

Stuart Scott Lollis, MD
CURRICULUM VITAE

Position: Associate Professor
Department of Surgery
Division of Neurosurgery

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EDUCATION

<u>Year</u>	<u>Institution</u>	<u>Degree</u>	<u>Area of Degree, Accolades</u>
2009 – 2010	Cleveland Clinic, Cleveland, OH	Fellow	Spine Surgery
2004 – 2009	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Resident	Neurosurgery
2003 – 2004	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Intern	General Surgery
1999 – 2003	Columbia University, New York, NY	M.D.	
1994 – 1998	Dartmouth College, Hanover, NH	B.A.	Government

LICENSES, CERTIFICATION

2014 – Present	Diplomate, American Board of Neurological Surgery
2016 – 2018	License 286088, New York
2016 – 2018	License 042.0013452, Vermont
2014 – 2014	License 13040, North Dakota
2014 – 2014	License 7985, Alaska
2014 – 2015	License 41581, Iowa
2014 – 2014	License 57433, Minnesota
2014 – 2015	License 071247, Georgia
2014 – 2014	License 33004, Alabama
2014 – 2015	License 61796-20, Wisconsin
2013 – 2015	License 46651, Kentucky
2013 – 2015	License 50673, Tennessee

2013 – 2014	License 27616, Nebraska
2013 – 2017	License 4301104258, Michigan
2013 – 2015	License 8982, South Dakota
2013 – 2015	License 01073206A, Indiana
2010 – 2018	License 14882, New Hampshire
2009 – 2016	License 35.093135, Ohio
2003 – 2009	Training license RT-1202, New Hampshire

**Please note that all state licenses other than NH, OH, VT, and NY were obtained as part of a telehealth initiative at Dartmouth-Hitchcock Medical Center, which was cancelled before rollout. I have only practiced medicine in NH, OH (fellowship), and VT.*

FACULTY POSITIONS HELD

<u>Years</u>	<u>Institution</u>	<u>Academic Title</u>	<u>Department</u>
2018 - Present	Larner College of Medicine, University of Vermont, Burlington, VT	Associate Professor of Neurosurgery	Surgery
2016 - 2018	Larner College of Medicine, University of Vermont, Burlington, VT	Assistant Professor of Neurosurgery	Surgery
2010 - 2016	Dartmouth Medical School Hanover, NH	Assistant Professor of Neurosurgery	Surgery
2009 - 2010	Cleveland Clinic Foundation Cleveland, OH	Instructor of Neurosurgery	Surgery

OTHER POSITIONS AND MAJOR ADMINISTRATIVE POSITIONS HELD

<u>Years</u>	<u>Location</u>	<u>Role</u>
2017 - 2019	UVM Medical Center Burlington, VT	Residency Education Director
2016 - Present	UVM Medical Center Burlington, VT	Staff Surgeon, Neurosurgery
2010 - 2016	Dartmouth-Hitchcock Medical Center Mary Hitchcock Memorial Hospital Lebanon, NH	Staff Surgeon, Neurosurgery
2009 - 2010	Cleveland Clinic Cleveland, OH	Staff Surgeon, Neurosurgery

HONORS AND AWARDS

<u>Year</u>	<u>Name of Award</u>
1998	Honors: <i>Cum laude</i> , Dartmouth College

- 2003 Alpha Omega Alpha, Columbia University, Coll. of Physicians & Surgeons
- 2014 Care Path Award (team), *Management of Non-Operative Traumatic Spine Fractures*, Department of Surgery, Dartmouth-Hitchcock Medical Center
- 2019 First Place Socioeconomic Eposter Award, *Differential Patterns of Referral to Neurosurgery: A Comparison of Allopathic Physicians, Osteopathic Physicians, Nurse Practitioners, Physician Assistants, and Chiropractors*, AANS 2019, San Diego, CA
- 2025 Nominee for H. Gordon Page, MD Clinician Award, University of Vermont Department of Surgery

KEYWORDS/AREAS OF INTEREST

Clinical interests: Intra-operative navigation, spinal degeneration, spinal fracture, spinal stenosis, spinal tumors, spondylolisthesis, trauma

Research Interests: Intra-operative navigation, spinal fractures, pre-hospital transport of critically-ill neurosurgical patients

SUMMARY OF PROFESSIONAL ACTIVITIES - OVERALL

I was hired in August 2016 as Assistant Professor, Clinical Scholar Pathway in the Department of Surgery. Since that time, I have developed a busy surgical practice, focusing on treatment of complex spinal issues, including tumor, trauma, and deformity. This practice has been augmented through an outreach clinic at Central Vermont Medical Center. In 2018, I was promoted to the position of Associate Professor.

