

## CURRICULUM VITAE

**NAME:** Jon D. Lurie, MD, MS

**ADDRESS:**

Home  
65 Bean Road  
Plainfield, NH 03781

OFFICE

Section of Hospital Medicine  
DHMC, 1 Medical Center Dr.  
Lebanon, NH 03756

### I. EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>DEGREE</u>
1996 - 97	Dartmouth College Center for Evaluative Clinical Sciences	MS
1987 - 92	Stanford University School of Medicine	MD
1985 - 86	Pennsylvania State University	Non-degree
1981 - 85	Princeton University	BSE

### II. POSTDOCTORAL TRAINING

<u>DATES</u>	<u>INSTITUTION</u>	<u>SPECIALTY</u>
1996 - 99	VA Faculty Development Fellowship Veterans Affairs Medical Center White River Junction, VT	Outcomes Research
1995 - 96	Chief Medical Resident, DHMC, Lebanon, NH	Internal Medicine
1993 - 95	Residency, DHMC, Lebanon, NH	Internal Medicine
1992 - 93	Internship, DHMC Lebanon, NH	Internal Medicine

### III. PROFESSIONAL DEVELOPMENT ACTIVITIES

<u>DATES</u>	<u>INSTITUTION</u>	<u>TITLE</u>	<u>CREDITS</u>
3/26/15 – 10/8/15	Dartmouth Hitchcock	The Bill and Sue Conaty Institutes for Transformational Health Care Leadership	N/A

### IV. ACADEMIC APPOINTMENTS

<u>DATES</u>	<u>INSTITUTION</u>	<u>TITLE</u>
2016 – present	Geisel School of Medicine at Dartmouth	Professor of Medicine, Orthopaedics, and of The Dartmouth Institute
2011 – 2016	Geisel School of Medicine at Dartmouth	Associate Professor of Medicine, Orthopaedics, and of The Dartmouth Institute

2009 – 2011	Geisel School of Medicine at Dartmouth	Associate Professor of Medicine, Community and Family Medicine, and of The Dartmouth Institute
2005 – 2009	Geisel School of Medicine at Dartmouth	Associate Professor of Medicine and of Community and Family Medicine
2001 – 2005	Geisel School of Medicine at Dartmouth	Assistant Professor of Medicine and of Community and Family Medicine
1999 – 2001	Geisel School of Medicine at Dartmouth	Assistant Professor of Medicine
1995 – 99	Geisel School of Medicine at Dartmouth	Instructor of Medicine

**V. INSTITUTIONAL LEADERSHIP ROLES:**

<b><u>DATES</u></b>	<b><u>INSTITUTION</u></b>	<b><u>TITLE</u></b>
2019 – present	Dartmouth SYNERGY (Clinical and Translational Science Institute)	Director of Hub Liaison Team
2019 – present	Dartmouth-Hitchcock	Associate Section Chief for Scholarship and Academics
2016 – 2019	Dartmouth-Hitchcock	Section Chief of Hospital Medicine
2014 – 2016	Dartmouth-Hitchcock	Interim Section Chief of Hospital Medicine
2012 – 2016	Dartmouth-Hitchcock	Program Lead for the High Value Healthcare Collaborative
2012 – 2018	Multi-Disciplinary Clinical Research Center in Musculoskeletal Disease at Dartmouth	Associate Director
2008 – present	The Dartmouth Institute for Health Policy and Clinical Practice	Director of Clinical Trials Unit

**VI. LICENSURE AND CERTIFICATION (IF APPLICABLE):**

<b><u>DATE</u></b>	<b><u>LICENSURE/CERTIFICATION</u></b>
2016	Recertification, The American Board of Internal Medicine
2006	Recertification, The American Board of Internal Medicine

1996                   Diplomate, The American Board of Internal Medicine  
 1994                   New Hampshire Medical License #9320  
 1993                   Diplomate, National Board of Medical Examiners

**VII. HOSPITAL APPOINTMENTS (IF APPLICABLE):**

<u>DATES</u>	<u>INSTITUTION</u>	<u>POSITION/TITLE</u>
1999 – present	Mary Hitchcock Memorial Hospital Lebanon, NH	Staff Physician
1995 – 99	Veterans Affairs Hospital White River Junction, VT	Staff Physician
1995 – 99	Mary Hitchcock Memorial Hospital Lebanon, NH	Affiliate Staff
1995 – 97	New London Hospital New London, NH	Outpatient/ ER Staff

**VIII. OTHER PROFESSIONAL POSITIONS (NON-DARTMOUTH):**

<u>DATES</u>	<u>INSTITUTION</u>	<u>POSITION/TITLE</u>
2017 - present	Spinol	Advisory Medical Board
2017	NIAMS Grant UO1- AR069869-01A	Safety Officer
2015	French Ministry of Health	Grant Reviewer
2014 - present	National Institute for Sports Science and Safety (NISSSS)	Board Member/Secretary
2014	Research Council of Norway	Grant Reviewer
2012 - 2017	NewVert	Clinical Advisory Board
2012 - 2015	FzioMed	Scientific Advisory Board
2009	Sanofi-Aventis Pharmaceuticals	Scientific Advisory Board
2009	Research Competitiveness Program American Association for the Advancement of Science (AAAS)	Grant Reviewer
2009	Research Grants Council of Hong Kong	Safety Officer
2009 - 2014	NIAMS Grant 1-R03-AR056265-01A	Clinical Advisor
2008 - 2014	Foundation for Informed Medical Decision Making	Expert Panelist
2008	Blue Distinction Centers for Spine Surgery, Blue Cross Blue Shield	Shared Decision Making Consultant
2006	Pacific Business Group on Health	Scientific Advisory Board
2004	Ortho-McNeil Pharmaceuticals	Consultant/Content Expert
2003 - 2004	myexpertdoctor.com	Research Advisory Board Member
2003	Centocor	Low Back Pain Advisory Board
2003	Pfizer/Pharmacia	

**IX. TEACHING ACTIVITIES:**

**A. UNDERGRADUATE (COLLEGE) EDUCATION**

<u>DATES</u>	<u>INSTITUTION</u>	<u>COURSE TITLE</u>	<u>ROLE</u>	<u>HOURS/YEAR</u>
2004 - 2011	Dartmouth College	Bio81/Bio8	Teacher – Mock Clinical Study 1	2hrs/session 3 session/year

**B. GRADUATE EDUCATION**

List classes taught for Ph.D. or Masters students

**CLASSROOM TEACHING:**

<u>DATES</u>	<u>INSTITUTION</u>	<u>COURSE TITLE</u>	<u>ROLE</u>	<u>HOURS/YEAR</u>
2019	Southern California University of Health Sciences	Introduction to Spine Care Research	Lecturer	2hr/yr
2014	Geisel/ DHMC	MD/PHD Program: The Spine Patient Outcomes Research Trial	Lecturer	1 hr/yr
2010 - present	TDI Masters Program	ECS 177, 178, and 179: MS Research Capstone	Co-Director, Lecturer, Small Group Leader	60 hrs/yr
2008	TDI Masters Program	MiniCourse: Randomized Clinical Trials	Course Directory (personally taught 75% of sessions)	12 hrs/yr
2007 - 2011	Geisel/ DHMC	MD/PHD Program: Randomized Clinical Trials	Lecturer	1 hr/yr
2007 - 2009	TDI Masters Program	ECS10: Introduction to Health and Human Disease	Course Director (personally taught 50% of sessions)	24 hrs/yr

1999 - 2005	TDI Masters Program	ECS80: Introduction to Clinical Medicine	Course Director (personally taught 50% of sessions)	25 hrs/yr
1998	TDI Masters Program	Epidemiology and Biostatistics 2	Teaching Assistant	35 hrs/yr

### C. UNDERGRADUATE MEDICAL EDUCATION:

#### i. CLASSROOM TEACHING:

<u>DATES</u>	<u>INSTITUTION</u>	<u>COURSE TITLE</u>	<u>ROLE</u>	<u>HOURS/YEAR</u>
2020	Geisel School of Medicine	Ward Skills; Capstone Course	Small Group Facilitator	2 hours
2019	Geisel School of Medicine	Ward Skills; Capstone Course	Small Group Facilitator	2 hours
2018 - present	Geisel School of Medicine	Epidemiology and Biostatistics (GMS1)	Small Group Facilitator	5 hrs/yr
2018 - present	Geisel School of Medicine	Medical Pharmacology	Small Group Facilitator	1.5 hours
2017	Geisel School of Medicine	Ward Skills - Signout	Small Group Facilitator	1.5 hrs
2007- 2008	Geisel School of Medicine	Health, Society and the Physician (GMS4)	Lecturer on "Physician Workforce"	1 hr/yr
2007- 2008	Geisel School of Medicine	Health, Society and the Physician (GMS4)	Lecturer on "Shared Decision Making in Spine Care"	1 hr/yr
2005 - 2014	Geisel School of Medicine	Health, Society and the Physician (GMS4)	Small Group Facilitator	24 hrs/yr
2002 - 2005	Geisel School of Medicine	EBM Lectures – Interdisciplinary Clinical Experience (GMS 3)	Lecturer	7 hrs/yr

2000 - 2002	Geisel School of Medicine	EBM Lectures – Integrated Primary Care Clerkship (GMS 3)	Lecturer	15 hrs/yr
1998 - 2013	Geisel School of Medicine	Problem-based Learning (GMS 2)	Small Group Facilitator	40 hrs/term 1-2 terms/yr
1997 - 1999	Geisel School of Medicine	Epidemiology and Biostatistics (GMS1)	Small Group Facilitator	12 hrs/yr
1997 - 1998	Geisel School of Medicine	Talking with Patients (GMS3)	Small Group Facilitator	2 hrs/yr

## ii. CLERKSHIP TEACHING

<u>DATES</u>	<u>INSTITUTION</u>	<u>COURSE TITLE</u>	<u>ROLE</u>	<u>HOURS/YEAR</u>
2010 - 2011	DHMC	On-Doctoring	Student Preceptor (GMS 1&2)	20 hrs/yr
2005 – present	DHMC	Internal Medicine Sub-Internship (GMS4)	Attending	40 hrs/week 1-2 weeks/year
1999 - present	DHMC	M2: Inpatient Medicine Rotation (GMS3)	Attending	30 hrs/week 2-4 weeks/year

