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## James M Whedon

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### Overview

National award-winning, NIH-funded clinical and health services investigator with interests in integrative health care, chiropractic, trauma, healthcare workforce issues, Medicare, accountable care organizations, and health policy. Experience in clinical database development and medical editing. IRB and editorial board member. Licensed chiropractic physician with 25 years clinical experience. Faculty appointments with Southern California University of Health Sciences and The Dartmouth Institute for Health Policy and Clinical Practice.

### Proficiency

*Technical:* STATA, SAS, MS EXCEL, SAS Visual Analytics, Rapid Insight, G-Power, Review Manager, TreeAge, ArcGIS, MS Word, MS PowerPoint;

*Databases:* Medicare administrative data, all-payer claims databases, health system data warehouses, electronic health records, trauma registries, Cochrane, Medline

*Professional:* Doctor of Chiropractic (New Hampshire License Number 669-1002)

### Professional Experience

*2015-present:* Director of Health Services Research, Southern California University of Health Sciences, Whittier, CA (SCU)

*2008-present:* Instructor, The Dartmouth Institute for Health Policy & Clinical Practice, Geisel School of Medicine, Dartmouth College; Hanover, NH

*2014-2015:* Health Care Research Analyst, Accountable Care Organization Support, Dartmouth-Hitchcock Medical Center; Lebanon, NH (DHMC)

*2009-2014:* Health Services Investigator, Trauma Program, DHMC

*2004-2015:* Partner, Clear and Calm PLLC, Grantham, NH

*2003-2009:* Trauma Registrar, Trauma Program, DHMC

*1998-2002:* Managing Editor, GlobalHealth2000, Inc., Newton, MA

*1989-2015:* Chiropractic physician in private practice, MA and NH

### Academic Preparation

MS in Clinical and Health Services Research; Dartmouth College, Hanover, NH

DC (Doctor of Chiropractic)\*; College of Chiropractic, Logan University, St. Louis, MO

BS in Human Biology; Logan University, St. Louis, MO

AS in Selected Studies; University of Southern Maine

*\* Not currently licensed in any state*

### Postgraduate Research Training

*Introduction to the Use of Medicare Data for Research;* Research Data Assistance Center (ResDAC)

*Administrative Healthcare Data and SAS* (course and hands-on programming workshop); The

SAS Institute

*Advanced Research Methods Seminar*; The Dartmouth Institute for Health Policy & Clinical Practice

*Research Methods in Complementary and Integrative Medicine*; The Institute for Integrative Health, University of Maryland School of Medicine

*Faculty Development Seminar*; The Dartmouth Institute for Health Policy & Clinical Practice

*Annual Research Intensive, Patient-Centered Comparative Effectiveness*; Oregon Health Sciences University; Portland, Oregon

### **Honors & Awards**

Jerome F. McAndrews DC Memorial Research Fund Award; NCMIC Foundation

Research Paper Award – Association of Chiropractic Colleges Research Conference

Magna cum Laude, Logan University

Logan Scharnhorst Scholarship, Logan University

Summa cum Laude, University of Southern Maine

### **Professional Memberships and Advisory Boards**

*2017-present*: Co-Chair, Policy Committee, Integrative, Complementary, and Traditional Health Practices Section, American Public Health Association

*2016* Poster Committee Co-chair, Annual Conference of the Academy of Integrative Health and Medicine

*2016-present*: Associate Editor, Journal of Alternative and Complementary Medicine

*2016*: Panelist, “Consensus Process to Develop 'Best Practices' Document for Chiropractic Care for Older Adults”

*2015-present*: Charter Member, Academy of Integrative Health & Medicine

*2015-present*: Member, Editorial Board, Alternative Therapies in Health and Medicine

*2015-present*: Member, Advisory Team, Project for Integrative Health and the Triple Aim

*2016-present*: Co-chair; *2015-present*: Member. Research Working Group, Academic Collaborative for Integrative Health (ACIH; formerly ACCAHC)

*2013-present*: Member, Committee for the Protection of Human Subjects, Dartmouth College

*2013-present*: Faculty Advisor, Student Interest Group for Complementary and Integrative Medicine, Geisel School of Medicine at Dartmouth

*2012*: Panelist, “Chiropractic 2025”, Institute for Alternative Futures

*2011*: Panelist, Role of Chiropractic Care in Health Promotion, Disease Prevention & Wellness

*2010-present*: Member, American Public Health Association

*2008-present*: Member, Editorial Board, Natural Medicines

### **Research Funding**

2018- 2021 Association between cervical spinal manipulation and cervical artery dissection in older and younger Medicare populations. National Institutes of Health.

