

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Jon D. Lurie, MD, MS

eRA COMMONS USER NAME (credential, e.g., agency login): JLURIE

POSITION TITLE: Professor of Medicine, Orthopaedics, and of The Dartmouth Institute for Health Policy & Clinical Practice (TDI)

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
Princeton University, Princeton, NJ	BS	1985	Geological Engineering
Stanford University School of Medicine, Palo Alto, CA	MD	1992	Medicine
CECS, Dartmouth Medical School, Hanover, NH	MS	1997	Evaluative Clinical Sciences

A. PERSONAL STATEMENT

I have extensive experience in clinical and health services research, specifically in the design and conduct of large multi-center randomized clinical trials. I currently collaborate on several large clinical trials in low back pain and spinal disorders including VERDICT (Veterans Response to Dosage in Chiropractic Therapy) as part of the NIH-DoD-VA Pain Management Collaboratory, IMPACT-LBP as part of the NIH Health Care Systems Research Collaboratory, and the Multi-Centered Prospective Study of Quality of Life in Adult Scoliosis. I have served as the Principal Investigator on the AHRQ-funded Randomized ActiveStep Comparative Effectiveness Trial and the Dartmouth Orthopaedic Resident Clinician/Researcher Program (T32 AR049710), Co-Investigator on the Spine Patient Outcomes Research Trial (SPORT), Co-Director of the NCMRR-funded Center for Translation of Rehabilitation Engineering Advances and Technology (TREAT), and Associate Director of the Multidisciplinary Clinical Research Center in Musculoskeletal Diseases at Dartmouth. In addition, I serve as Chair of the Dartmouth-Hitchcock IRB and serve as a safety officer and a DSMB member on several NIH funded studies. I therefore bring extensive methodological, administrative, operational, and regulatory experience to this important project. Ongoing and recently completed projects that I would like to highlight include:

1UH3AT010622-01

Goertz/Goode/Lurie (Co-PIs)

NCCIH; NIH Health Care Systems Research Collaboratory

07/15/2021-06/30/2022

IMPACT-LBP: Implementation of the American College of Physician guideline for low back pain using doctors of chiropractic & physical therapists at the initial point of patient contact: A cluster randomized trial.

UH3AT009761

Long (PI) Role: Co-Investigator

NIH-DoD-VA Pain Management Collaboratory

01/01/2019-12/31/2023

VERDICT (Veterans Response to Dosage in Chiropractic Therapy)

Citations:

1. **Lurie JD**, Zagaria AB, Ellis L, Pidgeon D, Gill-Body KM, Burke C, Armbrust K, Cass S, Spratt KF, McDonough CM. Surface Perturbation Training to Prevent Falls in Older Adults: A Highly Pragmatic, Randomized Controlled Trial. *Phys Ther*. 2020; Jan 30. pii: pzaa023. doi: 10.1093/ptj/pzaa023. PMID:31998949 PMCID: PMC7498164

2. Long CR, Lisi AJ, Vining RD, Wallace RB, Salsbury SA, Shannon Z, Halloran S, Minkalis A, Corber L, Shekelle PG, Krebs EE, Abrams TE, **Lurie JD**, Goertz CM. Veteran response to dosage in chiropractic therapy (VERDICT): study protocol of a pragmatic randomized trial for chronic low back pain. *Pain Medicine*, 2020 Dec 12;21(Suppl 2):S37-S44. doi: 10.1093/pm/pnaa289. PMID: PMC7734654
3. Kelly MP, **Lurie JD**, Yanik EL, CI, Baldus CR, Boachie-Adjei O, Buchowski JM, Carreon LY, Crawford III CH, Edwards II C, Errico TJ, Glassman SD, Gupta MC, Lenke LG, Lewis SJ, MD, Kim HJ, Koski T, Parent S, Schwab FJ, Smith JS, Bridwell KH. Operative versus Nonoperative Care for Adult Symptomatic Lumbar Scoliosis. *J Bone Joint Surg Am*. 2019 Feb 20;101(4):338-352. doi: 10.2106/JBJS.18.00483. PMID: 30801373 PMID: PMC6738555
4. **Lurie JD** and Morgan TS. Pros and cons of pragmatic clinical trials. *Journal of Comparative Effectiveness Research*. Jan 2013, Vol. 2, No. 1, Pages 53-58. doi: 10.2217/cer.12.74. PMID:24236521