As a faculty member in the Division of Neurosurgery, I am an active participant in resident and medical student education. In addition to teaching responsibilities in the operating room and on the wards, I participate in a Thursday morning didactic schedule that includes Quality Improvement/Morbidity & Mortality conference, Oral Boards Review, Journal Club, and a variety of other academic conferences.

Outside of University of Vermont, I am the founder of Limbix, LLC, a medical education software development company. I am the author of 4 medical applications available for the iPhone on Apple's App store, which rank among the top-rated applications for neurosurgery, spine surgery, cerebrovascular neurology, and neuro-oncology. I also host a website, whatstheedata.com, that provides free summaries of these fields' most important evidence guiding patient care.

I currently serve as the trauma liaison for the Division of Neurosurgery. Responsibilities include reviewing particular neurotrauma cases for quality assurance, attending a monthly multidisciplinary Trauma Peer Review conference, and identifying areas for improvement and cooperation between trauma services. In this capacity, I am currently updating network-wide protocols for triage and transfer of neuro-trauma, bringing them into compliance with national Modified Brain Injury Guidelines.

In recent years, spinal surgery at University of Vermont has been characterized by increasing multidisciplinary collaboration, particularly between the Division of Neurosurgery and the

Department of Orthopedic Surgery; this is a trend I wholeheartedly support. In addition to participating in a joint weekly case conference involving surgeons from both groups, I contribute to a morning lecture series for the orthopedic residents, in which management of various common spinal diseases are reviewed. This spirit of interdepartmental cooperation also extends to my clinical practice. Multidisciplinary operative cases, in which each discipline brings its special skill sets to bear on patient disease, are increasingly common.

SUMMARY OF ACCOMPLISHMENTS

- Currently maintain a busy clinical practice in complex spine surgery, with over 170 cases per year, consisting mostly of complex, multilevel spinal operations for deformity, trauma, tumor, and degenerative disease.
- During fourteen years in academic practice, have mentored and helped to train 29 neurosurgical residents, who now occupy a variety of positions in academic and private practice neurosurgery across the United States.
- As Trauma Liaison for the Division of Neurosurgery, recently helped to lead a rollout of a new regional and network-wide triage system for neurotrauma, based on national Modified Brain Injury Guidelines.
- Authored and published 4 top-ranked iPhone applications related to neurosurgery, spine surgery, neuro-oncology, and cerebrovascular neurology. These are currently available on the App Store and collectively garner over two thousand annual paid subscriptions.

PROFESSIONAL SERVICE

DEPARTMENTAL SERVICE

Years	Department	Committee	Role
2016 - 2017	Surgery, Division of Neurosurgery	Search Committee Cerebrovascular/Skull Base Surgeon	Member
2023-2024	Surgery, Division of Neurosurgery	Search Committee, Neurosurgery Division Chair	Member
2025-2026	Surgery Division of Neurosurgery	Search Committee, Skull Base Surgeon	Member
2025-2026	Surgery, Division of Neurosurgery	Search Committee, Endovascular surgeon	Member

COLLEGE SERVICE - None

MEDICAL CENTER SERVICE

Years	Service Committee	Role
2007 - 2009	Neurosurgery Resident Duty Hours Committee Dartmouth-Hitchcock Medical Center	Resident Member
2013 - 2016	Neurosurgery Residency Education / Program	Member

	Review Committee Dartmouth-Hitchcock Medical Center	
2013 - 2016	Neurosurgery Resident Clinical Competency Review Committee	Member
2016 - 2019	Value Analysis Committee UVM Medical Center	Member
2020 - Present	Trauma Peer Review Committee UVM Medical Center	Member