2018- 2020 Spinal Manipulation Services vs. Prescription Drug Therapy for Long-term Care of Aged Medicare Beneficiaries with Chronic Low Back Pain. National Institutes of Health.

2018- 2019 Whedon J (PI) Association between Utilization of Chiropractic Services and Use of Prescription Opioid Analgesics among Medicare Beneficiaries with Chronic Low Back Pain. The Anton B. Burg Foundation

2018 Whedon J (PI) Expenditures for Chiropractic Services. Fulcrum Health, Inc.

2017-2019 Whedon J (PI) Atlas of Integrative Health. Council on Chiropractic Guidelines and Practice Parameters

2016-2017 Whedon J (PI), Impact of Chiropractic Care on Use of High Risk Drugs and Risk of Adverse Drug Events. Council on Chiropractic Guidelines & Practice Parameters

2016- Implementation of a collaborative practice-based research program. Sullivan S (PI) Life University (Co-investigator).

2014-2017 Whedon J (PI), Primary Spine Clinician. NCMIC Foundation.  
2011-2013 Weeks WB (PI), Another look at the budget neutrality of the Medicare chiropractic services demonstration. NCMIC Foundation. (Co-investigator)  
2009-2014 Whedon J (PI), Utilization and Safety of Chiropractic Care in Older Adults. The Bernard Osher Foundation/NCCAM CAM Practitioner Research Career Development Award (K01). National Center for Complementary and Alternative Medicine, National Institutes of Health.

### Peer Reviewed Publications

[In Press] Kizhakkeveetil A, **Whedon J**, Schmalzl L, Hurwitz E. Yoga for Quality of Life in Individuals with Chronic Disease: A Systematic Review. *Alternative Therapies in Health and Medicine*.  
**Whedon J**. RE: Insurance Reimbursement for Complementary Healthcare Services. [Invited Commentary] JEBIM. 2018 Vol XX: 1-3.  
**Whedon J**, Snider P, Whedon S. Re: "Integrative Medicine and the Imperative for Health Justice" by Chao and Adler (J Altern Complement Med 2018; 24:101-103). J Altern Complement Med. 2018 Jun; 24(6):611-612. PMID: 29851506.  
**Whedon J**, Goehl J, Toler, A, Kazal L. Association between Utilization of Chiropractic Services for Treatment of Low Back Pain and Risk of Adverse Drug Events. J Manipulative Physiol Ther. 2018 Jun; 41(5):383-388.  
**Whedon J**, Goehl J, Toler, A, Kazal L. Association between Utilization of Chiropractic Services for Treatment of Low Back Pain and Use of Prescription Opioids. J Altern Complement Med. 2018 Jun; 24 (6):552-556.  
**Whedon J**, Tosteson T, Kizhakkeveetil A, Kimura M. Insurance Reimbursement for Complementary Healthcare Services. J Altern Complement Med. 2017 Apr;23(4):264-267.  
**Whedon J**, Punzo M, Dehen R, Menard M, Fogel D, Olejownik J. Relevance of Quality Measurement to Integrative Healthcare in the United States. J Altern Complement Med. 2016 Sep 23. PMID: 27660896.  
**Whedon JM**, KizhakkeVeetil A, Rugo N, Kieffer K. Bioidentical Estrogens for Depressive Symptoms in Menopause: A Systematic Review. J Womens Health. 2016 Sep 7. PMID 27603786.  
Weeks W, Leninger B, **Whedon JM**, Lurie J, Tosteson TD, Swenson R, O'Malley AJ, Goertz CM. The association between use of chiropractic care and costs of care among older Medicare patients with chronic low back pain and multiple comorbidities. J Manipulative Physiol Ther. 2016 Feb 19. PMID: 26907615  
Weeks WB, Tosteson TD, **Whedon JM**, Leininger B, Lurie JD, Swenson R, Goertz CM, O'Malley. Comparing Propensity Score Methods for Creating Comparable Cohorts of Chiropractic Users and Nonusers in Older, Multiply Comorbid Medicare Patients With Chronic Low Back Pain. J Manipulative Physiol Ther. 2015 Nov 4.  
**Whedon JM**, Kimura, MN, Phillips, RB. Racial Disparities in Use of Chiropractic Services under Medicare in Los Angeles County, CA. J Evid Based Complementary Altern Med. 2015 Sep 8.  
**Whedon J**, Song Y, Mackenzie T, Phillips R, Lukovits T, Lurie J. Risk of Stroke Following Chiropractic Spinal Manipulation in Medicare B Beneficiaries Aged 65-99 with Neck Pain. J Manipulative Physiol Ther. 2015 Jan 14. PMCID: PMC4336806  
**Whedon J**, Mackenzie T, Phillips R, Lurie J. Risk of Traumatic Injury Associated with Chiropractic Spinal Manipulation in Medicare Part B Beneficiaries Aged 66-99. Spine. 2014 Dec. PMCID: PMC4326543  
**Whedon JW**, Hernandez RA, Beaver TA, Burchard KW. Paradoxical Thromboembolism Following Blunt Lower Extremity Trauma: A Management Strategy to Prevent Additional Sequelae Where Anticoagulation is Contra-indicated. The American Surgeon. Am Surg. 2014 Nov; 80(11):E309-11.  
**Whedon JM**, Song Y, Davis MA. Trends in the use and cost of chiropractic spinal manipulation