B. Positions, Scientific Appointments, and Honors

Positions and Scientific Appointments

- 2022 NIH Study Section: NINDS HEAL K12 Review Panel member (ZNS1 SRB-R 04 S)
- 2022 Safety Officer NIAMS grant UH2AR076731
- 2021 NIH Study Section: NINDS HEAL U19 Review Panel Ad Hoc member (ZNS1 SRB-R 03)
- 2021 NIH Study Section: NIAMS AMS Ad Hoc member
- 2021 NIH Study Section: NIAMS AMS Member Conflict SEP
- 2020 NIH Study Section: Special Emphasis Panel ZNS1 SRB-A (37)
- 2020 NIH Study Section: NIAMS T32 Review Panel
- 2019 - Chair, Dartmouth-Hitchcock Health IRB
- 2019 – Associate Section Chief of Hospital Medicine for Scholarship and Academics at DHMC
- 2019 NIH Study Section: BACPAC SEP (RFA-AR-19-027)
- 2019 NIH Study Section: HEAL SEP (RFA-NS-19-021)
- 2017 – 23 DSMB Member and Safety Officer – NIAMS grant U01AR069869
- 2017 NIH Study Section: ZAR1 KM (M1) 1
- 2016 - 18 High Value Healthcare Collaborative Scientific Review Board member
- 2016 NIH Study Section: ZRG1 SBIB-Q 58
- 2016 - 20 NIH Study Section: NIAMS AMS Standing member
- 2016 – Professor of Medicine, Orthopaedics, and of The Dartmouth Institute (TDI)
- 2015 NIH Study Section: NIAMS AMS and AMSC Member conflict Panels
- 2014 – 19 Section Chief of Hospital Medicine at DHMC
- 2014 - 15 NIH Study Section: NIAMS AMSC Special Grants Review Panel (1/year)
- 2013 – 18 Comparative Effectiveness Core Director: New England Pediatric Device Consortium (NEPDC)
- 2013 - 15 High Value Healthcare Collaborative Spine Core Team- Co-Chair
- 2013 NIH Study Section: NIAMS Clinical Trials AMSC member conflict Panel
- 2013 NIH Study Section: NIAMS Outcomes Instruments Panel ZAR1 XZ (M1)
- 2012 - 15 High Value Healthcare Collaborative Delivery Science Team- Co-Chair
- 2012 AHRQ PCOR K12 – Executive Leadership Committee
- 2012 - 17 Cochrane Back Review Group Associate Editorial Board
- 2012 NIH Study Section: PROMIS Special Emphasis Panel ZAR1 CNR (M1)
- 2012 – 16 Dartmouth-Hitchcock Program Lead for the High Value Healthcare Collaborative
- 2011 - 15 ISSLS Regional Representative: Eastern US.
- 2011 - 15 DSMB Member– University of Washington LESS Study (AHRQ #R01 HS19222-01)
- 2011 NIH Study Section: NIAMS Clinical Trials Special Emphasis Panel
- 2011 - 14 NIH Study Section: NIAMS R03 Special Emphasis Panel (2-3/year)
- 2011 – 18 Co-Director: Multi-Disciplinary Clinical Research Center in Musculoskeletal Disease (MCRC)
- 2011 – 16 Associate Professor of Medicine, Orthopaedics, and of The Dartmouth Institute (TDI)
- 2010 – 20 Co-Director: Center for Translation of Rehabilitation Engineering Advances and Technology
- 2010 - 20 Member, Dartmouth College Conflict of Interest Committee
- 2009 - 14 Safety Officer: NIAMS Grant 1-R03-AR056265-01A
- 2009 NIH Study Section: NIAMS Ancillary Studies RFA's
- 2009 Boston International Low Back Pain Forum X: local organizing committee
- 2008 – 18 Director, Clinical Trials Unit. The Dartmouth Institute for Health Policy & Clinical Practice