UNIVERSITY SERVICE - NoneGOVERNMENT / MILITARY SERVICE

Years	Service Committee	Role
2007 - 2016	United States Army Reserve, Honorable Discharge - National Defense Service Medal - Iraq Campaign Medal with Campaign Star - Armed Forces Reserve Medal with M Device	Major
2011	AMEDD Basic Officer Leadership Course Fort Sam Houston, San Antonio, TX	Graduate
2011	US Forces – Iraq	Theater Consultant, Neurosurgery/Spine
2014	Captain Career Course Fort Sam Houston, San Antonio, TX	Graduate

SOCIETY MEMBERSHIPS

Years	Society
2004 - Present	American Association of Neurological Surgeons - Member (2014 – present) - Provisional Member (2010 – 2014) - Resident Member (2004 – 2010)
2010 - Present	New England Neurosurgical Society
2010 - 2018	Congress of Neurological Surgeons

SERVICE TO PROFESSIONAL ORGANIZATIONS

Years	Service Committee	Role
2014 - 2020	New England Neurosurgical Society, Executive Board	Member
2017 - 2019	New England Neurosurgical Society, Executive Board	Secretary
2019 - 2020	New England Neurosurgical Society, Executive Board	President
2019 - Present	Council of State Neurosurgical Societies	Delegate

SERVICE TO PROFESSIONAL PUBLICATIONS

Years	Publication	Role
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2014 Trials
2018 Neurosurgery

Ad hoc reviewer
Ad hoc reviewer

PUBLIC SERVICE

Years	Service Role	
2016 - Present	Neurosurgery & the Human Brain, Charlotte Central School • Seminar on basic neuroscience and the practice of neurosurgery for 5th grade students • Hands-on anatomy experience with a preserved human brain • Demonstration of basic neurosurgical procedures	Charlotte, VT
2022 - Present	Neurosurgery & the Human Brain, Mater Christi School • Seminar on basic neuroscience and the practice of neurosurgery for 8th grade students • Hands-on anatomy experience with a preserved human brain • Demonstration of basic neurosurgical procedures	Burlington, VT

SUMMARY OF SERVICE ACTIVITIES

At University of Vermont, I currently serve as the Division of Neurosurgery representative to the Trauma Peer Review Committee. In previous years I have also served as the Division of Neurosurgery representative to the Value Analysis Committee and have served on four search committees for neurosurgery faculty.

From 2014 to 2020, I served on the executive board of New England Neurosurgical Society (NENS) and in 2019-2020, served as its President. The Society's purpose is principally educational. It hosts an annual meeting which spans two days each summer, during which original research is presented by its members, neurosurgical resident/fellow members, and medical students. NENS also funds a variety of educational programs, including the annual University of Vermont Skull Base Surgery Course and a Neurosurgery Research and Education Foundation (NREF) Grant.

For the last eight years, I have led a two hour seminar on neurosurgery and the human brain for fifth and eighth grade students at two different local schools. As part of this experience, students are able to examine an actual, explanted human brain and in so doing, learn fundamental neuroanatomy related to the somatosensory, visual, olfactory, gustatory, and auditory systems. Students also handle real neurosurgical equipment, such as drills and other operating room implements, learning the fundamentals of basic neurosurgical procedures. The goal of this endeavor is to spark interest in science generally, and neuroscience in particular.

In 2007, I volunteered for service as a neurosurgeon in the United States Army Reserve and spent eight years as an officer attached to the AMEDD Professional Management Command. Duty consisted of monthly weekend drill sessions with the 405th Combat Support Hospital (CSH) unit, located in White River Junction, VT as well as an annual commitment to three consecutive

weeks of service. In the summer and fall of 2011, I deployed with the 1878th Head & Neck Team and Task Force 47 Medical to Ali Air Base in Talil, Iraq and subsequently, Camp Sather in Baghdad, Iraq as part of Operation New Dawn. There, I served as the Theater Neurosurgeon and Spine Surgeon for U.S. and allied forces in the region, as well as Officer-In-Charge of rapid response neurosurgical services. In these capacities, I performed trauma surgery, supervised outpatient clinics, and participated in neuro-critical care rounds. In 2015, I was honorably discharged from the Army with the rank of Major.