under Medicare Part B. *Spine J.* 2013 Nov; 13(11): 1449–1454.

**Whedon J**, Von Recklinghausen F. An Exploratory Analysis of Transfer Times in a Rural Trauma System. *J Emerg Trauma Shock.* 6(4) Oct-Dec 2013: 259-263.

**Whedon JM**, Goertz CM, Lurie JD, Stason WB. Beyond Spinal Manipulation: Should Medicare Expand Coverage for Chiropractic Services? A Review and Commentary on the Challenges for Policy Makers. *J Chiropr Humanit.* 2013 Dec; 20(1): 9-18.

Weeks WB, **Whedon JM**, Toler A, Goertz CM. Medicare's Demonstration of Expanded Coverage for Chiropractic Services: Limitations of the Demonstration and an Alternative Direct Cost Estimate. *J Manipulative Physiol Ther.* 2013 Oct; 36(8):468-81.

**Whedon JM**, Rugo NA, Lux K. Challenges of Withdrawal from Chronic Antidepressant Medication: A Healing Odyssey. *Explore: the Journal of Science and Healing.* 2013 Mar; 9(2):108-11.

Smith M, Davis MA, Stano M, **Whedon JM**. Aging Baby Boomers and the Rising Cost of Chronic Back Pain: Secular Trend Analysis of Longitudinal Medical Expenditures Panel Survey (MEPS) Data. *J Manipulative Physiol Ther* 2013 Jan;36(1):2-11. PMID: PMC3596008

Davis MA, MacKenzie TA, Coulter ID, **Whedon JM**, Weeks WB. The United States Chiropractic Workforce: An Alternative or Complement to Primary Care? *Chiropractic & Manual Therapies* 2012, 20:35. PMID: 23171540

**Whedon JM** and Song Y. Racial disparities in the use of chiropractic care under Medicare. *Alternative Therapies in Health and Medicine.* 2012, 18(6): 20-26. PMID: PMC3590798

**Whedon JM**, Song Y, Davis MA, Lurie JD. Use of chiropractic spinal manipulation in older adults is strongly correlated with supply. *Spine.* 2012, 37(20): 1771-7. PMID: PMC3414681