2008 - 13 Member, DSMB - Minimally Invasive Knee Replacement Outcomes (MIKRO) Study
 2007 Member: AMA PCPI/NCQA Spinal Stenosis Measurement Workgroup
 2006 - Member, Dartmouth Committee for the Protection of Human Subjects
 2006 Panelist: Medicare Coverage Advisory Committee on spinal fusion
 2005 - 11 Associate Professor of Medicine and of Community and Family Medicine
 2005 Panelist: "Considering Usual Medical Care in Clinical Trial Design: Scientific and Ethical Issues"
 2002 - International Society for Study of the Lumbar Spine Member
 2001 - 05 Assistant Professor of Medicine and of Community and Family Medicine
 1999 - 14 Staff Physician, The Spine Center, Dartmouth Hitchcock Medical Center
 1999 - 01 Assistant Professor of Medicine, Dartmouth Medical School
 1996 - 99 Outcomes Research Fellow, White River Junction VA, White River Junction, VT
 1995 - 99 Staff Physician, Veterans Affairs Hospital, White River Junction, VT
 1995 - 96 Chief Medical Resident, Dartmouth-Hitchcock Medical Center, Lebanon, NH
 1992 - 95 Internal Medicine Resident, Dartmouth-Hitchcock Medical Center, Lebanon, NH

Honors

2016 ISSLS Clinical Prize Paper
 2014 Kappa Delta/OREF Clinical Research Award
 2007 Outstanding Paper – ISSLS Annual Meeting June 10-14, Hong Kong
 2006 Outstanding Paper – ISSLS Annual Meeting June 13-17, Bergen Norway
 1985 Sigma Xi, The Scientific Research Society
 1985 Tau Beta Pi, Engineering Honor Society

B. Contributions to Science

- 1) I have a longstanding interest in improving care and medical decision making for patients with lumbar spine disorders including low back pain, herniated discs, spinal stenosis and degenerative spondylolisthesis. As a co-investigator on the Spine Patient Outcomes Research Trial (SPORT) since its inception, I have helped to design, execute, and interpret a large multi-center pragmatic trial evaluating the comparative effectiveness of surgery compared to usual non-operative care in randomized and concurrent observational cohorts at 13 centers across the country, with Dartmouth serving as the coordinating center. Notable achievements of SPORT include: 1) enrollment of 2,505 patients in randomized and observational cohorts for IDH, DS, and SpS; 2) development of successful trial management systems and advanced informatics support; 3) retention in active follow-up of 75% of living members of the original cohorts; 4) creation of dissemination tools for the public to support preference-sensitive treatment decisions (e.g., shared decision-making videos and web-based tools); and 5) more than 75 peer-reviewed publications in prominent medical journals, with extensive coverage and discussion in the lay press. I additionally have worked on clinical trials evaluating spine surgery in Adult Symptomatic Lumbar Scoliosis.
1. Kelly MP, **Lurie JD**, Yanik EL, CI, Baldus CR, Boachie-Adjei O, Buchowski JM, Carreon LY, Crawford III CH, Edwards II C, Errico TJ, Glassman SD, Gupta MC, Lenke LG, Lewis SJ, MD, Kim HJ, Koski T, Parent S, Schwab FJ, Smith JS, Bridwell KH. Operative versus Nonoperative Care for Adult Symptomatic Lumbar Scoliosis. *J Bone Joint Surg Am*. 2019 Feb 20;101(4):338-352. doi: 10.2106/JBJS.18.00483. PMID:PMC6738555
2. Weinstein JN, **Lurie JD**, Tosteson TD, Hanscom B, Tosteson AN, Blood EA, Birkmeyer NJ, Hilibrand AS, Herkowitz H, Cammisa FP, Albert TJ, Emery SE, Lenke LG, Abdu WA, Longley M, Errico TJ, Hu SS. Surgical versus nonsurgical treatment for lumbar degenerative spondylolisthesis. *N Engl J Med*. 2007; 356(22):2257-70. PMID/PMCID: 17538085 / 2553804;
3. Weinstein JN, **Lurie JD**, Tosteson TD, Skinner JS, Hanscom B, Tosteson AN, Herkowitz H, Fischgrund J, Cammisa FP, Albert T, Deyo RA. Surgical vs nonoperative treatment for lumbar disk herniation: the Spine Patient Outcomes Research Trial (SPORT) observational cohort. *JAMA*. 2006;296(20):2451-9. PMID/PMCID: 17119141 / 2562254;
4. Birkmeyer NJ, Weinstein JN, Tosteson AN, Tosteson TD, Skinner JS, **Lurie JD**, Deyo R, Wennberg JE. Design of the Spine Patient outcomes Research Trial (SPORT). *Spine (Phila Pa 1976)*. 2002;27(12):1361-72. PMID/PMCID: 12065987 / 2922028;