TEACHING

FORMAL SCHEDULED CLASSES

Year	Course Title	Course R E	Hrs	Number of Learners	Learner Level
2010 - 2016	Neurosurgery Elective/Sub-internship Geisel School of Medicine at Dartmouth		x Variable		MS 3 & 4
2010 - 2016	Neurosurgical Exposure Geisel School of Medicine at Dartmouth		x Variable		MS 3 & 4
2010 - 2016	Surgery Clerkship (Neurosurgery) Geisel School of Medicine at Dartmouth		x Variable		MS 3
2016 - Present	Neurosurgery Elective/Sub-internship UVM Larner College of Medicine		x Variable		MS 4
2016 - Present	Surgery Clerkship (Neurosurgery) UVM Larner College of Medicine		x Variable		MS 3

R-required; E-elective; Hours-approx. per semester; G-graduate studies (instruction as per the COM Teaching Academy Portfolio)

CURRICULUM DEVELOPMENT

2017 - 2020	Neurosurgery Residency Education Director University of Vermont Medical Center, Burlington, VT - Devised and implemented the Division's 2017-2018 schedule of resident lectures, conferences, and anatomy teaching sessions. - Edited and updated the University of Vermont Neurosurgery Resident Manual and University of Vermont Neurosurgery Educational Curriculum & Goals	Daily/Variable
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POSTGRADUATE AND OTHER COURSES

2010 - 2016	Neurosurgical Residency Training Program Faculty Dartmouth-Hitchcock Medical Center, Lebanon, NH	Daily/Variable
2016 - Present	Neurosurgical Residency Training Program Faculty University of Vermont Medical Center, Burlington, VT	Daily/Variable

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED

Dates	Name	Program School	Role	Current Position
2011	Jessica Fried (nee Swienckowski)	AANS Summer Research Fellowship	Research mentor	Resident, Internal Medicine, University of Pennsylvania, Philadelphia, PA

2013	Adam J. Pattison	PhD Candidate, Biomedical Engineering Thayer School of Engineering	Thesis examining committee	
2013	Sebastian Rubino	Dartmouth Medical Student	Research mentor	Resident, Neurosurgery, Albany Medical Center, Albany, NY
2012 - 2013	Rifat Zaman	Medical Student Research Fellowship	Research mentor	Medical student, Geisel School of Medicine at Dartmouth
2015 - 2016	Chad Sudoko	Dartmouth Medical Student	Research mentor	Medical student, Geisel School of Medicine at Dartmouth
2016	Benjamin Szewczyk	Visiting medical student—Albany Medical College	Preceptor	Senior AI/Medical Student
2016	Jameson Loyal	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2017	Chris Williams	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2017	Taylor Sommer	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2017	David Arsanious	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2018	Aaron Gelinne	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2019	Scott Mitchell II	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2020	Katherine Callahan	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2020	Jonathan Borden	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2021	Isi Beach	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2021	John O’Keefe	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2022	Joseph Teague	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2023	Dana Allison	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2023	Natalie Bates	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2024	Tyler VanDijk	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2025	Casey Norton	UVM Larner College of Medicine	Preceptor	Senior AI/Medical Student
2025	Jack Gerling	Visiting medical student – Saint Louis University School of Medicine	Preceptor	Senior AI/Medical Student
2025	Helen Karimi	Visiting medical student – Tufts University	Preceptor	Senior AI/Medical Student
2025	Vincy Mathew	Visiting medical student – New York Institute of Technology College of Osteopathic Medicine	Preceptor	Senior AI/Medical Student

2025	Kerolous Eldeeb	Visiting medical student – Chicago College of Osteopathic Medicine of Midwestern University	Preceptor	Senior AI/Medical Student
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DISSERTATION/THESIS COMMITTEE MEMBERSHIP