**Whedon JM**, Song Y. Geographic variations in availability, use and cost of chiropractic under Medicare. *J Manipulative Physiol Ther.* 2012, Feb; 35(2):101-9. PMID: PMC3278567

Davis MA, **Whedon JM**, Weeks WB. Complementary and Alternative Medicine Practitioners and Accountable Care Organizations: The Train Is Leaving the Station. *The Journal of Alternative and Complementary Medicine.* August 2011, 17(8): 669-674. PMID: PMC3142629

**Whedon JM**. Did Inclusion of Illinois Bias the Medicare Chiropractic Services Demonstration? *Topics in Integrative Health Care.* 2010, Vol. 1(2). ID: 1.2004

**Whedon JM**, Davis MA, Phillips RB. Implications and Limitations of Appropriateness Studies for Chiropractic. *Journal of Chiropractic Humanities.* November 2010, (17)1: 40-46.

**Whedon JM**, Davis MA. Medicare part B claims for chiropractic spinal manipulation, 1998 to 2004. *Journal of Manipulative and Physiologic Therapeutics.* 2010 Oct; 33 (8): 558-61. PMID: 210362774.

**Whedon J**, Fulton G, Herr C, Von Recklinghausen F. Trauma Patients without a Trauma Diagnosis: the Data Gap at a Level One Trauma Center. *The Journal of Trauma, Injury, Infection and Critical Care.* October 2009, Volume 67, Number 4: 822-828.

**Whedon J**, Glassey D. Cerebrospinal Fluid Stasis and its Clinical Significance. *Alternative Therapies in Health and Medicine.* 2009 May-Jun; 15 (3): 54-60. PMID: 19472865

**Whedon JM**, Curcio GJ. Chiropractic for Spinal Pain Disorders. *Advanced Emergency Nursing Journal.* October/December 2006; 28(4): 316-323.

**Whedon JM**, Quebada PB, Roberts DW, Radwan TA. Spinal epidural hematoma after spinal manipulative therapy in a patient undergoing anticoagulant therapy: a case report. *Journal of Manipulative and Physiologic Therapeutics.* 2006 Sep; 29(7): 582-5. PMID: 16949949.

**Whedon J**. Reduction of tinnitus by spinal manipulation in a patient with presumptive rotational vertebral artery occlusion syndrome: a case report. *Alternative Therapies in Health and Medicine.* 2006 May-Jun; 12(3):14-7.

## Letters

**Whedon J**, Snider P. "RE: *Integrative Medicine and the Imperative for Health Justice*. [Letter] *J Altern Complement Med.* Volume 24, Number 6, 2018, pp. 611–612

**Whedon JM**, Bove GM, Davis MA. Critique of review of deaths after chiropractic, 5. (Letter). Int J Clin Pract. 2011 Jan; 65(1):105.

**Whedon JM**. Lumbar Epidural Hematoma after Chiropractic Manipulation for Lower-back Pain: Case Report. Neurosurgery. (Letter). Volume 63(2), August 2008.

**Whedon J**. A Better Way to Screen for Cerebrovascular Insufficiency. Dynamic Chiropractic. (Letter). 2006 Sep; 24(18).

### **Reports & White Papers**

William B. Weeks, **James M. Whedon**, Andrew Toler, Christine Goertz, William B. Stason. Costs of Chiropractic Services in the U.S. – Re-analysis of The Demonstration of Expanded Coverage of Chiropractic Services under Medicare. Submitted to: The Honorable Kathleen Sebelius; Secretary, United States Department of Health and Human Services, Washington, DC. August 6, 2012.

**Whedon J**, Ilgenfritz R. Integration of Chiropractic Services in the Spine Center at Dartmouth-Hitchcock Medical Center. A Plan for Quality Improvement. 2012.

Matthew A. Davis, Louis A. Kazal, Jr., Rand S. Swenson, **James M. Whedon**. Dartmouth Integrative Health: A Patient Centered Initiative. Program Development Committee, Dartmouth Integrative Health. Dartmouth-Hitchcock Medical Center, Lebanon, NH. January, 2010.