## D. GRADUATE MEDICAL EDUCATION

Inclusive of instruction of residents and fellows during clinical practice

<u>DATES</u>	<u>INSTITUTION</u>	<u>COURSE TITLE</u>	<u>ROLE</u>	<u>HOURS/YEAR</u>
2020	DHMC	DOM Master Educator Rounds	Case Discussant	1 hr x 1
2019	Clinical and Implementation Research Skills Program, DHMC	Basic Clinical Trial Design	Lecturer	0.75 hr
2019	DHMC	GIM PCT Intern Conference – Low Back Pain	Lecturer	1.5 hr

2019	DHMC	DOM Master Educator Rounds	Case Discussant	1 hr x 1
2018	DHMC	DOM Master Educator Rounds	Case Discussant	1 hr x 2
2016	DHMC	GIM PCT Intern Conference – Low Back Pain	Lecturer	1.5 hr
2016	SYNERGY	Advanced Certificate Program	Section Co-Leader	40hrs/yr
2016	DHMC	OB-GYN Resident Conference – Low Back Pain	Lecturer	1 hr
2014	DHMC	IM Resident Noon Conference – Low Back Pain	Lecturer	1 hr
2013	DHMC	GIM Journal Club - Fall Prevention	Lecturer	1 hr
2013	DHMC	OB/GYN Resident Conference – Low Back Pain	Lecturer	1 hr
2013	DHMC	ED Resident Scholarly Project Topic Review/Feed back	Lecturer	1 hr
2011	DHMC	Ortho Core Curriculum – Lumbar Disc Herniation	Lecturer	1 hr
2010	DHMC	OB/GYN Resident Conference – Low Back Pain	Lecturer	1 hr
2008	DHMC	IM Resident Noon Conference – Lumbar and Cervical Disc Syndromes	Lecturer	1 hr
2008	DHMC	GIM PCT Intern Conference – Low Back Pain	Lecturer	1 hr
2007	DHMC	Spine Center Case Conference – Back Pain	Lecturer	1 hr

2007	DHMC	Rheumatology Educational Conference – Acute LBP	Lecturer	1 hr
2006	DHMC	Spine Center Case Conference – Low Back Pain	Lecturer	1 hr
2006	DHMC	GIM Education Conference – Update on the Physician Workforce Debate	Lecturer	1 hr
2006	DHMC	Rheumatology Educational Conference – SI joint Pain syndromes	Lecturer	1 hr
2006	DHMC	IM Resident Noon Conference – Lumbar and Cervical Disc Syndromes	Lecturer	1 hr
2005	DHMC	GIM Educational Conference – “Caveat Lector”	Lecturer	1 hr
2005	DHMC	Spine Center Journal Club – Diagnosing Facet Joint Pain	Lecturer	1 hr
2005	DHMC	Spine Center Case Conference – Fungal Osteomyelitis	Lecturer	1 hr
2004 – present	DHMC	Resident’s Journal Club Didactics: EBM Lecture Series	Lecturer	3 hrs/year
2004 - 2013	DHMC	Residents’ Research Course: Randomized Clinical Trials	Lecturer	1 hr/year
2004 - 2011	DHMC	Pain Fellows Lecture Series: Diagnosing Serious Causes of Back Pain	Lecturer	1 hr/year
2004	DHMC	GIM Educational Conference – Sacroiliac	Lecturer	1 hr



<b>Joint Pain</b>				
2004	DHMC	Spine Center Journal Club - Degenerative Lumbar Spondylolisthesis	Lecturer	1 hr
2003	DHMC	Spine Center Case Conference - "Patient Problem or Problem Patient"	Lecturer	1 hr
2001	DHMC	IM Resident Noon Conference: Low Back Pain	Lecturer	1 hr
1999 - 2004	DHMC	Primary Care Track Internship: Applied EBM Didactic Series	Developed Curriculum and Taught Sessions	10 hrs/yr
1999 – present	DHMC	M2:Inpatient Medicine Rotation	Attending	40 hrs/week 2-4 weeks/yr
1999	DHMC	Resident Noon Conference - Critical Literature Appraisal	Lecturer	1 hr
1998	DHMC	Ambulatory Block Resident Conference - Prevention of Colon Cancer	Lecturer	1 hr
1998	DHMC	Teaching Residents to Teach: The Learning Climate	Small Group Facilitator	2 hrs/yr
1997	Maizuru Municipal Hospital, Maizuru Prefecture, Japan	Visiting Professor of General Internal Medicine/Clinical Epidemiology	Case presentation discussant, EBM Lecturer and Clinical Lecturer	20 hrs/week x 1 month

**X. ADVISING/MENTORING****A. UNDERGRADUATE STUDENTS**

e.g., Dartmouth College Arts and Sciences students

**DATES**                      **STUDENT'S NAME**                      **PROGRAM (e.g., WISP, Presidential Scholar)**

**B. GRADUATE STUDENTS**

<u>DATES</u>	<u>STUDENT'S NAME</u>	<u>PROGRAM NAME</u>	<u>DEGREE</u>
2012	Yulin Hswen	TDI Master's	MPH

**C. MEDICAL STUDENTS**

<u>DATES</u>	<u>STUDENT'S NAME</u>	<u>PROGRAM NAME (if applicable)</u>
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**D. RESIDENTS/FELLOWS**

<u>DATES</u>	<u>MENTEE'S NAME</u>	<u>SPECIALTY</u>
2013 – 2016	Dana Kerr, MD	Emergency Medicine
2013 – 2015	Brendan Higgins MD, MS	Orthopaedics

**E. FACULTY**

<u>DATES</u>	<u>MENTEE'S NAME</u>	<u>SPECIALTY</u>
2014 – present	Ryan Ratts MD, PhD	Medicine/Pediatrics
2014 – present	Brian Lucas, MD	Internal Medicine
2012 – present	Chiang-Hua Cheng, PhD	TDI

**XI. RESEARCH TEACHING/MENTORING**

List trainees for whom you were the primary mentor

**A. UNDERGRADUATE STUDENTS**

e.g., Dartmouth College Arts and Sciences students

<u>DATES</u>	<u>STUDENT'S NAME</u>	<u>PROGRAM (e.g., WISP, Presidential Scholar)</u>
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**B. GRADUATE STUDENTS**

<u>DATES</u>	<u>STUDENT'S NAME</u>	<u>PROGRAM NAME</u>	<u>DEGREE</u>
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2009 - 2014	James Whedon DC	The Bernard Osher Foundation/NCCAM CAM Practitioner Research Career Development Award (K01) Utilization and Safety of Chiropractic Care in Older Adults	MS
2002-2007	Thom Walsh PT, MS	TDI	MS

**C. MEDICAL STUDENTS**

<u>DATES</u>	<u>STUDENT'S NAME</u>	<u>PROGRAM NAME (if applicable)</u>
2016 - 2018	Haley Moulton	Geisel School of Medicine
2016 - 2017	Olivia Sacks	Geisel School of Medicine
2013 - 2015	Robert William Abdu	New University College of Osteopathic Medicine
2008	Ben Snyder	TDI MPH Thesis Advisor
2005 – 2007	David Doman	Geisel School of Medicine
2005	Tom Kesman	Geisel School of Medicine
1998	Michael Ament	Intro to Outcomes Research Visiting 4 <sup>th</sup> Year Medical Student U. of Colo Health Sciences Center

**D. RESIDENTS/FELLOWS/RESEARCH ASSOCIATES**

<u>DATES</u>	<u>STUDENT'S NAME</u>	<u>SPECIALTY</u>
2018	Spencer Trooboff	Vascular Surgery Resident, DHMC
2018	Zach Wanken	Vascular Surgery Resident, DHMC
2017 – present	Dan Austin MD	Orthopaedic Resident, DHMC
2017	Micheal Torchia	Orthopaedic Resident, DHMC
2013 – 2014	Dana Kerr MD	Emergency Medicine Resident
2012 – 2013	Rachel Moses, MD, MPH	Post-Doc Fellow, TDI now a Urology Resident
2011 - 2012	Sara Graves, MD, MS	Orthopaedic Resident, DHMC

2010 – 2017	Benjamin Keeney, PhD	TDI, Orthopaedics
2006 - 2010	Adam Pearson MD, MS	Orthopaedic Resident, DHMC
2007-2008	Patrick Olson, MD, MS	Orthopaedic Resident, DHMC
2007-2008	James Ames, MD, MS	Orthopaedic Resident, DHMC
2007-2008	Scott Faucett, MD, MS	Orthopaedic Resident, DHMC
2005 - 2006	Jason Fanuele	Orthopaedic Resident, DHMC
2005	Caroline Lin MD	Internal Medicine, DHMC
2004-2005	Justin Cummins MD	Orthopaedic Resident, DHMC
2004	Heike Brautigam	Visiting Orthopaedic Resident from Germany
2003	James Slover	Orthopaedic Resident, DHMC
2001	Alicia Zbehlik MD	Internal Medicine, DHMC
1997	David P Miller MD	Internal Medicine, DHMC

**E. FACULTY**

<b><u>DATES</u></b>	<b><u>MENTEE'S NAME</u></b>	<b><u>SPECIALTY</u></b>
2017 – present	Ida Leah Gitajn, MD	Orthopaedics SYNERGY Clinical Research Fellowship
2015 – present	Karen Huyck, MD, PhD, MPH, FACOEM	Occupational Medicine
2014 – present	Eric Henderson, MD	Orthopaedics VA Career Development Award
2012 – present	Brook Martin, PhD	Health Services Research
2012 – present	Chiang-Hua Cheng, PhD	TDI
2011 - present	Adam Pearson, MD, MS	Orthopaedics
2010 - present	Hilary Ryder, MD, MS	Internal Medicine, Geisel/DHMC
2009 – 2015	Marjorie King PhD, ATC, PT	Health and Human Performance
2006 – 2008	John-Eric Bell, MD	Orthopaedics

**XII. COMMUNITY SERVICE, EDUCATION, AND ENGAGEMENT:**

List activities relevant to your professional roles

<u>DATES</u>	<u>INSTITUTION</u>	<u>COURSE TITLE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS/YEAR</u>
2017	DHMC	Topics in Medicine for the DHMC PAs	Lecturer	1 hr/year
2012 – present	Dartmouth SYNERGY	Certificate Program: Individualized Workshops in Translational Science Grantsmanship	Small Group Co-Leader	12 hrs/year
2012 – 2015	Dartmouth SYNERGY	Certificate Program: Introduction to T2 Translational Research Methods	Lecturer	1 hr/year
2011-2013	Franklin Pierce University Physicians Assistant Program	Evidence Based Medicine	Lecturer and Journal Club Facilitator	2 hrs/yr
2008 – 2017	Dartmouth CTO	Introduction to Clinical Research Course	Lecturer	1 hr/session 3 sessions/yr

**XIII. RESEARCH FUNDING:**

For role, list whether you are identified as key personnel on the grant (e.g., PI, Multiple-PI, Co-I, Director, Co-Director). Do not list proposals from which you receive support if you are not identified as key personnel.