Dates	Name	Program School	Role	Current Position
2013	Adam J. Pattison	PhD Candidate, Biomedical Engineering Thayer School of Engineering	Thesis examining committee	

POSTDOCTORAL FELLOWS AND RESIDENTS DIRECTLY SUPERVISED OR MENTORED

Dates	Name	Fellow/Resident	Faculty Role	Current Position
7/2010-7/2011	Tarek Radwan, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Staff neurosurgeon, Bridgton Hospital, Lewiston, ME
7/2010-7/2012	William Spire, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Staff neurosurgeon, SCL Health, Billings, MT
7/2010-7/2013	Atman Desai, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Assistant Professor of Neurosurgery, Stanford University, Palo Alto, CA
7/2010-7/2014	George Kakoulides, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Staff neurosurgeon, Long Island Neurosurgical and Pain Specialists, West Islip, NY
7/2010-7/2015	Wesley Whitson, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Staff neurosurgeon, Wenatchee Valley Hospital & Clinics, WA
7/2010-7/2016	Kimon Bekelis, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Chairman of Neurointerventional Services, Good Samaritan Hospital, West Islip, NY
7/2015-7/2016	Imad Khan, MB, BS	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Assistant Professor of Neurosurgery, University of Washington, Seattle, WA
7/2014-7/2016	Daniel Calnan, MD, PhD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Staff neurosurgeon, Lancaster General Health, Lancaster, PA
7/2013-7/2016	Joon Kim, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Unknown
7/2012-7/2016	Brandon Root, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Fellow, cerebrovascular surgery, Washington University, St Louis, MO
7/2011-7/2016	Jennifer Hong, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Assistant Professor of Neurosurgery, Dartmouth-Hitchcock Medical Center, Lebanon, NH
7/2010-7/2016	Linton Evans, MD	Dartmouth-Hitchcock Medical Center	Bedside/OR Teaching	Assistant Professor of Neurosurgery, Dartmouth-Hitchcock Medical Center, Lebanon, NH
7/2016 – 6/2018	James Weinberg, MD	UVM Medical Center	Bedside/OR Teaching	Internal Medicine Resident, UVM Medical Center
7/2016 – 6/2019	Adam Strand, MD	UVM Medical Center	Bedside/OR Teaching	Radiology resident, UVM Medical Center
7/2016 – 6/2017	Chih-Ta Lin, MD	UVM Medical Center	Bedside/OR Teaching	Staff neurosurgeon, Goodman-Campbell Brain & Spine, Indianapolis, IN
7/2016 – 6/2018	Katrina Ducis, MD	UVM Medical Center	Bedside/OR Teaching	Assistant Professor of Surgery (Neurosurgery), UVM Medical Center, Burlington, VT

7/2016 – 6/2019	Erinc Akture, MD	UVM Medical Center	Bedside/OR Teaching	Fellow, Skull base surgery, Baptist Medical Center, Jacksonville, FL
7/2016 – 6/2022	Adam Olszewski, MD	UVM Medical Center	Bedside/OR Teaching	Fellow, Skull Base Surgery, House Clinic, Los Angeles, CA
7/2018 – 6/2022	Natalie Limoges, MD	UVM Medical Center	Bedside/OR Teaching	Fellow, Pediatric Neurosurgery, Stanford University, Palo Alto, CA
7/2016 – 6/2023	John Muse, MD	UVM Medical Center	Bedside/OR Teaching	Fellow, Cerebrovascular Neurosurgery, Baptist Medical Center, Jacksonville, FL
7/2017 – 6/2024	Raj Thakrar, MD	UVM Medical Center	Bedside/OR Teaching	Fellow, Complex Spine Surgery, Brown University, Providence, RI
7/2018 – 6/2025	Luke Silveira, MD	UVM Medical Center	Bedside/OR Teaching	Fellow, Cerebrovascular, Semmes-Murphey Clinic, Memphis, TN
7/2019 – 6/2023	Erin D'Agostino	UVM Medical Center	Bedside/OR Teaching	Resident, Neurology, UVM Medical Center
8/2019 - Present	Dylan Adams, MD	UVM Medical Center	Bedside/OR Teaching	PGY6—Neurosurgery Resident
2021 - Present	Katherine Callahan, MD	UVM Medical Center	Bedside/OR Teaching	PGY5—Neurosurgery Resident
2022 - Present	Katherine Zerebiec, MD	UVM Medical Center	Bedside/OR Teaching	PGY4—Neurosurgery Resident
2023 - Present	Christina Ng, MD	UVM Medical Center	Bedside/OR Teaching	PGY4—Neurosurgery Resident
2023 - Present	Elizabeth Wicks, MD	UVM Medical Center	Bedside/OR Teaching	PGY3—Neurosurgery Resident
2024 - Present	Craig Methot, MD	UVM Medical Center	Bedside/OR Teaching	PGY2—Neurosurgery Resident
2025 – Present	Erik Werheim, MD	UVM Medical Center	Bedside/OR Teaching	PGY1—Neurosurgery Resident