- 2) In addition to extensive investigation of spine surgery, I have been extensively involved in comparative effectiveness research evaluating a number of non-pharmacologic interventions including spinal manipulation and physical therapy for patients with LBP. These evaluations have included innovative pragmatic clinical trial designs and I have extended this work in pragmatic evaluation of complex non-pharmacologic interventions to other areas such as physical therapy interventions for fall prevention.
 1. Long CR, Lisi AJ, Vining RD, Wallace RB, Salsbury SA, Shannon Z, Halloran S, Minkalis A, Corber L, Shekelle PG, Krebs EE, Abrams TE, **Lurie JD**, Goertz CM. Veteran response to dosage in chiropractic therapy (VERDICT): study protocol of a pragmatic randomized trial for chronic low back pain. *Pain Medicine*, 2020 Dec 12;21(Suppl 2):S37-S44. doi: 10.1093/pm/pnaa289. PMCID:PMC7734654
 2. **Lurie JD**, Zagaria AB, Ellis L, Pidgeon D, Gill-Body KM, Burke C, Armbrust K, Cass S, Spratt KF, McDonough CM. Surface Perturbation Training to Prevent Falls in Older Adults: A Highly Pragmatic, Randomized Controlled Trial. *Phys Ther*. 2020; Jan 30. pii: pzaa023. doi: 10.1093/ptj/pzaa023. PMCID: PMC7498164
 3. Thackeray A, Fritz JM, **Lurie JD**, Zhao W, Weinstein JN. Nonsurgical Treatment Choices by Individuals with Lumbar Intervertebral Disc Herniation in the United States: Associations with Long-term Outcomes. *Am J Phys Med Rehabil*. 2016 Dec 31. doi: 10.1097/PHM.0000000000000685. PMCID: PMC5494009
 4. **Lurie JD**, Zagaria AB, Pidgeon DM, Forman JL, Spratt KF. Pilot comparative effectiveness study of surface perturbation treadmill training to prevent falls in older adults. *BMC Geriatrics* 2013. <http://www.biomedcentral.com/1471-2318/13/49>; PMCID: PMC3661337

- 3) In addition to understanding the comparative effectiveness of different treatments for lumbar spinal disorders, I have pursued a specific interest in the appropriate use and interpretation of advanced imaging, particularly MRI, in spinal disorders. This work has included detailed reliability studies for the interpretation of various features on MRI, which I directed along with an interdisciplinary collaborative group including neuro-radiologists, musculoskeletal radiologists, and spine surgeons. The reliable findings were evaluated in predictive models to identify features that best predicted treatment response.
 1. **Lurie JD**, Moses RA, Tosteson AN, Tosteson TD, Carragee EJ, Carrino JA, Kaiser JA, Herzog RJ. Magnetic resonance imaging predictors of surgical outcome in patients with lumbar intervertebral disc herniation. *Spine (Phila Pa 1976)*. 2013 Jun 15;38(14):1216-25. PMID: 23429684; PMCID: PMC3683115.
 2. **Lurie JD**, Doman DM, Spratt KF, Tosteson AN, Weinstein JN. Magnetic resonance imaging interpretation in patients with symptomatic lumbar spine disc herniations: comparison of clinician and radiologist readings. *Spine (Phila Pa 1976)*. 2009; 34(7): 701-5. PMID/PMCID: 19333103 / 2754781;
 3. **Lurie JD**, Tosteson AN, Tosteson TD, Carragee E, Carrino JA, Kaiser J, Sequeiros RT, Lecomte AR, Grove MR, Blood EA, Pearson LH, Weinstein JN, Herzog R. Reliability of readings of magnetic resonance imaging features of lumbar spinal stenosis. *Spine (Phila Pa 1976)*. 2008;33(14):1605-10. PMID/PMCID: 18552677 / 2754786;
 4. **Lurie JD**, Tosteson AN, Tosteson TD, Carragee E, Carrino JA, Kaiser J, Sequeiros RT, Lecomte AR, Grove MR, Blood EA, Pearson LH, Herzog R, Weinstein JN. Reliability of magnetic resonance imaging readings for lumbar disc herniation in the Spine Patient Outcomes Research Trial (SPORT). *Spine (Phila Pa 1976)*. 2008;33(9):991-8. PMID/PMCID: 18427321 / 2745940;