**A. Current**

<u>DATES</u> (start and stop)	<u>PROJECT</u> (title/award #)	<u>ROLE</u>	<u>%EFFORT</u>	<u>SPONSOR</u>	<u>ANNUAL DIRECT COSTS</u>
03/01/2020-03/01/2021	Care of patients with Serious infection complicating injection drug use	Co-I	5%	Serious Illness Health Care Delivery Incubator at Dartmouth	
07/01/2019-06/30/2021	Association between cervical spinal manipulation and	Co-PI	15%	NCCIH	\$609,263

10/01/2019-09/30/2020	cervical artery dissection in older and younger Medicare populations Can Baseline Radiographic Findings Guide Surgical Technique Selection for Degenerative Spondylolisthesis	Co-I	No Salary Support	NASS	\$30,000
07/01/2018-06/30/2020	Spinal Manipulation Services vs. Prescription Drug Therapy for Long-term Care of Aged Medicare Beneficiaries with Chronic Low Back Pain	Co-I, Subaward PI	5%	NCCIH	\$99,719 (Dartmouth Sub-award)
02/01/2018 - 01/31/2021	Randomize Everyone: Creating Valid Instrumental Variables for Learning Health Systems	Co-I, Subaward PI	2.5%	PCORI	\$1,047,985(total)
04/01/2018 - 3/31/2023	A Multi-Centered Prospective Study of Quality of Life in Adult Scoliosis II	Co-I, Subaward PI	4.5%	ISSG	\$12,500 (Dartmouth Sub-Award)
01/01/2018-12/31/2023	Chiropractic Care for Veterans: A Pragmatic Randomized Trial Addressing Dose Effects for cLBP	Co-I; Subaward PI	10%	NCCIH	\$26,250 (Dartmouth Sub-Award)
01/01/2018-12/31/2023	Targeting Chronic Pain in Primary Care Settings Using Internal Behavioral Health Consultants	Consultant	25 hours per year	NIH-DoD-VA Collaboratory	\$5000
10/15/2015-06/30/2020	Translation of Rehabilitation Engineering	Multiple-PI	15%	NICHD /NCMRR	\$791,017

Advances and  
Technology 2.0  
(#R24 HD065703;  
Multiple-PI  
Greenwald)

**B. Past**

<u>DATES</u> (start and stop)	<u>PROJECT</u> (title/award #)	<u>ROLE</u> (PI/co-PI)	<u>%EFFORT</u>	<u>SPONSOR</u>	<u>ANNUAL</u> <u>DIRECT COSTS</u>
05/01/2003- 06/30/2019	The Dartmouth Orthopaedics Clinician/Researcher Training Program (#T32AR049710-10)	PI	No Salary Support	NIAMS	\$146,923
07/01/2016- 06/30/2019	Validation of Appropriateness criteria for the surgical treatment of lumbar degenerative spondylolisthesis	Co-I	No Salary Support	OREF	\$49,241
09/16/2013- 08/31/2018	New England Pediatric Device Consortium (P50FD004907; Greenwald, PI)	Co-I	5%	FDA	\$42,224 (Dartmouth Sub- Award)
09/01/2012- 08/31/2018	Multidisciplinary Clinical Research Center: MCRC (P60AR062799 PI- Tosteson)	Associate Director /Co-PI Project 2	25%	NIAMS	\$760,083
9/1/09 – 2/28/17	A Multi-Centered Prospective Study of Quality of Life in Adult Scoliosis (#R01AR055176: PI - Bridwell)	Co-I	5%	NIAMS	\$119,291 (Dartmouth Sub- Award)
09/01/2010- 05/31/2016	Translation of Rehabilitation Engineering Advances and Technology (#R24 HD065703; Multiple-PI Greenwald)	Multiple-PI	10%	NICHD /NCMRR	\$865,205

09/01/2013- 02/28/2015	Effect of Chiropractic on Costs of Medicare Patients with Multiple Comorbidities (#R21AT008287; PI - Weeks)		5%	NCCAM	\$211,501
10/1/09 – 7/31/15	Randomized ActiveStep® Comparative Effectiveness Trial (#R01HS018459)	PI	20%	AHRQ	\$308,382
3/21/11 – 9/29/11	Identifying postoperative clinical predictors of failed back surgery syndrome: A literature review  U.S. Social Security Administration grant #5 RRC08098400-03-00 to the National Bureau of Economic Research as part of the SSA Retirement Research Consortium	Co-I	No Salary Support	NBER	
01/01/10- 12/31/12	Comparative Effectiveness of Treatments for Degenerative Spine Disease (#R01 HS018405; PI - Tosteson)	Co-I	10%	AHRQ	\$233,914
04/01/09- 03/31/14	Mentor Award - Utilization and Safety of Chiropractic Care in Older Adults ((K01AT005092: PI - Whedon)	Primary Mentor	10%	NIH	\$40,000
9/30/09- 9/29/11	Variation in the Safety of Back Pain-Related Surgery (RC1; PI – Mirza)	Co-I	5%	NIAMS	\$314,285
10/1/08- 10/1/09	Randomized Activestep™ Clinical Evaluation: Pilot Study(Greenwald – Multiple PI)	Multiple-PI	No Salary Support	DCCTS: Dartmouth Center for Clinical and Translational Science	\$29,967
1/1/07 – cancelled 4/07	Treatment of Lumbar Spinal Stenosis with X STOP® IPD in Moderately Symptomatic Patients	PI	25%	St Francis Medical Technology Inc. (Award	\$666,417



<u>DATES</u> (start and stop)	<u>PROJECT</u> (title/award #)	<u>ROLE</u> (PI/co-PI)	<u>%EFFORT</u>	<u>SPONSOR</u>	<u>ANNUAL DIRECT COSTS</u>
11/1/06 – 9/1/07	Procedure Volumes and Outcomes of Board-Certified and Non-Board-Certified Orthopaedic Surgeons	PI	No Salary Support	American Board of Orthopaedic Surgery	\$83,808
4/1/03 – 3/31/08	Prognostic Value of Lumbar Spine MRI P60 AR048094 Project 1 (PI - A Tosteson)	Co-I	10%	NIAMS	\$717,273
9/1/02 - 8/31/07	Clinical Decision Making in Low Back Pain 1 K23 AR48138-01	PI	75%	NIAMS	\$134,284
7/4/99- 05/31/15	Low Back Pain: A Multi-Center Clinical Trial	Co-I	10%	NIAMS	\$409,469

cancelled when SFMT bought by Kyphon)

**C. Pending**

<u>DATES</u> (start and stop)	<u>PROJECT</u> (title/award #)	<u>ROLE</u> (PI/co-PI)	<u>%EFFORT</u>	<u>SPONSOR</u>	<u>ANNUAL DIRECT COSTS</u>
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**XIV. PROGRAM DEVELOPMENT**

None

**XV. ENTREPRENEURIAL ACTIVITIES**

None

**XVI. MAJOR COMMITTEE ASSIGNMENTS:**

**National/international**

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
2019	Study Section: NIAMS-BacPac-2019-08 TTM (UH2-UH3)	Member	NIAMS/NIH
2019	Study Section: ZRG1 ETTN A-(90)	Member	CSR/NIH

2017	Study Section: 2018/01 ZAR1 KM (M1) 1	Ad Hoc Member	NIAMS/NIH
2017 - 2021	Data Safety Monitoring Board (DSMB) - PTH (1-34) and Pelvic Fracture Healing: A Randomized Controlled Trial	Member	NIH
2016 – 2020	Study Section: AMS Special Grants Review panel	Standing Member	NIAMS/NIH
2016	Study Section: ZRG1 SBIB-Q (58)	Ad Hoc Member	NIH
2015 - present	Scientific Review Board	Member	High Value Healthcare Collaborative
2015	Study Section: AMS Member Conflict Review Panel	Member	NIAMS/NIH
2015	Study Section: AMCS Review panel	Ad Hoc Member	NIAMS/NIH
2015	Study Section: AMS Special Grants Review Panel	Ad Hoc Member	NIAMS/NIH
2013 – 2015	Spine Core Team	Co-Chair	High Value Healthcare Collaborative
2012 – 2015	Delivery Science Team	Co-Chair	High Value Healthcare Collaborative
2011 - 15	Regional Representative: Eastern US.		ISSLS
2011 – 2014	Data Safety Monitoring Board (DSMB) – University of Washington LESS Study (AHRQ #R01 HS19222-01)	Member	NIH
2014	Study Section: AMS	Ad Hoc	NIAMS/NIH

	Special Grants Review Panel	Member	
2014	Study Section: R03 Special Emphasis Panel X 3	Member	NIAMS/NIH
2013	Study Section: Clinical Trials AMSC member conflict Panel	Member	NIAMS/NIH
2013	Study Section: Special Emphasis Panel	Member	NIAMS/NIH
2013	Study Section: Outcomes Instruments Panel ZAR1 XZ (M1)	Ad Hoc Member	NIAMS/NIH
2012	Expert Panel to establish Appropriateness Criteria for the Treatment of Lumbar Degenerative Spondylolisthesis	Member	Zurich Switzerland
2010	VA Cooperative Studies Program#583 (X-Stop vs. Laminectomy) Planning Committee	Member	Veteran's Administration Cooperative Studies Program
2012	Study Section: PROMIS Special Emphasis Panel ZAR1 CNR (M1)	Member	NIAMS/NIH
2012	Study Section: Clinical Trials AMSC Special Emphasis Panel	Member	NIAMS/NIH
2012	Study Section: R03 Special Emphasis Panel X 2	Member	NIAMS/NIH
2011	Study Section: Clinical Trials Special Emphasis Panel	Member	NIAMS/NIH
2011	Study Section: R03	Member	NIAMS/NIH

