Quality and Costs Competitors or Partners? A *Dartmouth Atlas* Perspective" Quality Rounds, Brigham and Women's Hospital, Boston, MA.

2009 "Can New York Learn from Iowa? Unwarranted Variation in Medical Care" Medicine Grand Rounds, Mt. Sinai Hospital, New York, NY. Visiting professor.

2009 "What Physician Shortage? An Evidence-based Perspective" 4th Rural Surgery Symposium, Cooperstown, NY, Keynote address.

2009 "*The Dartmouth Atlas of Healthcare* Report on End-of-Life Care" Fourth Annual Conference of the New Jersey End-of-Life Nursing Education Consortium, Atlantic City, NJ, Keynote address.

2009 "Epidemiologic Muckraking: Measuring Variation in Medical Care" Ninth Annual Research Week Baystate Medical Center, Springfield, MA, Keynote address.

2009 "Reducing Growth in Health Care Expenditure: Promoting System Evolution" Health Care Quality and Payment Reform Congress, Boston, MA, Opening Keynote Panel.

2009 "Geography is Destiny: The Epidemiology of Health Care" ESRI Health GIS Conference, Nashville, TN, Keynote Address.

2009 "End-of-Life Care in the Elderly: The Autumn of My Discontent" National Hospice Work Group, Chatham MA. Plenary speaker.

2009 "The Value of Health Data to Health Care Reform" National Association of Health Data Organizations Annual Meeting, Washington, DC. Plenary speaker.

2009 "Unwarranted Variation in Health System Performance: What Do We Know About New Jersey?" Medicine Grand Rounds, St. Peters Hospital, New Brunswick, NJ.

2009 "Exploring Variation Amongst Advanced Illness." The World Health Care Congress Leadership Summit on End of Life Care, Orlando, FL, Keynote address.

2010 " Challenging Our Assumptions About the Health Workforce" Ten-State Conference, Louisville, KY. Plenary speaker.

2010 "Dartmouth Atlas of Healthcare: Benchmarking Your Hospital to Target Needed Improvements" Annual World Health Care Congress, Washington, DC.

2010 "Dartmouth Atlas of Healthcare: What Do We Know About End of Life Care?" Annual World Health Care Congress, Washington, DC.

2010 "Primary Care Supply and Population Outcomes" Council on Graduate Medical Education, Washington, DC.

2010 "Will More Physicians Improve the Health of Patients?" Health Journalism 2010, Chicago, IL.

2010 "How to Spend $1 Trillion Dollars and Not Make America Sicker" Health & America Briefing 2010, Bloomberg Link, Chicago, IL.

2010 "Unwarranted Variation in Health System Performance. What Do We Know About Southern New Jersey?" Cooper Health System Leadership Retreat, Camden, NJ. Plenary speaker.

2010 "Does Improving End-Of-Life Care Require Reforming Clinical Care or System Capacity? Hospital-specific Analyses From the *Dartmouth Atlas of Healthcare* Project" 17th Princeton Conference. Examining End of Life Care: Creating Sensible Public Policies for Patients, Providers, and Payers, Princeton, NJ. Plenary speaker.

2010 "Geographic Variation in Hospital Specific Practice Patterns: Implications for Illinois Hospitals." Illinois Quality Leadership Conference, Illinois Hospital Association. Lisle, IL. Plenary speaker.

2010 "Is Rationing Health Care in Our Future? And, How Can Physician Workforce Research Provide the Answer." Twelfth Annual Southern Illinois University Health Policy Institute. Carbondale, IL. Invited paper.

2010 "Is Rationing Health Care in Our Future? And, How Can Physician Workforce Research Provide the Answer." Health Policy Fellowship, Ohio University College of Osteopathic Medicine, Chicago, IL. Invited lecture.

2010 "Potential Cost Targets for Clinical Integration Systems." 2010 Clinical Integration Forum. The Institute for Clinical Quality & Value. Chicago, IL. Plenary speaker.

2010 "The Changing Health Care Scene and its Impact on Surgical Services" Managing Today's OR Suite, Orlando, FL. Keynote address.

2010 "Quality, Variability & Measurement: Why Is There Variability in Care" ASCO Provider-Payer Initiative. American Society of Clinical Oncologists. Alexandria, VA. Plenary speaker.