INFORMAL TEACHING

Informal teaching is a cornerstone of resident medical education, particularly in surgical specialties, and it occurs on a continuous, daily basis during bedside rounds and during operative procedures. As a staff neurosurgeon at the University of Vermont Medical Center, I am one of five attending neurosurgeons charged with preparing resident physicians for the clinical, surgical, and ethical challenges they will face in their future career as neurosurgeons.

FACULTY MENTORED

Date	Name	Position while Mentored	Faculty Role	Current Position
2018	Brandon Liebelt, MD	Assistant Professor, Neurosurgery	Mentor	Assistant Professor, University of Texas, San Antonio, TX
2021	Katrina Ducis, MD	Assistant Professor, Neurosurgery	Mentor	Same

2022	Chason Ziino, MD	Assistant Professor, Orthopedic Surgery	Mentor	Same
2025	Nathaniel Sinz, MD	Assistant Professor, Orthopedic Surgery	Mentor	Same

OTHER VISITING FACULTY SUPERVISED - None

TEACHING AIDS

1. *Neurosurgery: What's the Data?* App for iPhone. Author and publisher. Subscription-based services that provide up-to-date summaries of high-quality evidence for clinical decision-making in neurosurgery. Includes 1489 references, mostly of modern, randomized-controlled trials in neurosurgery. As of January 2026, there are 872 annual paid subscriptions.
2. *Spine: What's the data?* App for iPhone. Author and publisher. Subscription-based services that provide up-to-date summaries of high-quality evidence for clinical decision-making in neurosurgery. Includes 402 references, mostly of modern, randomized-controlled trials. As of January 2026, there are 451 annual paid subscriptions.
3. *Neuro-oncology: What's the Data?* App for iPhone. Author and publisher. Subscription-based services that provide up-to-date summaries of high-quality evidence for clinical decision-making in neurosurgery. Includes 319 references, mostly of modern, randomized-controlled trials. As of January 2026, there are 159 annual paid subscriptions.
4. *Cerebrovascular: What's the data?* App for iPhone. Author and publisher. Subscription-based services that provide up-to-date summaries of high-quality evidence for clinical decision-making in neurosurgery. Includes 379 references, mostly of modern, randomized-controlled trials. As of January 2026, there are 258 annual paid subscriptions.

TEACHING AWARDS AND NOMINATIONS - None

SUMMARY OF TEACHING ACTIVITIES

- As a member of the neurosurgical faculty, I participate in weekly pre-operative case conferences for both neurosurgery and the combined orthopedic/neurosurgery service, during which residents are instructed in pre-operative and peri-operative decision making.
- On a quarterly basis, I provide a mock oral board review for neurosurgery residents on subjects including head trauma, general neurosurgery, and complex spinal surgery.
- Each year, I contribute 3 to 4 one hour-long lectures on fundamental spinal pathology to the monthly Tuesday morning didactic schedule for orthopedic and neurosurgery residents.
- On a daily basis, I provide formal and informal instruction on pre-, peri-, and post-operative inpatient care to UVM neurosurgical residents and medical students in a variety of settings, including the operating room, outpatient clinic, intensive care unit, and hospital wards.