Special Emphasis Panel			
2010	Study Section: R03 Special Emphasis Panel	Member	NIAMS/NIH
2010	Study Section: Outcomes Instruments review panel	Ad Hoc Member	NIAMS/NIH
2009	Study Section: Ancillary Studies RFA's	Ad Hoc Member	NIAMS/NIH
2009	PhD Thesis Committee	External Appraiser	University of Toronto (Samuel Bederman Md, MSc
2009	Local Organizing Committee	Member	Boston International Forum X: Primary Care Research on Low Back Pain
2009	Workshop on Chronic Pain Genetics	Invited Panelist	NIDCR/NIH
2007	Spinal Stenosis Measurement Panel	Invited Member	AMA PCPI/NCQA
2006	Medicare Coverage Advisory Committee on spinal fusion	Invited Panelist	CMS
2006	Workforce Symposium	Invited Panelist	American Academy of Orthopaedic Surgery (AAOS)
2003	Workforce Advisory Board	Member	American Academy of Family Practice - The Graham Center

**Regional**

<b><u>DATES</u></b>	<b><u>COMMITTEE</u></b>	<b><u>ROLE</u></b>	<b><u>INSTITUTION</u></b>
2006 – 2009	Planning Committee	Member	Contemporary Issues in Clinical Research Conference
2005	Best Resident presentation and Poster Selection Committee	Chair	SGIM NE Regional Meeting

1995 - 96	Governor's Advisory Committee	Member	New Hampshire Chapter of the American College of Physicians
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**Institutional**

<b><u>DATES</u></b>	<b><u>COMMITTEE</u></b>	<b><u>ROLE</u></b>	<b><u>INSTITUTION</u></b>
2019 – present	D-HH IRB	Chair	Dartmouth-Hitchcock
2019 - present	Knowledge Management Steering Committee	Member	Dartmouth-Hitchcock
2018 – present	Opioid Addiction Treatment Collaborative (OATC)	Inpatient Workgroup Co-chair	DHMC
2016	TDI-DH Research Workgroup	Member	The Dartmouth Institute for Health Policy and Clinical Practice
2015 – 2019	TDI curriculum Committee	Member	The Dartmouth Institute for Health Policy and Clinical Practice
2014	Provost's Inquiry Panel for Research Misconduct	ad hoc Member	Dartmouth College
2013 – present	DH Orthopaedic Faculty Research Guidance Committee	Member	DHMC
2012 – present	DH Orthopaedic Resident Research Committee	Member	DHMC
2012 – 2015	AHRQ PCOR K12 Executive Leadership Committee	Member	Geisel School of Medicine
2010 – 2020	Dartmouth College Conflict of Interest Committee	Member	Dartmouth College
2010 - 2011	Dept of Rheumatology/TDI	Chair	Geisel School of Medicine

Faculty Search Committee			
2010 - present	SYNERGY Pilot Application Review Committee	Member	Geisel School of Medicine
2009 – 2018	DOM Internship Selection Committee	Member	DHMC
2009 – 2010	DHMC Clinical Translational Research Core Advisory Panel	Member	DHMC
2009 – 2010	Dept of Orthopaedic, Statistical Analyst Search Committee	Chair	DHMC
2009	Clinical Trials Infrastructure Project Steering Committee	Member	DHMC
2008 – 2012	Data Safety Monitoring Board Minimally Invasive Knee Replacement Outcomes (MIKRO) Study	Member	DHMC/ Geisel School of Medicine
2008 – 2010	Research Subcommittee of the Information System Steering Committee	Chair	DHMC
2006 – present	Committee for the Protection of Human Subjects	Member	Dartmouth College
2003	Spine Center Scheduling/Access Workgroup	Member	DHMC
2000 – 2002	Department of Medicine Internship Selection Committee Member	Member	DHMC
1997 – 2002	Department of Medicine Internship Advisory Committee	Member	DHMC

1995 – 99	Department of Medicine Education Committee	Member	DHMC
1997 – 99	Policy Oversight Board	Member	DHMC
1995 – 96	Pharmacy and Therapeutics Committee	Member	White River Junction VA Hospital
1995 – 96	Medical Records Committee	Member	White River Junction VA Hospital
1988 – 89	Organizing Committee	Member	Stanford University School of Medicine Health Policy Forum
1988 – 89	Fundraising Committee	Chair	Stanford University School of Medicine Health Policy Forum

**XVII. MEMBERSHIPS, OFFICE AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:**

<u>DATES</u>	<u>SOCIETY</u>	<u>ROLE</u>
2015 – present	Society of Hospital Medicine	Member
2002 – present	International Society for the Study of the Lumbar Spine	Member
1999 – present	American College of Physicians	Member
1999 – present	Society of General Internal Medicine	Member
1994 – 99	American College of Physicians	Associate member
1992 – 99	American Medical Association	Member

**XVIII. EDITORIAL BOARDS:**

<u>DATES</u>	<u>SOCIETY</u>	<u>ROLE</u>
2012 – 2017	Cochrane Back Review Group	Associate Editorial Board
2010 – present	The Spine Journal	Advisor Editorial Board
2011 – present	ISRN Orthopaedics	Editorial Board
2008 – present	Indian Journal of Orthopaedics	Editorial Board- Overseas
1999 – present	Spine	Advisory Editorial Board

**XIX. JOURNAL REFEREE ACTIVITY:**

<u>DATES</u>	<u>JOURNAL NAME</u>
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2015 – present	UpToDate
2011 – present	J of Occupational and Environmental Medicine
2006 – present	Pain
2006 – present	The Spine Journal
2005 – present	Health Expectations
2004 – present	Archives of Physical Medicine and Rehabilitation
2003 – present	Clinical Orthopaedics and Related Research
2001 – present	Annals of Internal Medicine
2000 – present	Preventive Medicine
1999 – present	The Am J Managed Care
1999 – present	J Gen Intern Med
1999 – present	Spine
1999 – 2002	Effective Clinical Practice
1997 – present	N Engl J Med
1997 – present	JAMA

**XX. AWARDS AND HONORS:**

<u>DATE</u>	<u>AWARD</u>
2020	DOM Excellence in Teaching Award (11 <sup>th</sup> )
2019	SBA \$50,000 award to TREAT – Growth Accelerator Fund Competition
2016	ISSLS Clinical Prize Paper
2016	Outstanding Poster – ISSLS Annual Meeting May 14-20, Singapore
2016	SBA \$50,000 award to NEPDC – Growth Accelerator Fund Competition
2015	DOM Excellence in Teaching Award x 2 (9 <sup>th</sup> and 10 <sup>th</sup> )
2014	Kappa Delta/OREF Clinical Research Award
2011	DOM Excellence in Teaching Award (8 <sup>th</sup> )
2010	Best Paper Award – NASS Annual Meeting, Orlando, FL
2009	DOM Excellence in Teaching Award (7 <sup>th</sup> )
2007	Letter of Commendation for quality of reviews–Annals Intern Med
2007	DOM Excellence in Teaching Award x 4 (3 <sup>rd</sup> -6 <sup>th</sup> )
2007	Outstanding Paper – ISSLS Annual Meeting June 10-14, Hong Kong
2006	Letter of Commendation for quality of reviews–Annals Intern Med
2006	DOM Excellence in Teaching Award (2 <sup>nd</sup> )
2006	Outstanding Paper – ISSLS Annual Meeting June 13-17, Bergen Norway
2005	DOM Excellence in Teaching Award (1 <sup>st</sup> )
1985	Sigma Xi, The Scientific Research Society
1985	Tau Beta Pi, Engineering Honor Society
1985	Magna Cum Laude, Princeton University

**XXI. INVITED PRESENTATIONS:**



Indicate with an asterisk (\*) those presentations to which you, individually, were extended an invitation to present

Indicate with a hashtag (#) those presentations that were meetings where you may have presented a poster/talk, but not following a personalized invitation (i.e., at a large society meeting).

Indicate with a carat (^) if the talk/presentation was applicable as a CME activity.

**International (location of the meeting):**

<b><u>DATE</u></b>	<b><u>TOPIC/TITLE</u></b>	<b><u>ORGANIZATION</u></b>	<b><u>LOCATION</u></b>
*12/11/2015	“Clinical outcome in different surgical-techniques of spinal stenosis and degenerative spondylolisthesis”	German Spine Society 10 <sup>th</sup> Annual Meeting	Frankfurt, Germany
*10/5/2007	“The SPORT Study”	International LBP Forum IX	Mallorca, Spain

**National:**

<b><u>DATE</u></b>	<b><u>TOPIC/TITLE</u></b>	<b><u>ORGANIZATION</u></b>	<b><u>LOCATION</u></b>
*^2/13/19	Degenerative Lumbar Spine Disorders: Outcomes and Decision-making	UCSF Orthopaedic Grand Rounds	San Francisco, CA
*^1/17/19	Diagnosis of Spinal Stenosis (Keynote)	Mayo Clinic Advancements in Surgical&Medical Management of the Spine	Kohala Coast, HI
*^1/16/19	Breakfast Roundtable Case Discussions	Mayo Clinic Advancements in Surgical&Medical Management of the Spine	Kohala Coast, HI
*^1/16/19	Degenerative Spondylolisthesis	Mayo Clinic Advancements in Surgical&Medical Management of	Kohala Coast, HI

		the Spine	
*^9/21/2018	Treatment of degenerative lumbar disorders: The SPORT trials, decision-making and outcomes, state of the art	University of Louisville Spine Symposium	Louisville, KY
*5/3/2017	Invited Break-out Group Facilitator	NCMRR: Optimizing the Return on Investment for Federally Funded Medical Devices For Rehabilitation	Rockville, MD
*^4/24/2017	“Patient expectations and decision support strategies in pain care.”	Translational Research Institute on Pain in Later Life Webinar Series	Weill Cornell Medical School, NY, NY
# 10/2016 <i>Presented by Hilary Ryder; Awarded best poster in poster competition.</i>	“Creation and Utilization of an Educational Scorecard to Achieve Educational Mission and Vision”	Academic Alliance of Internal Medicine Assessment	National Harbor, MD
* 7/21/2016	“The convergence of Research, Clinical Care, and QI”	Imploding the Healthcare Educational Paradigm	Arcadia University, Glenside, PA
*^ 3/11/2016	“Geographic Variations in Care”	WCRI Annual Meeting	Boston, MA
#^ 11/19/2015	“Surface Perturbation Training to Prevent Falls in the Elderly”	Gerontological Society of America Annual Meeting	Orlando, FL
* 11/12/2015	“Geographic Variations in Care”	WCRI Webinar	Webinar