2010 "Looking Under the Hood of 'Bending the Cost Curve' of the ACA" Marwood Group. Washington, DC. Plenary speaker.

2010 "Can More Information Improve Health Care? The Dartmouth Atlas of Health Care" Delta Health Alliance Electronic Health Records Summit. Stoneville, MS. Plenary speaker.

2010 "Understanding Unwarranted Variation in Medical Care: Status Report on Pediatrics" Hartenstein Visiting Professor Pediatric Grand Rounds, SUNY Upstate Medical University. Invited lecture.

2010 "Medical Patients with Advanced Cancer: Quality of Care at the End of Life" Moving Beyond Death Panels, New America Foundation. Invited lecture.

2011 "Beneath the Skin of Variation in Health Care Practice: Insights from the Dartmouth Atlas of Health Care" The 3rd Annual Frances J. Storrs, M.D. Lectureship, Oregon Health & Science University, Portland, OR.

2011 "The Dartmouth Atlas of Health Care: Regional Variation in Orthopedic Procedures" Blue Health Summit, Chicago, IL. Invited Lecture.

2011 "Expanded Scope of Practice: A Response to Demand for Primary Care?" National Health Policy Forum, Washington, DC. Invited Lecture.

2011 "Medicare Data Analytics: A View From the Dartmouth Atlas of Health Care" Massachusetts Health Data Consortium. Boston, MA. Invited Lecture.

2012 "How Many Physicians Do We Need? For the U.S. and for My Health Care System" Advocate Lutheran General Hospital, Park Ridge, Il, Invited Lecture.

2012 "Is Rationing Health Care in Our Future? And How Can the Physician Workforce Research Provide the Answer" Captain James A. Lovell Federal Health Care Center Grand Rounds, North Chicago, Il, Invited Lecture.

2012 "What is Primary Care and How Should We Measure Primary Care Capacity?" Data and Methods for Measuring the Supply, Demand, Distribution, and Adequacy of the Primary Care Workforce, Health Resources and Services Administration, Bethesda, MD. Invited talk.

2012 "What Makes Us Do It? Beliefs About the Drivers of Unnecessary Care" Avoiding Avoidable Care Conference. Lown Cardiovascular Research Foundation. Cambridge, MA. Invited panelist.

2012 "Improving the Effectiveness of Graduate Medical Education Expansion" Institute of Medicine, Committee on the Governance and Financing of Graduate Medical Education. Washington, DC, Invited panelist.

2013 "Variation in End-of-Life Care in California" California Health Care Foundation, Sacramento, CA, Invited panelist.

2013 "Regional Health Care Capacity and the Case of the Physician Workforce" Location as Destiny: A Conference in Honor of John E. Wennberg, Hanover, NH, Invited paper.

2013 "Changing the Geography of Health Care: The Dartmouth Atlas and Health Care Reform", ESRI Health User Conference, Boston, MA, Keynote address.

2013 "Accelerating Physician Workforce Transformation Through Competitive GME Funding" Health Affairs Conference on Redesigning the Health Care Workforce, Washington, DC.

2013 "Accelerating Physician Workforce Transformation Through Competitive GME Funding" AMA Council on Medical Education The GME Crisis' Impact on Physician Workforce: Are There Any Creative Solutions? Washington, DC.

2014 "Primary Care Service Areas: A Tool for Primary Care Evaluation" HRSA Primary Care Office Conference, Rockville, MD, Plenary session.

2014 "Policy Implications of Mapping Health Care Outcomes" Texas Department of State Health Services, Austin, TX. Special seminar.

2014 "Three Perspectives on End-of-Life Care: Relative Efficiency, Clinical Care, and Public Policy" University of Texas School of Public Health, Houston, TX. Research seminar.

2014 "Improving the Health Workforce Through Graduate Medical Education Reform" Graduate Medical Education Grand Rounds, University of Minnesota. Minneapolis, MN.

2014 "Three Perspectives on End-of-Life Care: Relative Efficiency, Clinical Care, and Public Policy" Yale-New Haven Hospital, Graduate Medical Education noon conference. New Haven, CT.

2014 "Variation in Children's Care. From the Dartmouth Atlas of Children's Health Care of Northern New England" Institute for Child Health Policy, University of Florida, Gainesville, FL. Research seminar.

2015 "Pediatric Health Care Variation: What have we learned & What do we still need to know?" Connecticut Children's Hospital. Pediatric Grand Rounds. Hartford, CT.