### **Presentations**

**Whedon JM**. Simon M, Donovan-Batson C, Smith L, Kizhakkeveetil A. The Atlas of Integrative Healthcare (Workshop): Annual Conference, Integrative Medicine and the Underserved. Washington, DC. June, 2018.

**Whedon JM**. Non-pharmacologic treatments for pain: safe and effective alternatives to opioid analgesics (Platform presentation). Ninth Annual Native American Healthcare Conference. Anaheim, CA. June, 2018.

**Whedon JM**. Association between Utilization of Chiropractic Services for Treatment of Low Back Pain and Use of Prescription Opioids (Poster): International Conference on Integrative Medicine and Health. Baltimore, MD. May, 2018.

**Whedon JM**. Association between Utilization of Chiropractic Services for Treatment of Low Back Pain and Use of Prescription Medications. (Invited Speaker) American Chiropractic Board of Sports Physicians. San Diego, CA. April 2018

**Whedon JM**. Values-based Healthcare Education. (Invited Speaker) Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Oct., 2017.

**Whedon JM**. An Unlikely Partnership in Integrative Health. Platform Presentation: 145th Annual Meeting of the American Public Health Association. Atlanta, GA; Nov, 2017.

Snider P, **Whedon JM**, Dirks S., et al. Making the Intangible, Tangible – The Hard and Hopeful Work of Transforming the Culture of an Integrative Health Sciences University. Poster Presentation: Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Oct., 2017.

**Whedon JM**. An Unlikely Partnership in Integrative Health. Poster Presentation: Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Oct., 2017.

**Whedon JM**. Lessons from Chiropractic Medicine: Using Fewer High-Risk Drugs for Low Back Pain. Platform Presentation: 28<sup>th</sup> Annual Meeting, Academy of Integrative Pain Management. San Diego, CA; Oct., 2017

**Whedon JM**. Association between utilization of chiropractic services for low back pain and use of prescription opioids. Poster Presentation. National Press Club. Washington, DC; March 2017.

**Whedon JM**. Association between utilization of chiropractic care for low back pain and risk of adverse drug events. Platform Presentation: DC 2017. Washington, DC; March 2017.

**Whedon JM**. Association between utilization of chiropractic services for low back pain and use of prescription opioids. Platform Presentation: DC 2017. Washington, DC; March 2017.

**Whedon JM**. Association between utilization of chiropractic care for low back pain and risk of

adverse drug events: Preliminary results of analysis of New Hampshire insurance claims data. Poster Presentation. Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Nov., 2016.

**Whedon JM.** An Atlas of Integrative Healthcare in the United States. Poster Presentation. Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Nov., 2016.

**Whedon JM.** Association between utilization of chiropractic services for low back pain and use of prescription opioids: Preliminary results of a health claims study. Platform Presentation: 144th Annual Meeting of the American Public Health Association. Denver, CO; Nov, 2016; Poster Presentation. Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Nov., 2016.

**Whedon JM.** Health Insurance Coverage for Integrative Healthcare Services in New Hampshire: Evidence of Unwarranted Variation? Poster Presentations: 144th Annual Meeting of the American Public Health Association. Denver, CO; Nov, 2016; Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. Nov., 2016.

**Whedon JM.** Who Needs Quality Measurement for Integrative Healthcare? International Congress on Integrative Medicine and Health. Las Vegas, NV. May 2016.

**Whedon JM.** Unwarranted Variation in Insurance Payments for Integrative Healthcare Services. International Congress on Integrative Medicine and Health. Las Vegas, NV. May 2016.

**Whedon JM,** KizhakkeVeettil A, Rugo N, Kieffer K. Bioidentical Estrogens for Depressive Symptoms in Menopause: A Systematic Review. Academy of Integrative Health & Medicine Annual Conference. San Diego, CA. October, 2015.

Dehen R, Fogel D, Punzo M, **Whedon JM.** If I Ran the Zoo: Quality Measures in Accountable Care and the Fit with Integrative Health and Medicine. Project for Integrative Health and the Triple Aim; The Center for Optimal Integration. Jun 17, 2015.