#^10/16/2015	“Does Our Current Research Paradigm Improve or Impede the Quality of Care for LBP Patients?”	North American Spine Society Annual Meeting (Symposium)	Chicago, IL
*2/11/2015	“Surface Perturbation Training to Prevent Falls in the Elderly”	Welch Center Grand Rounds	Johns Hopkins, Baltimore, MD
#6/8/2015	Does Our Current Research Paradigm Improve or Impede the Quality of Care for LBP patients?  Workshop co-lead with Kevin Spratt, PhD and Ron Donelson MD, MS	International Society For Study of the Lumbar Spine	San Francisco, CA
*^11/14/2014	Predictors of Outcome for Both Non-Surgical and Surgical Spine Care	ASRA Annual Meeting	San Francisco, CA
*^11/13/2014	Surgery for Spine Conditions: What can we learn from the Spine Patient Outcomes Research Trials?	ASRA Annual Meeting	San Francisco, CA
*^11/13/2014	Problem-Based Learning Session: Evidence-Based Diagnosis and Non-operative Treatment of Low Back Pain	ASRA Annual Meeting	San Francisco, CA
*^10/17/2014	Learning from SPORT and the High Value Healthcare Collaborative	Virginia Mason Comprehensive Spine Care Conference	Virginia Mason, Seattle, WA
*^3/17/2014	“Research Opportunities: Partnering with Existing Networks – Spine.”	Orthopaedic Research Society Clinical Research Forum	New Orleans, LA

*^3/16/2014	OREF Clinical Research Award Presentation – The Spine Patient Outcomes Research Trial	ORS Annual Meeting	New Orleans, LA
*^5/8/2012	“Lessons Learned from Orthopaedic Trials – SPORT Experience”	Femoroacetabular Impingement Research Symposium	Chicago Ill.
*^5/19/2011	“Clinical Trials and Quality: Lessons from SPORT”	AAOS Comparative Effectiveness Research Symposium	Washington, DC
*^1/21/2011	“What Rate is Appropriate for Musculoskeletal Procedures”	Combined Orthopaedic Grand Rounds	Methodist Hospital, Houston TX
*^1/15/2011	“Lessons Learned from SPORT”	Orthopaedic Research Society Clinical Research Forum	Long Beach, CA
*^9/21/2009	“Shared Decision Making – Addressing Unwarranted Variation”	Lean Leadership Conference	Big Sky, Montana
*^5/14/2009	The Role of Multi-Institution Consortia in Quality Assessment: SPORT	Cleveland Clinic Orthopaedic and Rheumatology Care Quality Innovation Summit	Cleveland, OH
*^10/25/2007	“SPORT Update”	North American Spine Society 22 <sup>nd</sup> Annual Meeting	Austin, TX
*^3/9/2007	“Results of SPORT”	AANS/CNS Section on Disorders of the Spine and	Phoenix, AZ.

Peripheral Nerves

*^9/27/2006	Symposium: The SPORT Study	North American Spine Society 21 <sup>st</sup> Annual Meeting	Seattle, WA
*^12/11/2005	“Issues in the Interpretation of Clinical Trials” w/ James Wright MD	AAOS Course: Orthopaedic Clinical Trials: Design, Implementation and Regulation	Washington, DC
*^12/10/2005	“Developing a Testable Research Hypothesis”	AAOS Course: Orthopaedic Clinical Trials: Design, Implementation and Regulation	Washington, DC
*11/14-15/2005	Considering Usual Medical Care in Clinical Trial Design: Scientific and Ethical Issues	NIH conference	Bethesda,MD
*^11/23/2003	Seminar: Issues in the Interpretation of Clinical Trials  Presented with Timothy Carey, MD, MPH, Alexandre Valentin MD, James Wright MD, MPH	American Academy of Orthopaedic Surgery (AAOS) Course # 3637 Orthopaedic Clinical Trials: Design, Implementation and Regulation Issues	Washington, DC
*^11/22/2003	Lecture: Ethical Issues and Institutional Responsibilities  Presented w/ Judi Forman, MPH	AAOS Course # 3637 Orthopaedic Clinical Trials: Design, Implementation and Regulation Issues	Washington, DC
*^11/22/2003	Lecture: Developing a Testable Research	AAOS Course # 3637 Orthopaedic	Washington, DC

	Hypothesis	Clinical Trials: Design, Implementation and Regulation Issues	
*11/21/2003	Presentation: Musculoskeletal Workforce Issues	AHRQ/AAOS Conference on Racial and Ethnic Disparities in Musculoskeletal Medicine	Washington, DC
*^4/6/2002	Lecture: The Use of Placebo in Clinical Trials	AAOS Course #3435 Orthopedic Clinical Trials: Design, implementation and regulation issues.	Washington, DC
*^12/9/2000	Lecture: IRBs, Informed Consent and Patient Confidentiality	AAOS Course #3580 Orthopedic Clinical Trials: Design, implementation and regulation issues.	Washington, DC
#^3/12/2000	Workshop: Designing Musculoskeletal Clinical Trials  Presented with James N Weinstein, John A Baron	Orthopedic Research Society, 46 <sup>th</sup> Annual Meeting	Orlando, FL
#^4/1/1998	Workshop: "Outcomes Measurement and Quality Improvement"  Presented with S Weingarten, H Dimeola, RM Wachter	National Association of Inpatient Physicians Annual Meeting	San Diego, CA

**Regional/Local:**

**DATE**                      **TOPIC/TITLE**                      **ORGANIZATION**                      **LOCATION**

11/1/2019	Advancing Clinical and Translational Research: SYNERGY and the Trial Innovation Network	DHMC Medical Grand Rounds	Lebanon, NH
7/27/2018	Technology Commercialization in Rehabilitation and Pediatrics: TREAT and NEPDC (Co-presented with Dr Richard Greenwald)	Dartmouth-Hitchcock Medical Center	Lebanon, NH
3/24/2017	Research in Progress: Translation of Rehabilitation Engineering Advances and Technologies	The Dartmouth Institute	Lebanon, NH
*^11/3/2015	“Surface Perturbation Training to Prevent Falls in the Elderly”	NH Fall Prevention Taskforce	Concord, NH
*^9/14/2015	“Surface Perturbation Training to Prevent Falls in the Elderly”	Geriatric Core Competency Conference	DHMC, Lebanon, NH
*^9/8/2015	“Surface Perturbation Training to Prevent Falls in the Elderly”	Rheumatology Interdisciplinary Research Rounds	DHMC, Lebanon, NH
*^8/21/2015	“Surface Perturbation Training to Prevent Falls in the Elderly”	DHMC Medical Grand Rounds	DHMC, Lebanon, NH
*^10/25/2013	Stump The Professor	Vermont and New Hampshire ACP Chapter Scientific Meeting	Hanover, NH
*^9/10 -12/ 2013	Preventing overdiagnosis of back pain	The Preventing Overdiagnosis Conference	Hanover, NH
*^5/10/21013	“The High Value Healthcare Collaborative”	DHMC Medical Grand Rounds	DHMC, Lebanon, NH
*^9/18/2012	“New Tools for Balance and	Regional	DHMC,

	Falls Risk Assessments”	Conference: The Current Science of Brain Injury and Rehabilitation	Lebanon NH
*6/25/2012	“Research in Progress – The Randomized ActiveStep Comparative Effectiveness Trial”	Regional Conference: Falls in Older Adults: Addressing Intrinsic Risk Factors	DHMC, Lebanon, NH
*^6/22/2012	“Pragmatic Clinical Trials”	National Conference: New Frontiers in Disability Related CER	Boston MA
*^8/13/2010	“Treatment of Spinal Stenosis – Insights from SPORT”	DHMC Medical Grand Rounds	DHMC, Lebanon, NH
*^8/10/2010	“SPORT: Lessons for the Design of Comparative Effectiveness Trials”	Rheumatology Interdisciplinary Research Rounds	DHMC, Lebanon, NH
#6/14 – 17/2009	“The Use of Shared Decision Making Tools in Research and Clinical Care for Patients with Low Back Disorders”	Boston International Forum X: Primary Care Research on Low Back Pain	Boston, Mass
*4/17/2009	SPORT Lessons for Comparative Effectiveness Research	TDI: CHPR Seminar	Lebanon, NH
*^4/1/2009	Moderator - “Navigating the Rough Road: Assent, Consent and Other Issues with Special Populations”	Regional Conference – “Pathways to Success: Understanding the Challenges of Clinical Trials in a Time of Increased Scrutiny”	DHMC, Lebanon, NH
*2/3/2009	“The Effect of Expectations	TDI Conference	DHMC,



	and Preferences on Treatment Outcome for Lumbar Intervertebral Disc Herniation”		Lebanon, NH
*^10/23/2008	“A Smorgasbord of Results from SPORT”	Spine Center Grand Rounds	DHMC, Lebanon, NH
*^9/25/2008	“Back Pain Management”	Adventures in Learning; Colby-Sawyer College	New London, NH
*^3/27/2008	“Clinical Trials: Threats to Validity”	Stamford Hospital Research Club	Stamford, Connecticut
*^10/29/2007	“Treatment of Degenerative Spondylolisthesis: Insights from SPORT”	Spine Center Grand Rounds	DHMC, Lebanon, NH
*^9/28/2007	“The SPORT STUDY”	AAPM&R Annual Assembly	Boston, MA
*^3/24/2007	“The Use of Placebo in Clinical Trials”	Regional Conference - Contemporary Issues in Clinical Research	DHMC, Lebanon, NH
*^3/22/2007	“Treatment of Lumbar IDH – Results of SPORT”	Spine Center Grand Rounds	DHMC, Lebanon, NH
*^1/19/2007	“Treatment of Lumbar IDH – Results of SPORT”	New England Spine Study Group/ New England Neurosurgical Meeting	Hartford, CT
*^11/9/2006	“Acute Low Back Pain”	Regional Conference – Managing Medical Emergencies	Concord Hospital, Concord, NH
*^8/25/2006	“Treatment of Lumbar IDH – Results of SPORT”	DHMC Medical Grand Rounds	DHMC, Lebanon, NH
*^4/28/2006	“Critically Assessing the	Stamford Hospital	Stamford,