RESEARCH AND SCHOLARLY ACTIVITIES

RESEARCH AWARDS AND GRANTS**Ongoing Research Support - None****Completed Research Support**

NIH/NiBIB Grant #3 R01 PI: Lollis/Paulsen 12/01/2004 - 7/31/2007
 EB004632-02S1. Award amount \$300,000

Advanced Magnetic Resonance Elastography: Resident Research. This was a supplemental grant to investigate the use of magnetic resonance elastography (MRE) in a feline model of hydrocephalus. It was associated with an R01 grant investigating MRE more generally. I was the PI on the supplemental resident research grant, while the R01 was held by Keith Paulsen, PhD, a faculty member in Biomechanical Engineering at the Thayer School at Dartmouth.

Robert W. Crichlow Career PI: Lollis 09/01/2013 – 01/01/2016
 Development Award in Surgery Award amount \$159,900
 Development of an automated, continuous, radiation-free co-registration system for use in image-guided spine surgery.

Pending – None**Selected Unfunded Grant Submissions – None****OTHER RESEARCH/CLINIC ACTIVITIES**

2004 - 2009 Research associate, DHMC glioma vaccine clinical trial
 2006 - 2014 Principal investigator: Magnetic resonance elastography in hydrocephalus
 1. Utility of MRE in diagnosis in a feline model of hydrocephalus
 2. Human trial of MRE in diagnosis of normal pressure hydrocephalus
 2011 – 2015 Utility of follow-up imaging for spinal fusion and cerebral contusion
 2012 – 2016 A standardized care path for management of non-operative thoracolumbar fractures
 2012 – 2015 SPORT: Role of facet effusion in predicting surgical outcome in spondylolisthesis
 2012 – 2016 Outcomes after inter-hospital helicopter and ground transport for neurosurgical care
 2014 – 2017 Use of stereovision and 3-D tracked ultrasound for co-registration of a spinal surgical field
 2014 – 2017 Non-operative management of odontoid pseudoarthrosis
 2018 – 2020 Co-investigator: The Effect of Perioperative Intravenous Lidocaine infusion on Opioid Consumption after Lumbar Spine Surgery, CHRMS 18-0111
 2018 – 2020 Principal Investigator: Referral patterns to spine and neurosurgery clinics, CHRMS 18-0230