2015 "Variation in Health Care Spending: What are the causes? What are the effects?" Johns Hopkins School of Medicine. Baltimore, MD. Medical student course lecture.

2015 "Improving the Identification of Quality and Efficiency in Newborn Care in Texas" The Texas Perinatal Advisory Committee, Austin, TX. Invited talk.

2017 "*Count Every Baby:* The importance of population-based measurement of newborn care" Workshop on Perinatal Practice Strategies, AAP. Scottsdale, AZ. Workshop co-leader with George Little.

2017 "Improving the Identification of Quality and Efficiency in Newborn Care in Texas - Update" The Texas Perinatal Advisory Committee, Austin, TX. Invited talk.

2018 "Who Really Needs NICU Care? Progress with Population-based Cohort Studies" Vermont-Oxford Network Annual Quality Congress, Chicago, IL. Plenary speaker

2018 "Improving the Identification of Quality and Efficiency in Newborn Care in Texas – Final Report" The Texas Perinatal Advisory Committee, Austin, TX. Invited talk.

2019 "Next Steps in Improving the Identification of Quality and Value in Medicaid Newborn Care in Texas" The Texas Collaborative for Healthy Mothers and Babies, Austin, TX. Invited talk

2020 "2019 Dartmouth Atlas of Neonatal Intensive Care Texas Hospital Survey" The Texas Perinatal Advisory Committee, Austin, TX. Invited talk.

2021 "Medical Care Epidemiology: Using health care variation to improve health systems "Uniformed Services University of the Health Sciences (Sept 1, 2021) Preventive Medicine and Biostatistics Seminar. Bethesda, MD Invited talk.

2021 "Medical Care Epidemiology: Background, Methods, and Applications" Institute for Defense Analysis IDA Social Science Analytic Working Group. Falls Church, VA. Invited talk.

2022 "Is Capacity Destiny" Green Mountain Care Board. Montpelier, VT. Invited talk.

2023 "Removing the Blindfolds from Newborn Care: Results from Population-based Cohort Studies" University of Pennsylvania, Department of Obstetrics, Invited talk at research seminar,

2023 "The Texas NICU Project" The Texas Collaborative for Healthy Mothers and Babies. Austin, Texas, Invited talk

2024 "Health care in four countries: Common goals – different approaches?" Osher talk, Lebanon, NH

International (since 2005)

2005 "Health Care Financing: Implications for the Medical Workforce" Ninth Annual International Medical Workforce Conference, Melbourne, Australia. Plenary speaker.

2007 "Does Children's Health Care Need Life Support? The Implications of an Aging Population on Pediatric Medical Care." Invited Lecture at 110th Annual Meeting of the Japanese Pediatric Society. Kyoto, Japan.

2007 "Improving the Return on Our Investment in the Medical Workforce." Ontario Ministry of Health Management Committee. Toronto.

2007 "Are More Pediatricians Linked to Better Health Outcomes for Children?" Harry Bain PSI Foundation Grand Rounds Lecture at Toronto's Hospital for Sick Children. Toronto.

2008 "Will Patients Benefit From Medical Education Expansion?" Research seminar, London School of Economics. London, UK.

2008 "Unwarranted Variation in Medical Care in the U.S.: Causes and Solutions" Research seminar, Institute for Social and Preventive Medicine, University of Bern, Switzerland.

2008 "Variation in End of Life Care in the U.S. A Biopsy of the Health Care System." Research seminar, Centre for Health Economics. University of York. York, United Kingdom.

2008 "Variation in End of Life Care in the U.S. A Biopsy of the Health Care System." Research seminar, National Audit Office, London, UK.

2009 "Variation in Health System Performance: The Key to Successful U.S. Health Care Reform" Institut de recherche et Documentation en économie d la santé, Paris, France. Research seminar.

2010 "Variation of Supply and cost: Higher quality with fewer resources" NHS Confederation Policy Salon, London, UK. Policy seminar.

2010 "The Dartmouth Atlas of Healthcare: Measuring and Improving Health Care." American University, Pristina, Kosovo. Invited lecture.

2010 "The Dartmouth Atlas of Healthcare: Measuring and Improving Health Care." University Clinical Center of Kosovo, Pristina, Kosovo. Invited lecture.