	Literature"	Research Club	Connecticut
*^4/1/2006	"Threats to the Internal Validity of a Study"	Regional Conference - Contemporary Issues in Clinical Research	DHMC, Lebanon, NH
*^4/9/2005	"Steps to a Study from Conception to Implementation"	Regional Conference - Contemporary Issues in Clinical Research	DHMC, Lebanon, NH
*^4/9/2005	"Reading and Understanding Research Articles"	Regional Conference - Contemporary Issues in Clinical Research	DHMC, Lebanon, NH
*^3/23/2004	"Diagnosing Serious Underlying Causes of Low Back Pain"	Spine Center Grand Rounds	DHMC, Lebanon, NH
*^12/5/2002	Spine Patient Outcomes Research Trial (SPORT)	New England College of Occupational and Environmental Medicine	Bedford, MA
*9/26/2002	General vs. Disease-Specific Health Surveys: Do Comorbidities Influence Baseline Results?	Orthopaedics/Spine Center Hark Visiting Professor Lectureship Series	DHMC, Lebanon, NH
*10/23/2001	Is a Condition-Specific Instrument for Patients with Low Back Pain/Leg Symptoms Really Necessary? The responsiveness of the Oswestry Disability Index versus the SF36.	Dartmouth Orthopaedic Surgery Spine Lectureship	DHMC, Lebanon, NH
*^4/26/2001	"MRI of the Lumbar Spine: Who needs 'em?"	Spine Center Grand Rounds	DHMC, Lebanon, NH
*^3/3/2000	"Will this patient with low	Medical Grand	DHMC,

	back pain benefit from surgery?	Rounds	Lebanon, NH
*10/16/1999	“The Spine Center at DHMC & the National Spine Network”	Third Annual CECS Alumni Reunion	Hanover, NH
*^10/7/1998	Quality and Outcomes: Measurement and Management.	Mercy Hospital CME Conference: “Hospitalists, Clinical Paths and Case Management”	Springfield, MA

## XXII. BIBLIOGRAPHY:

### A. Peer-reviewed publications in print or other media

#### Original articles:

1. Trooboff SW, Wanken ZJ, Gladders B, Columbo JA, **Lurie JD**, Goodney PP. Longitudinal Spending on Endovascular and Open Abdominal Aortic Aneurysm Repair. *Circ Cardiovasc Qual Outcomes*. 2020; [In Press]
2. **Lurie JD**, Zagaria AB, Ellis L, Pidgeon D, Gill-Body KM, Burke C, Armbrust K, Cass S, Spratt KF, McDonough CM. Dartmouth-Hitchcock 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
3. Yanik EL, Kelly, MP **Lurie JD**, Baldus CR, Shaffrey CI, Schwab FJ, Bess S, Lenke LG, LaBore A, Bridwell KH. Effect Modifiers for Patient-Reported Outcomes in Operatively and Nonoperatively Treated Patients with Adult Symptomatic Lumbar Scoliosis, *J of NeuroSurg* 2020 Mar 6:1-10. doi: 10.3171/2020.1.SPINE191288. [Epub ahead of print] PMID:32114531
4. Schroeder GD, Radcliff KE, Vaccaro AR, Murphy H, Sutton RM, **Lurie JD**, Zhao W, Hilibrand AS. Comparing Patient-reported Outcomes to Patient Satisfaction After a Microdiscectomy for Patient's With a Lumbar Disk Herniation. *Clin Spine Surg*. 2020 Mar;33(2):82-88. doi: 10.1097/BSD.0000000000000887. PMID: 32102050
5. 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. PMID:31393337
6. Carreon LY, Glassman SD, **Lurie J**, Shaffrey CI, Kelly MD, MP, Baldus CR, Bratcher KR, Crawford CH, Yanik EL, Bridwell KH. Cost-effectiveness of operative vs nonoperative treatment of Adult Symptomatic Lumbar Scoliosis an Intent-to-Treat Analysis at Five Year Follow-up. *Spine (Phila Pa 1976)*. 2019 Nov 1;44(21):1499-1506. doi: 10.1097/BRS.00000000000003118. PMID: 31205182
7. Sabatino MJ, Reilly CA, Kunkel ST, Titus AJ, Keeney BJ, Ramkumar DB, Goodney PP, Ibrahim SA, **Lurie JD**, Henderson ER. Duration of Military Service is Associated with Decision Quality in Veterans Considering Total Knee Replacement. *Patient Related Outcome Measures* 2019. Jul 5;10:209-215. doi: 10.2147/PROM.S163691

8. Smith JS, Shaffrey CI, Kelly MP, Yanik EL, **Lurie JD**, Baldus CR, Edwards C, Glassman SD, Lenke LG, Boachie0Adjei O, Buchowski TJ, Carreon LY, Crawford CH III, Errico TJ, Lewis SJ, Koski T, Parent S, Kim HJ, Bess S, Schwab FJ, Bridwell KH. Impact of serious adverse events on health-related quality of life measures following surgery for adult symptomatic lumbar scoliosis. *Spine (Phila Pa 1976)*. 2019 Mar 20. Doi10.1097/BRS.0000000000003036. [Epub ahead of print] PMID: 30921297
9. Austin DC, Torchia MT, **Lurie JD**, Jevsevar DS, Bell JE. Identifying Regional Characteristics Influencing Variation in the Utilization of Rotator Cuff Repair in the United States *Journal of Shoulder and Elbow Surgery*. 2019 Apr 4. pii: S1058 2746(18)30954-6. doi: 10.1016/j.jse.2018.12.013. [Epub ahead of print] PMID: 30956144
10. 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
11. Shenoy K, Stekas N, Donnally CJ 3rd, Zhao W, Kim YH, **Lurie JD**, Razi AE. Retrolisthesis and lumbar disc herniation: a postoperative assessment of outcomes at 8 year follow-up. *Spine J*. 2018 Dec 27. pii: S1529-9430(18)31319-6. doi: 10.1016/j.spinee.2018.12.010. [Epub ahead of print] PMID: 30594668.
12. Chang CH, **Lurie JD**, Bynum J. Geographic Expansion of Federally Qualified Health Centers 2007-2014. *J Rural Health* 2018 *J Rural Health*. 2018 Oct 23. doi: 10.1111/jrh.12330. [Epub ahead of print] PMID: 30352132
13. 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. doi: 10.1097/BRS.0000000000002723. PMID: 29877995
14. Passias PG, Poorman G, **Lurie J**, Zhao W, Morgan T, Horn S, Bess RS, Lafage V, Gerling M1, Errico TJ. Patient Profiling Can Identify Spondylolisthesis Patients at Risk for Conversion from Nonoperative to Operative Treatment. *JB JS Open Access*. 2018 May 8;3(2):e0051. doi: 10.2106/JBJS.OA.17.00051.
15. Abdu WA, Sacks OA, Tosteson ANA, Zhao W, Tosteson TD, Morgan TS, Pearson A, Weinstein JN, **Lurie JD**. Long-Term Results of Surgery Compared with Nonoperative Treatment for Lumbar Degenerative Spondylolisthesis in the Spine Patient Outcomes Research Trial (SPORT). *Spine (Phila Pa 1976)*. 2018 Apr 12. doi: 10.1097/BRS.0000000000002682. [Epub ahead of print] PMID: 29652786.
16. Henderson ER, Titus AJ, Keeney BJ, Goodney PP, **Lurie JD**, Ibrahim SA. Military service and decision quality in the management of knee osteoarthritis. *Mil Med*. 2018 May 18. doi: 10.1093/milmed/usy104. [Epub ahead of print] PMID:29788284.
17. 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. PMID:28885288
18. Glassman SD, Bridwell KH, Shaffrey CI, Edwards CC II, **Lurie JD**, Carreon LY. HRQOL Scores Underestimate the Impact of Major Complications in Lumbar Degenerative Scoliosis Surgery. *Spine Deform*. 2018 Jan;6(1):67-71. doi: 10.1016/j.jspd.2017.05.003. PMID: 29287820
19. Tapp SJ, Martin BI, Tosteson TD, **Lurie JD**, Weinstein MC, Deyo RA, Mirza SK, Tosteson ANA. Understanding the value of minimally invasive procedures for the treatment of lumbar spinal stenosis: the case of interspinous spacer devices. *The Spine Journal* 2017 Aug 25. pii: S1529-9430(17)30944-0. doi: 10.1016/j.spinee.2017.08.246. [Epub ahead of print] PMID: 28847740

20. Gerling MC, Leven D, Lafage V, Passias PG, Bianco K, Lee A, **Lurie JD**, Tosteson TD, Zhao W, Spratt KF, Errico TJ. Risks Factors For Reoperation in Patients Treated Surgically for Degenerative Spondylolisthesis: A subanalysis of the 8-year data from the SPORT trial. *Spine* 2017 Apr 10. doi: 10.1097/BRS.0000000000002196. [Epub ahead of print] PMID: 28399551
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#### **Reviews:**

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5. **Lurie JD**. Evidence-based Management of Chronic Low Back Pain. *Advances in Pain Management* 2008; 1(4): 141-146.
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#### **Book chapters:**



1. Martin BI, Tosteson ANA, **Lurie JD**, Mirza SK, Goodney PR, Dzebiasashvili N, Goodman DC, Bronner KK. Variation in the Care of Surgical Conditions: Spinal Stenosis. A Dartmouth Atlas of Health Care Series. 2014.
2. **Lurie JD**. Back again [Spotlight]. AHRQ WebM&M [serial online]. March 2008. Available at: <http://www.webmm.ahrq.gov/case.aspx?caseID=170>.
3. **Lurie JD**. The Orthopedic Surgery Workforce In: *The Dartmouth Atlas of Musculoskeletal Health Care*. Chicago, IL: American Hospital Association Press, 2000
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## B. Other scholarly work in print or other media

### Letters

1. **Lurie JD**, Tosteson TD, Tosteson AAN, Weinstein JN. The Authors Respond. Spine (Phila Pa 1976). 2017 Aug 4. doi: 10.1097/BRS.0000000000002374. PMID: 28787314
2. Carragee EJ, Baker RM, Benzel EC, Bigos SJ, Cheng I, Corbin TP, Deyo RA, Hurwitz EL, Jarvik JG, Kang JD, **Lurie JD**, Mroz TE, Oner FC, Peul WC, Rainville J, Ratliff JK, Rihn JA, Rothman DJ, Schoene ML, Spengler DM, Weiner BK. A biologic without guidelines: the YODA project and the future of bone morphogenetic protein-2 research. Spine J 2012 Oct; 12(10):877-80. <http://www.ncbi.nlm.nih.gov/pubmed/23199819>.
3. Martin B, **Lurie J**, Weinstein DJ. Regarding Farjoodi & Colleagues on the "Effects of Hospital and Surgeon Volume on Postoperative Complications after Lumbar Spine Surgery" Spine (Phila Pa 1976). 2012 Jan 14.
4. Shipman SA, **Lurie JD**, Goodman DC. Letter to the Editor: The Future of Primary Care. Ann Intern Med 2004; 140:69.
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### Invited Commentaries