- 4) Another area that I have actively pursued in my scientific career is shared decision-making and the understanding and measurement of patient expectations and how they affect treatment outcomes. We have looked at specific measures of expectation, evaluated factors that predicted those expectations, and how expectations affect self-reported outcomes with treatment. I have incorporated these findings into efforts to improve the delivery of information to patients facing a decision, such as whether or not to have spine surgery, in order to achieve informed decisions that are congruent with patients' values.
 1. Moulton H, Tosteson TD, Zhao W, Pearson L, Mycek K, Scherer E, Weinstein JN, Pearson A, Abdu WA, Schwarz S, Kelly M, McGuire K, Milam A, **Lurie JD**. Considering Spine Surgery: A web-based calculator for communicating estimates of personalized treatment outcomes. *Spine (Phila Pa 1976)*. 2018 Dec 15;43(24):1731-1738. PMID: 29877995 PMCID: PMC6279474
 2. Kearing S, Berg SZ, **Lurie JD**. Can Decision Support Help Patients with Spinal Stenosis Make a Treatment Choice? A Prospective Study Assessing the Impact of a Patient Decision Aid and Health

Coaching. Spine (Phila Pa 1976). 2016 Apr;41(7):563-7. doi: 10.1097/BRS.0000000000001272. PubMed PMID: 27018897; PubMed Central PMCID: PMC4810456.

3. **Lurie JD**, Spratt KF, Blood EA, Tosteson TD, Tosteson AN, Weinstein JN. Effects of viewing an evidence-based video decision aid on patients' treatment preferences for spine surgery. Spine (Phila Pa 1976). 2011 Aug 15;36(18):1501-4. doi: 10.1097/BRS.0b013e3182055c1e. PMID: 21358485; PMCID: PMC3115521.
4. **Lurie JD**, Berven SH, Gibson-Chambers J, Tosteson T, Tosteson A, Hu SS, Weinstein JN. Patient preferences and expectations for care: determinants in patients with lumbar intervertebral disc herniation. Spine (Phila Pa 1976). 2008;33(24):2663-8. PMID/PMCID: 18981962 / 2768262;
- 5) Along with the efforts described above to answer important patient level questions, I have had an interest in informed decision-making at the policy level and pursued several research projects aimed at understanding variations in care for musculoskeletal problems. These have involved Medicare claims and other large database analyses looking at differences in the approaches to and outcomes of treatment of a variety of musculoskeletal disorders including back pain, joint replacements, and fracture care.
 1. Austin DC, Torchia MT, **Lurie JD**, Jevsevar DS, Bell JE. Mapping the Diffusion of Technology in Orthopaedic Surgery: Understanding the Spread of Arthroscopic Rotator Cuff Repair in the United States. Clin Orthop Relat Res. 2019 Nov;477(11):2399-2410. doi: 10.1097/CORR.0000000000000860. PMCID: PMC6903858
 2. Martin BI, **Lurie JD**, Farrokhi FR, McGuire KJ, Mirza SK. Early effects of Medicare's Bundled Payment for Care Improvement (BPCI) program for lumbar fusion. Spine (Phila Pa 1976). 43(10):705-711, May 15, 2018. PMCID: PMC5839918
 3. McDonough CM, Colla CH, Carmichael D, Tosteson AN, Tosteson TD, Bell J-E, Cantu RV, **Lurie JD**, Bynum JP. Falling Down on the Job: Evaluation and treatment of fall risk among older persons with upper extremity fragility fractures. Phys Ther. 2017 Mar 2. doi: 10.1093/ptj/pzx009. [Epub ahead of print] PMID:28340130
 4. **Lurie JD**, Bell JE, Weinstein J. What rate of utilization is appropriate in musculoskeletal care? Clin Orthop Relat Res. 2009 Oct;467(10):2506-11. doi: 10.1007/s11999-009-0889-4. Epub 2009 May 19. Review. PMID: 19452236; PMCID: PMC2745463.

Complete List of Published Work in MyBibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/jon.lurie.1/bibliography/public/> (copy and paste link into browser window)