2010 "Are There Opportunities For Efficiency Gains in the Physician Workforce" Twelfth Annual International Medical Workforce Conference, New York, NY. Invited paper.

2010 "Variation in Health System Performance in the U.S. -- Learning to do more with less. Dalla misurazione dei risultati alla gestione della performance in Sanità: esperienze regionali a confronto. Organizzato dal Laboratorio Management e Sanità Scuola Superiore Sant'Anna di Pisa. Rome, Italy. Invited paper.

2010 "Medical Care Variation Research -- Historic and Methodological Overview" Wennberg International Collaborative. London School of Economics and Political Science. London, UK. Invited paper.

2011 "Measuring and Interpreting Variation: Tools to Improve Health Care" CEO Forum, Canadian Health Services Research Foundation. Montreal, Quebec. Invited Lecture.

2011 "Concepts and Theories in Medical Practice Variation" Wennberg International Collaborative. London School of Economics and Political Science. London, UK. Invited paper

2012 "The Wennberg International Collaborative" & "From Theory to Health Care Improvement: The Dartmouth Atlas of Health Care." Meeting of the Expert Group on Medical Practice Variations. OECD. Paris. Invited Speaker.

2012 "Patient Attribution: Areas, Hospitals, or What?" & "Restarting Measurement of Children's Health Care in the U.S" Wennberg International Collaborative. London School of Economics and Political Science. London, UK. Invited paper

2012 "Medical Practice Variation: Warranted (good) and Unwarranted (bad) Variation" 3rd Conference IQ Healthcare, UMC St. Radboud, Nijmegen

2012 "Measuring Variation. A Tool to Transform Health Care" Evaluating and Managing Geographic Variation in Health Care and Outcomes in Italy and the USA: The Case of Cardiovascular Disease. Scuola Superiore Sant'Anna, Pisa, Italy

2013 "Three Perspectives on End-of-Life Care: Research Methods, Clinical Care, and Public Policy" University of Bern, Research seminar.

2013 "The Dartmouth Atlas of Health Care – What's New?" University of York, United Kingdom, Research seminar.

2013 "The Wennberg International Collaborative" & "Medical Practice Variation in the U.S. Medicare Population." Meeting of the Expert Group on Medical Practice Variations. OECD. Paris. Invited Speaker.

2013 "Improving Health Care and Health with Information and Advocacy" KoSana Project Pristina, Kosovo, Workshop leader.

2013 "The Changing Epidemiology of Low Variation Conditions: Hip Fractures and Colectomy" Wennberg International Collaborative, Hanover, NH. Research talk.

2013 "Three Perspectives on End-of-Life Care: Research Methods, Clinical Care, and Public Policy" Institute of Epidemiology and Health, University College London, Research seminar.

2014 "Policy and Medical Practice Implications of Mapping Health Care Outcomes" Association of Austrian Social Security Institutions, Vienna, Austria, Keynote Speaker

2014 "Patient Involvement in Treatment Decisions and Practice Variation", Research Strategy Seminar on Patient Involvement. Aarhus University, Denmark, Keynote Speaker.

2014 "Little Patients, Big Problems, Unanswered questions. Neonatal Intensive Care in the 21st Century" Wennberg International Collaborative, London, UK. Research talk.

2014 "Variation in Health Care: Source of Innovation or Symptom of Waste" Challenges and Responsibilities for the Future: How to Relaunch the Public Healthcare System. Management eSanita, Scuola Superiore Sant'Anna, Pisa, Italy. Keynote Speaker.

2015 "Early Findings: Regional Variation of Newborn Special Care in the U.S." Wennberg International Collaborative, London, UK. Research talk.

2015 "Improving Health Care Value: Medical Care Epidemiology, Maps, and Variation" Central American Research Initiative. San Jose, Costa Rica. Keynote address.

2015 "Why We Should Be Concerned About Regional Variation in Health Care" Wennberg International Collaborative Spring Policy Meeting, Berlin, Germany. Keynote address.

2015 "From data analysis to health policy: What can we learn from the Dartmouth Atlas?" The Capital Club. Berlin, Germany. Invited presentation.

2015 "Improving Health Care Value: Medical Care Epidemiology, Maps, and Variation" Research Network for Patient Safety and Quality in Health. Odense, Denmark. Keynote address.