1. **Lurie JD**. Point of View: Hospital and Surgeon Variation in Patient-reported Functional Outcomes after Lumbar Spine Fusion. Spine (Phila Pa 1976). 2020 Apr 1;45(7):473. doi: 10.1097/BRS.0000000000003343. PMID: 31770324
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6. Pearson AM, **Lurie JD.** Surgical versus nonoperative treatment: How do we choose the right approach to lumbar disc herniation? *Pain Management* 2014; 4(4), 247–249.
7. **Lurie JD.** Commentary: Recovery of Motor Deficits after Lumbar Disc Herniation. *The Spine Journal*. 2014 Sep 1;14(9):1825-7.
8. **Lurie JD.** Point of View: Interspinous Spacers versus Decompressive Surgery for Lumbar Neurogenic Intermittent Claudication. *Spine* 2013. 2013 Aug 1;38(17):1525. PMID: 23900116
9. **Lurie JD.** Point of View: Utilization of Early MRI in Low Back Pain. *Spine (Phila Pa 1976)*. 2011 Dec 12. [Epub ahead of print]
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11. **Lurie JD.** Point of View: Validation of a Minimum Outcome Core Set in the Evaluation of Patients with Back Pain. *Spine* 2006; 31(12): 1380.
12. **Lurie JD,** Point of View: 3-Year Incidence of Low Back Pain in an Initially Asymptomatic Cohort: Clinical and Imaging Risk Factors. *Spine* 2005; 30:1549.
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14. **Lurie JD** Point of View: A Pilot Study on the Recovery of Paresis after Lumbar Disc Herniation. *Spine* 2002; 27:1431-32.
15. **Lurie JD** Point of View: Patient Expectations and Treatment Effects: Lessons from a trial of acupuncture and massage for low back pain. *Spine* 2001; 26:1424.
16. **Lurie JD.** Point of View: Surgical and Non-surgical Management of Sciatica Secondary to Lumbar Disc Herniation: Five-year Outcomes from the Maine Lumbar Spine Study. *Spine* 2001;26:1187.
17. **Lurie JD.** Point of View: Responsiveness of Generic and Specific Measures of Health Outcome in Low Back Pain. *Spine* 2001; 26: 77.
18. **Lurie JD.** Point of View: Severity of Symptoms and Signs in Relation to Magnetic Resonance Imaging Findings among Sciatic Patients. *Spine* 2001;26:E154.

### Other Scholarly Products

- |      |   |
|------|---|
| 2016 | Spine Treatment Calculator<br>available at: <a href="http://spinesurgerycalc.dartmouth.edu/calc/">http://spinesurgerycalc.dartmouth.edu/calc/</a>                                       |
| 2004 | Interactive Physician Workforce Model for Pediatrics<br>available at: <a href="http://www.dartmouthatlas.org/workforce_model.php">http://www.dartmouthatlas.org/workforce_model.php</a> |
| 1996 | Computer-Based Instruction Module: "John with a Sore Throat".<br><b>JD Lurie,</b> JM Clark; Peer reviewed, DHMC   |

C. Abstracts: Include both oral, exhibit and poster presentations. Indicate with (#) abstracts that were reviewed (e.g., by a professional society) prior to being accepted for presentation.

1. #Scherer EA, **Lurie J,** Atlas S, Jacobs WC, Peul W, Spratt K, Zhao W, Weinstein J, Tosteson TD. POSTER: External Comparisons of a Treatment Outcomes Calculator for Surgical and Nonsurgical Treatment of Disc Herniation. ISSLS; San Francisco, CA. June 8-12, 2015.
2. #Martin BI, Deyo RA, **Lurie JD,** Tosteson ANA, Carey T, Mirza SK. POSTER: The Impact of

- New Policy Restriction on Indications for Lumbar Fusion Surgery. ISSLS; San Francisco, CA. June 8-12, 2015.
3. #Tosteson TD, **Lurie JD**, Zhao W, Blood E, Spratt KF, Tosteson ANA, Weinstein JN. PODIUM: Comparisons of the Effects of Time to Surgery in the Spine Patient Outcomes Research Trials for Lumbar Disc Herniation (IDH), Spinal Stenosis (SpS), and Degenerative Spondylolisthesis (DS). ISSLS; Seoul, South Korea. June 3-7, 2014.
  4. #Tosteson ANA, Tosteson TD, **Lurie JD**, Zhao W, Blood E, Grove MR, Abdu WA, Weinstein JN. PODIUM: Long-term Cost Effectiveness of Lumbar Spine Surgery in the Spine Patient Outcomes Research Trial (SPORT). ISSLS; Seoul, South Korea. June 3-7, 2014.
  5. #Rihn J, Hilibrand A, Zhao W, **Lurie J**, Vacarro A, Albert A, Weinstein J. POSTER: Is Surgery Effective for lumbar stenosis and degenerative spondylolisthesis in the octogenarian population? Analysis of the SPORT data. AAOS; New Orleans, LA. March 11-14, 2014.
  6. #**Lurie JD**, Tosteson TD, Tosteson ANA, Zhao W, Morgan TS, Abdu WA, Herkowitz H, Weinstein JN. PODIUM: Surgical versus Non-Operative Treatment for Lumbar Disc Herniation: Eight-Year Results for the Spine Patient Outcomes Research Trial (SPORT). ISSLS; Seoul, South Korea. June 3-7, 2014.
  7. #**Lurie JD**, Tosteson TD, Tosteson ANA, Zhao W, Morgan TS, Abdu WA, Herkowitz H, Weinstein JN. PODIUM: Long-Term Outcomes for Lumbar Degenerative Spondylolisthesis: Eight-Year Results for the Spine Patient Outcomes Research Trial (SPORT). ISSLS; Seoul, South Korea. June 3-7, 2014.
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  9. #Moses R, Zhao W, Staub L, Melloh M, Barz T, **Lurie JD**. PODIUM: Is the Sedimentation Sign Associated with Spinal Stenosis Surgical Treatment Effect in SPORT. ISSLS; Scottsdale, AZ. May 13-17, 2013.
  10. # Martin BI, Mirza SK, **Lurie JD**, Tosteson ANA, Deyo RA. PODIUM: Validation of administrative coding algorithm to identify back-related degenerative diagnoses. ISSLS; Scottsdale, AZ. May 13-17, 2013.
  11. #Pearson AM, **Lurie JD**, Tosteson TD, Zhao W, Abdu WA, Mirza SK, Weinstein J. PODIUM: Who Should Have Surgery for Spinal Stenosis? Treatment Effect Predictors in SPORT. ISSLS; Amsterdam, the Netherlands. May 28-June 1, 2012, 2012.
  12. #Desai A, Bekelis K, Ball PA, **Lurie JD**, Mirza SK, Tosteson TD, Zhao W, Weinstein JN. PODIUM: SPORT: Do outcomes vary across centers for surgery for DS/SpS? . Congress of Neurosurgeons; Chicago, IL. October 6-10, 2012.
  13. #Radcliffe K, Rihn J, **Lurie JD**, Zhao W, Ponnappan R, Anderson DG, Vacarro AR, Albert TJ, Tosteson TD, Hilibrand AS, Weinstein JN. PODIUM: Do epidural steroid injections affect the outcome of patients treated for lumbar disc herniation? A subgroup analysis of the Spine Patient Outcomes Research Trial (SPORT). AAOS; San Diego, CA. February 15-19, 2011.
  14. #Radcliffe K, Rihn J, Curry P, **Lurie JD**, Zhao W, Ponnappan R, Anderson DG, Vacarro AR, Tosteson TD, Albert TJ, Hilibrand AS, Weinstein JN. POSTER: Predictors and Results of Revision Surgery for Spinal Stenosis: A Subgroup Analysis of the Spine Patient Outcomes Research Trial (SPORT). AAOS; San Diego, CA. February 16-19, 2011.
  15. #Radcliff K, Keper C, Hilibrand A, Zhao W, **Lurie JD**, Tosteson TD, Rihn J, Albert TJ, Weinstein JN. PODIUM: Do epidural steroid injections affect the outcome of patients treated for lumbar stenosis? A subgroup analysis of SPORT; BEST PAPER section. NASS; Chicago, IL. November 5-12, 2011.
  16. #Radcliff K, Friedman M, Hilibrand A, Zhao W, **Lurie JD**, Tosteson TD, Rihn J, Albert TJ, Weinstein JN. PODIUM: Does Narcotic Pain Medication Use Affect the Outcome of Patients with Lumbar Disk Herniation? . NASS; Chicago, IL. November 2-5, 2011.