**Whedon JM,** Kimura, MN, Phillips, RB. Racial Disparities in Use of Chiropractic Services under Medicare in Los Angeles County, California. World Federation of Chiropractic's 13th Biennial Congress. Athens, Greece; May 2015. (Poster Presentation)

**Whedon JM,** White D, Zbehlik A, Levy D, Kowalski M. Population-based interdisciplinary approaches to osteoarthritis: from evidence to practice. A joint-organized session by Chiropractic Health Care and Aging and Public Health. Panel Moderator. 141st Annual Meeting of the American Public Health Association. Boston, MA; Nov, 2013.

**Whedon JM,** Song Y, Lurie J. Likelihood of vertebrobasilar stroke following chiropractic spinal manipulation in US adults aged 65-99 with neck pain. Platform Presentation. 141st Annual Meeting of the American Public Health Association. Boston, MA; Nov, 2013.

Johnson C., **Whedon JM,** Weeks J, Nixdorf D. Shifting Incentives and Team Care: Is Chiropractic Engaging the Right Collaborations to Co-Lead Medicine Toward a Whole Person Health Model? Member, Closing Panel Presentation. Association of Chiropractic Colleges Research Agenda Conference. Washington, DC; Mar, 2013.

**Whedon JM.** Trends in the use and cost of chiropractic spinal manipulation under Medicare Part B. Platform Presentation. Association of Chiropractic Colleges Research Agenda Conference. Washington, DC; Mar, 2013.

**Whedon JM.** Another Look at the Budget Neutrality of the Medicare Chiropractic Services Demonstration: Preliminary Findings. Platform Presentation. 140th Annual Meeting of the American Public Health Association. San Francisco, CA; Oct, 2012.

**Whedon JM,** Goertz C, Stason W. Should Medicare Expand Allowable Chiropractic Services? Poster Presentation. International Research Congress on Integrative Medicine and Health. Portland, Oregon; May, 2012. Published online: BMC Complement Altern Med. 2012; 12(Suppl 1): P304. 2012 June 12. PMID: PMC3373334

**Whedon JM,** Song Y. Geographic Variations in Chiropractic Utilization under Medicare. Platform Presentation. 139th Annual Meeting of the American Public Health Association. Washington, DC; Oct, 2011.

**Whedon JM.** Re-analysis of budget neutrality of the Medicare Chiropractic Services

Demonstration. Platform Presentation. 138th Annual Meeting of the American Public Health Association. Denver, CO; Nov, 2010.

**Whedon JM**, Davis MA. An Analysis of Medicare Part B Claims for Spinal Manipulation, 1998-2004. Platform Presentation. Association of Chiropractic Colleges Research Agenda Conference. Las Vegas, NV; Mar, 2010.

**Whedon JM**, Fulton G, Herr C, Von Recklinghausen F. Trauma Patients without a Trauma Diagnosis. Poster Presentation. 12th Annual New England Regional Trauma Conference. Worcester, MA; Sep, 2007.

**Whedon JM**, Henriques H, Sutton J, Von Recklinghausen, F. Early Involvement of Trauma Service is Associated with Reduced Mortality. Poster Presentation. 86th Annual Meeting of the New England Surgical Society, Burlington, VT; Sep, 2007.

Sutton JE, **Whedon JM**, Higgins J. Comparison of seat belt use and injury outcomes between Vermont and New Hampshire. Platform Presentation. Annual Meeting of The New England Surgical Society. Bretton Woods, NH; Sep, 2005.

Kispert P, Sutton J, Burchard K, Henriques H, Higgins J, **Whedon JM**, Steinberg P. Delays in interfacility transport of trauma patients in a rural environment. Platform Presentation. Annual Meeting of The New England Surgical Society, Bretton Woods, NH; Sep, 2005.

**Whedon JM**, Hayde T, Tepe R. A comparison of sacral evaluation findings between the Logan basic x-ray marking system and the Gillet Test. Platform Presentation. Annual Meeting of the American Public Health Association. Boston, MA; Sep, 1988.