2016 "Geographic Variation in Health Care and the Impact on Health Care Reform" Research and Policy Meeting, College of Medicine in Seoul National University. Seoul, South Korea. Keynote address

2016 "The Importance of Measuring Variation at the Regional Level: The USA Experience" Reducing Avoidable Variation in Healthcare: A Goal for Regional Strategies and Actions. The Wennberg International Collaborative Spring Policy Meeting. Pisa, Italy. Keynote address.

2016 "International Frontiers in Tracking Variation in Health Care" International Society of Quality in Healthcare, Annual meeting. Tokyo, Japan. Keynote address.

2017 "Population-based utilization of newborn special care in the U.S." University of Leicester. Leicester, UK. Research seminar.

2017 "Achievements of Health Services Research in the United States" Versorgungsforschungin der Schweiz – wie weiter?, Swiss Academy of Medical Sciences & Swiss National Science Foundation. Bern, Switzerland. Keynote address.

2017 "Population-based Variation in Health Care and the Impact on Health Care Reform" Norwegian Health Directorate. Oslo, Norway. Invited briefing.

2017 "Removing the Blindfolds from Neonatal Intensive Care Through Population-Based Epidemiology" Senter for klinisk dokumentasjon og evaluering (SKDE), Helse Nord, Trømso, Norway.

2018 "Medical Practice Variation in the U.S. A Tool for Change" Why and How to Reduce Variations in Medical Practice? Paths for Improving Care Quality. IRDES. Plenary Speaker. Paris, France

2018 "The Korean Health Care Atlas Project: Challenges in Getting the Best Care in the Right Place." NHIS Health Atlas Symposium. Seoul, Korea. Keynote address.

2018 "Improving Value in Neonatal Intensive Care" Research seminar. Assan Medical Center, Seoul, Korea. Invited presentation.

2018 Who Cares? Wennberg International Collaborative Spring Policy Meeting: Opening Welcome; Plenary Discussant (Bridging the Gap Between Health Care Research and Policy); Research presentation (Relationship between neonatal care intensity and outcomes across Texas hospitals), Zurich, Switzerland.

2019 "The Impact of Regional Health Services Research on Health and Health Care: A Pediatrician's View" Zi Health Services Research Congress, Berlin, Germany, Keynote lecture.

2020 "Measuring Health Care from the Beginning to the End of Life" Ludwig-Maximilians Universität München, Munich, Germany. Invited presentation.

2022 "Welcome to the NRP 74 Synthesis Conference" Swiss National Science Foundation, "Smarter Health" Luzerne, Switzerland. Invited presentation.

2022 "Is Capacity Destiny" Wennberg International Collaborative, Luzerne, Switzerland. Invited presentation.

2022 "Causes of Regional Variation in Health Care: Do Norway and the U.S. differ?" Helsetjenesteforsknings- konferansen 2022 (Health Services Research Conference). SKDE & Nasjonalt nettverk for helsetienesteforsknina. Tromsø, Norway. Keynote address.

2023 "The Dartmouth Atlas of Health Care" Wennberg International Collaborative, Pisa Italy

2024 Santa'Anna, Institute for Advanced Studies, Pisa – Visiting Professor:
"Measuring health care variation from the beginning to the end of life -A family story"
Medical students and faculty
"Causes of unwarranted variation in health care: Research, clinical, and policy challenges"
Doctoral students
"Causes and Remedies in Health Care Variation; A population-based perspective from medical care epidemiology"
Guest lecturer in course, InnnovACtion in Health care: strategies, performance, and data management

2024 "Public Reporting of U.S. Health System Performance: Progress and pushback" Wennberg International Collaborative, Oslo Norway

Congressional Testimony

2009 "Linking Workforce Policy to Health Care Reform" Senate Finance Committee, March 12

2013 "Beyond Reducing Hospital Readmissions: The Thirty-First Day" Senate Special Committee on Aging Hearing on "Strengthening Medicare for Today and the Future" February 27.

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Peer Reviewed Journals

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Goodman DC, Barff RA, Fisher ES. Geographic barriers to child health services in rural northern New England: 1980 - 1989. *Journal of Rural Health*. 1992;8:106-113.

Wennberg J, Goodman DC, Nease R, Keller R. Finding equilibrium in U.S. Physician Supply. *Health Affairs*. 1993;12:89-103.