17. #Radcliff K, Curry P, Hilibrand A, Zhao W, **Lurie JD**, Tosteson TD, Rihn J, Albert TJ, Weinstein JN. PODIUM: Predictors of reoperation in lumbar stenosis and degenerative spondylolisthesis surgery; BEST PAPERS section. NASS; Chicago, IL. Nov 5-12, 2011.
18. Desai A, Bekelis K, Ball PA, **Lurie JD**, Mirza SK, Tosteson TD, Zhao W, Weinstein JN. POSTER: SPORT: Do outcomes vary across centers for surgery for lumbar disc herniation? New England Neurosurgery Society; Chatham, MA, 2011.
19. #Desai A, Bekelis K, Ball PA, **Lurie JD**, Mirza SK, Tosteson TD, Zhao W, Weinstein JN. POSTER: SPORT: Do outcomes vary across centers for surgery for lumbar disc herniation? . Congress of Neurosurgeons; Washington, DC, 2011.
20. #Tosteson TD, Pearson A, **Lurie JD**, Zhao W, Abdu WA, Mirza SK, Tosteson ANA, Weinstein JN. POSTER: Improving predictions of outcomes for surgical and non-operative treatment of intervertebral disc herniation (IDH). ISSLS; Auckland, New Zealand, 2010.
21. #Tosteson ANA, Tosteson TD, **Lurie JD**, Skinner JS, Zhao W, Grove MR, Weinstein JN. PODIUM: Factors affecting 4-yr cost-effectiveness of surgery for SpS with or without DS in SPORT. ISSLS; Auckland, NZ, 2010.
22. #Snyder BM, Blood EA, **Lurie JD**, Weinstein JN. PODIUM: The influence of smoking on patient outcomes in the Spine Patient Outcomes Research Trial (SPORT). ISSLS; Auckland, NZ, 2010.
23. #Pearson AM, **Lurie JD**, Tosteson TD, Zhao W, Abdu WA, Mirza SK, Weinstein JN. PODIUM: SPORT INTERVERTEBRAL DISC HERNIATION: INDICATIONS MATTER MOST. NASS; Orlando, FL. October 5-9, 2010.
24. #Pearson AM, **Lurie JD**, Tosteson TD, Zhao W, Abdu WA, Mirza SK, Weinstein JN. PODIUM: SPORT INTERVERTEBRAL DISC HERNIATION: INDICATIONS MATTER MOST. Lumbar Spine Research Society; Chicago, IL. April 8-9, 2010.
25. #Pearson AM, **Lurie JD**, Tosteson TD, Zhao W, Abdu WA, Mirza SK, Weinstein J. PODIUM: SPORT INTERVERTEBRAL DISC HERNIATION: INDICATIONS MATTER MOST. ISSLS; Auckland, NZ, 2010.
26. #**Lurie JD**, Carragee E, Mirza SK, Spratt KF, Zhao W, Tosteson ANA, Tosteson TD, Weinstein JN. PODIUM: Influence of definition on rates of success for lumbar disc herniation. ISSLS; Auckland, New Zealand, 2010.
27. Desai A, Ball PA, Bekelis K, **Lurie JD**, Mirza SK, Tosteson ANA, Tosteson TD, Weinstein J. PODIUM: Outcomes after incidental durotomy during first-time lumbar discectomy. New England Neurosurgery; Chatham, MA. June 17-19, 2010.
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30. #Olson PR, **Lurie J**, Frymoyer JW, Walsh TL, Zhao W, Weinstein J. POSTER: Lumbar Disk Herniation in the Spine Patient Outcomes Research Trial: Does Educational Attainment Affect Outcome? ISSLS; Hong Kong, PRC, 2009.
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32. #**Lurie JD**, Berven S, Blood EA, Tosteson ANA, Spratt KF, Tosteson TD, Weinstein J. PODIUM: SPORT: The effect of treatment on preference and expectations on IDH outcomes. FORUM X; Boston, MA, 2009.
33. #Tosteson TD, Blood EA, Schwarz S, Morgan TS, **Lurie J**, Tosteson ANA, Weinstein J. POSTER: A Web-based Health Outcomes Calculator for \_Spinal Stenosis Patients Using Results from the Spine Patient Outcomes Research Trial (SPORT). ISSLS; Geneva,

- Switzerland, 2008.
34. #Pearson A, **Lurie J**, Blood EA, Frymoyer JW, Braeutigam H, An H, Girardi F, Weinstein J. POSTER: SPORT: Radiographic predictors of clinical outcomes following Operative or Non-operative Treatment of Degenerative Spondylolisthesis. American Academy of Orthopaedic Surgeons; San Francisco, CA. March 5-9, 2008.
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  36. #Pearson A, Blood E, **Lurie J**, Tosteson T, Hilibrand A, Bridwell K, Weinstein J. PODIUM: SPORT Spinal Stenosis vs. Degenerative Spondylolisthesis: Comparison of Baseline Characteristics and Outcomes. North American Spine Society (NASS); Toronto, Canada. October 14-18, 2008.
  37. #Pearson A, Blood E, **Lurie J**, Sengupta D, Abdu W, Hu SS, Longley M, Lenke LG, Weinstein J. PODIUM: SPORT: Predominant Leg Pain is Associated with Better Surgical Outcomes in Degenerative Spondylolisthesis and Spinal Stenosis. North American Spine Society (NASS); Toronto, Canada. October 14-18, 2008.
  38. #**Lurie JD**, Blood E, Braeutigam H, Weinstein J, Pearson A. POSTER: SPORT: Do Baseline Radiographic Findings Predict Outcomes in Degenerative Spondylolisthesis? American Academy of Orthopaedic Surgeons; Los Angeles, CA. March 5-8, 2008.
  39. #Abdu WA, Spratt KF, Lurie J, Tosteson TD, Tosteson ANA, Weinstein JN. PODIUM: Outcomes for Different Surgical Approaches to Degenerative Spondylolisthesis in SPORT. ISSLS; Geneva, Switzerland, 2008.
  40. #Tosteson TD, Hanscom B, Blood EA, **Lurie JD**, Tosteson ANA, Weinstein JN. POSTER: Statistical Methods for Cross-Over in the SPORT Lumbar Disc Herniation Trial. International Society for Study of the Lumbar Spine; Hong Kong, PRC. June 10-14, 2007.
  41. #**Lurie JD**, Tosteson AN, Tosteson TD, Carragee E, Carrino J, Kaiser J, Grove MR, Blood EA, Pearson LH, Herzog R. POSTER: The Relationship of MRI characteristics and the Outcomes of Surgery vs Nonop Tx in Patients with IDH in SPORT. Forum VIII: Primary Care Research on Low Back pain; Palma de Mallorca. October 7-9, 2004, 2007.
  42. #**Lurie JD**, Spratt KF, Blood EA, Tosteson TD, Tosteson ANA, Weinstein JN. POSTER: The effects of viewing an evidence-based videotape on patients' treatment preference for lumbar disc and stenosis surgery. International Society for Study of the Lumbar Spine; Hong Kong, PRC. June 10-14, 2007.
  43. #**Lurie JD**, Faucett S, Hanscom B, Tosteson TD, Abdu WA, Weinstein JN. PODIUM: Do lumbar discectomy outcomes differ by level? International Society for Study of the Lumbar Spine; Hong Kong, PRC. June 10-14, 2007.
  44. #**Lurie J**, Blood EA, Carragee E, Carrino J, Kaiser J, Herzog R, Grove MR, Pearson LH, Tosteson T, Tosteson A. POSTER: The Relationship of MRI Characteristics and the Outcomes of Surgery compared to Non-operative Treatment in Patients with IDH in SPORT. FORUM IX; Palma de Mallorca, Spain. October 4-6, 2007.
  45. #Weinstein J, Tosteson TD, **Lurie J**, Tosteson AN, Hanscom B, Skinner J, Boden S, Deyo R, Hilibrand AS. PODIUM: SPORT: One-year outcomes for surgical versus non-operative treatment for lumbar disc herniation from the randomized Spine Patient Outcomes Research Trial. ISSLS; 2006; Bergen, Norway.
  46. #Weinstein J, Tosteson TD, **Lurie J**, Hanscom B, Tosteson AN, Skinner J, Albert T, Cammisa F, Herkowitz H, editors. PODIUM: SPORT: Two-year outcomes for surgical versus non-operative treatment for lumbar disc herniation from the observational cohort of the Spine Patient Outcomes Research Trial. ISSLS; 2006; Bergen, Norway.
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65. **#JD Lurie**, DC Goodman. PODIUM: "The Primary Care Workforce: A Growing Concern?" SGIM Annual Meeting, April 30, 1999 San Francisco, CA
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### **XXIII. Personal Statement:**

Please highlight in ~1-3 pages those accomplishments that best define your contributions to the academic mission of Geisel. Include your educational, clinical and research activities, as well as your goals. Use this space to describe activities that may benefit from a more substantive description than the entries listed in your CV.

My overriding academic interest is in evidence-based decision-making and decision-based evidence-making. My interest in evidence-based decision-making is at both diagnostic, therapeutic, and policy level decisions and spans both my research, teaching and clinical care roles. My interest in decision-based evidence making carries the clinical perspective into my clinical research in an effort to design and carry out pragmatic trials and other research studies that directly affect clinical care decisions and in teaching the skills necessary to translate study results into informed clinical decisions for both trainees and patients. My time is currently split 55% research and graduate teaching at TDI/Geisel and 45% clinical and administrative at DHMC.

My specific accomplishments, interests, and goals are as follows:

Research:

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 54 peer-reviewed publications in prominent medical journals, with extensive coverage and discussion in the lay press

2) 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 then evaluated in predictive models to identify features on MRI that best predicted response to different treatments.

3) 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 measure of expectancy, evaluated factors that predicted those expectancies, and then how those expectancies may have affected the patient 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.

4) 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.

5) Recently, I have expanded my areas of direct interest beyond spinal disorders in particular into other common disorders that impact patient functioning. This includes fall prevention interventions and rehabilitation technology development in general in order to help identify and evaluate important new approaches to maintaining and improving physical functioning.

#### Teaching:

My major teaching focus goes hand in hand with my research interests with an emphasis on Evidence Based Medicine (EBM), outcomes research, critical appraisal and interpretation of the literature, and clinical study design and implementation. I teach EBM at both the Medical School and residency level; have taught clinical trial design and implementation at an AAOS course on clinical trials, a TDI mini-course on Clinical Trials, and continue to teach an Introduction to Clinical Research for the CTO, an introduction to T2 translational research in the SYNERGY certificate program, co-lead the TDI Masters Research Capstone Course where students get intensive small group instruction and feedback through 3 terms on designing a research project of their choice, and am developing a course on Randomized Clinical Trials for the new SYNERGY Masters program in Clinical and Translational Research. I also serve as an Advisor/Mentor for many medical students, residents, and junior faculty interested clinical and outcomes research.

#### Clinical:



Clinically, I maintain an active practice in Hospital Medicine and recently became the Section Chief of Hospital Medicine. Increasing Research and Administrative demands forced me to give up my specialty practice within the Spine Center, seeing referral patients with primarily low back and neck disorders but I continue to serve as a resource for providers with questions regarding the diagnosis and treatment of patients with low back problems.

Goals:

My goals are to continue to pursue my passions in all three areas of academic medicine, with an increased focus on mentoring young faculty members and helping them develop careers to help advance the practice of medicine by having good evidence to guide decision in problems important to patients and physicians well-trained in interpreting and applying that evidence, along with the elicitation and clarification of each patients' values, in order to achieve high quality shared decisions.