Kronick R, Goodman DC, Wennberg J, Wagner E. The marketplace in health care reform: The demographic limitations of managed competition. *New England Journal of Medicine*. 1993;328:148-152.

Goodman DC, Fisher ES, Gittelsohn A, Chang C, Fleming C. Why are children hospitalized? The role of non-clinical factors in pediatric hospitalizations. *Pediatrics.* 1994;93:896-902.

Bailey AJ, Sargent JD, Goodman DC, Freeman J, Brown MJ. Poisoned landscapes: The epidemiology of environmental lead exposure in Massachusetts children 1990-1991. *Social Science in Medicine*. 1994;39:757-766.

Sargent JD, Brown MJ, Freeman JL, Bailey A, Goodman DC, Freeman DH. Childhood lead poisoning in Massachusetts communities: Its association with sociodemographic and housing characteristics. *American Journal of Public Health*. 1995;85:528-534.

Goodman DC, Fisher ES, Bubolz TA, Mohr JE, Poage JF, Wennberg JE. Benchmarking the U.S. physician workforce: An alternative to needs or demand based planning. *JAMA*. 1996; 276:1811-1817.

Goodman DC, Green GR. Assessment tools: Small area analysis. *American Journal of Medical Quality.* 1996;11:S12-14.

Goodman DC, Littenberg B, O'Connor GT, Brooks JG. Theophylline in acute childhood asthma: A meta-analysis of its efficacy. *Pediatric Pulmonary.* 1996;21:211-218.

Goodman DC, Fisher ES, Stukel TA, Chang C. The distance to community medical care and the likelihood of hospitalization: Is closer always better? *American Journal of Public Health.* 1997;87:1144-1150.

Goodman DC, Little, GA. General pediatrics, neonatology, and the laws of diminishing returns. (invited commentary) *Pediatrics*, 1998;102:396-399.

Weinstein JN, Goodman DC, Wennberg JE. The orthopedic workforce: Which rate is right? *The Journal of Bone and Joint Surgery* 1998;80-A:327-330.

Goodman DC, Stukel TA, Chang C. Trends in pediatric asthma hospitalization rates: Regional and socio-economic differences *Pediatrics.* 1998;101:208-213.

Goodman DC, Lozano P, Stukel TA, Chang C, Hecht J. Has asthma medication use in children become more frequent, more appropriate, or both? *Pediatrics* 1999;104:187-194.

Goodman DC, Wennberg J. Maps and health: The challenges of interpretation. *The Journal of Public Health Management and Practice* 1999;5:xiii-xvii.

Goodman DC, Fisher ES, Little GA, Stukel TA, Chiang-hua Chang. The uneven landscape of newborn intensive care services: Variation in the neonatology workforce. *Effective Clinical Practice* 2001;4:143-149.

Goodman DC, Fisher ES, Little GA, Stukel TA, Chiang-hua Chang. Are neonatal intensive care resources located where need is greatest? Regional variation in neonatologists, beds, and low birth weight newborns , *Pediatrics* 2001;108:426-431.

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Goodman DC, Fisher ES, Little GA, Stukel TA, Chang C, Schoendorf, KS. The Relation between the availability of neonatal intensive care and neonatal mortality. *The New England Journal of Medicine* 2002; 346: 1538-1544.

Thompson LA, Little GA, Goodman DC. Is more neonatal intensive care better? Insights from a cross-national comparison of reproductive care, *Pediatrics*.2002; 109:1036-1043.

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Allen-Ramey FC, Duong PT, Goodman DC, Sajjan SG, Nelsen LM, Markson LE. Outcomes of patients treated with fluticasone propionate or montelukast sodium. *Managed Care Interface* 2003;16(8):30-35.

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Birkmeyer JD, Siewers AE, Marth N, Goodman DC. Regionalizing high risk surgery and implications for patient travel times. *JAMA*. 2003;290:2703-2708.

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Shipman SA, Lurie JD, Goodman DC. The general pediatrician: Projecting future workforce supply and requirements. *Pediatrics.* 2004;113:435-442.

Guagliardo MF, Jablonski KA, Joseph JG, Goodman DC. Do pediatric hospitalizations have a unique geography? *BMC Health Services Research.* 2004;4:2.

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Goodman DC. Twenty-year trends in the regional variation of the physician workforce. *Health Affairs*:W4-67-9, 2004 Jan-Jun.

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