SCHOLARSHIP

Peer Reviewed Publications

Original Research

1. Stewart RD, **Lollis SS**, Lahey SJ, Levitsky S, Campos CT. Functional outcome 1 year after coronary artery bypass. *Surg Forum*. 50: 663-664, 1999
2. Stewart RD, Doyle J, **Lollis SS**, Stone MD. Surgical resident research in New England. *Arch Surg*. 2000 Apr;135(4):439-44. PMID: 10768709
3. Stewart RD, Campos CT, Jennings B, **Lollis SS**, Levitsky, Lahey SJ. Predictors of 30-day hospital readmission after coronary artery bypass. *Ann Thorac Surg*. 2000 Jul;70(1):169-74. PMID: 10921703
4. **Lollis SS**, Wolak ML, Mamourian AC. Imaging characteristics of the subdural evacuating port system, a new bedside therapy for subacute/chronic subdural hematoma. *Am J Neuroradiol*. 2006 Jan;27(1):74-5. PMID: 16418360
5. **Lollis SS**, Hug EB, Gladstone DJ, Chaffee S, Duhaime AC. Acquired Chiari malformation type 1 following fractionated radiation therapy to the anterior skull base in a 20 month old boy. Case report. *J Neurosurg*. 2006 Feb;104(2 Suppl):133-7. doi: 10.3171/ped.2006.104.2.10. doi: 10.3171/ped.2006.104.2.10. PMID: 16506501
6. Hopkin J, Mamourian A, **Lollis S**, Duhaime T. The next extreme sport? Subdural haematoma in a patient with arachnoid cyst after head shaking competition, *Br J Neurosurg*. Apr;20(2): 111-113, 2006. PMID: 16753631
7. **Lollis SS**, Weider DJ, Phillips JM, Roberts DW. Ventriculoperitoneal shunt insertion for the treatment of refractory perilymphatic fistula, *J Neurosurg*. Jul;105(1): 1-5, 2006. doi:10.3171/jns.2006.105.1.1. doi: 10.1080/02688690600682671. PMID: 16874885
8. Weaver JB, Perrinez PR, Bergeron JA, Kennedy FE, Wang H, **Lollis SS**, Doyley MM, Hoopes PJ, Paulsen KD. The effects of interstitial tissue pressure on the measured shear modulus in vivo, *Proc SPIE*. Vol 6511, 65111A, 2007. doi: 10.1117/12.713781
9. **Lollis SS**, Roberts DW. Robotic catheter ventriculostomy: feasibility, efficacy, and implications, *J Neurosurg*. Feb;108(2):269-74, 2008. doi: 10.3171/JNS/2008/108/2/0269. PMID: 18240921
10. Perrinez P, **Lollis S**, Kennedy F, Weaver J, Paulsen K. Magnetic resonance poroelastography of the feline brain, *Proc ISMRM*. 2009: 4351.
11. Liu F, **Lollis SS**, Ji S, Paulsen KD, Hartov A, Roberts DW. Model-based estimation of ventricular deformation in the cat brain. *Med Image Comput Comput Assist Interv*. 12(Pt 2): 308-15, 2009. PMID: 20426126. PMCID: PMC2872193
12. Desai AD, **Lollis SS**, Missios S, Radwan T, Zuaro DE, Schwarzman JD, Duhaime AC. How long should cerebrospinal fluid cultures be held to detect infections? *J Neurosurg Pediatr*. Aug;4(2): 184-189, 2009. doi: 10.3171/2009.4.PEDS08279. PMID: 19645555
13. Pattison AJ, **Lollis SS**, Perrinez PR, Weaver JB, Paulsen KD. MR elastography of hydrocephalus. *Proc SPIE* Vol 7262, 72620A, 2009. doi: 10.1117/12.811820
14. **Lollis SS**, Hoopes PJ, Kane S, Paulsen K, Weaver J, Roberts DW. Low-dose kaolin-induced hydrocephalus and feline ventriculostomy: an updated model, *J Neurosurg Pediatr*. Oct;4(4): 383-388, 2009. PMID: 19834994. PMCID: PMC3759808
15. **Lollis SS**, Roberts DW. Robotic placement of a CNS ventricular reservoir for administration of chemotherapy, *Br J Neurosurg*. 23(5): 516-520, 2009. doi: 10.1080/02688690902948192. PMID: 19669983
16. **Lollis SS**, Mamourian AC, Vaccaro TJ, Duhaime AC. Programmable CSF shunt valves:

- radiographic identification and interpretation, *AJNR Am J Neuroradiol.* Aug;31(7): 1343-6, 2010. doi: 10.3174/ajnr.A1997. Epub 2010 Feb 11. PMID: 20150313
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Non-Peer Reviewed Publications

Review Articles

1. **Lollis SS:** Book review. Nowinski et al: The Cerefy clinical brain atlas, enhanced edition with surgical planning and intraoperative support. *Stereotact and Funct Neurosurg* 84(2-3): 126-7, 2006.
2. **Lollis SS:** Book review. Alleyne Jr JC, Citow JS: Neurosurgery Board Review: questions and answers for self-assessment. *Young Neurosurgeons' Newsletter*, Fall 2006.

Books and Chapters

1. **Lollis SS** and Nikas D: Entrapment Neuropathies of the Lower Extremity. In Roberts DW, Schmidek HS (eds): *Operative Neurosurgery*. Philadelphia: *Elsevier*, 2005.
2. **Lollis SS**, Quebada PB, Friedman JA: Traumatic brain injury. In Young GB, Wijdicks E (eds): *Handbook of Clinical Neurology, Disorders of Consciousness*, Vol 90. Amsterdam, The Netherlands: *Elsevier*, 2008, pp. 217-29.
3. **Lollis SS**, Ball PA: Medical Management of the Patient with Acute Spinal Cord Injury. In Benzel (ed): *Spine Surgery: Techniques, Complications Avoidance, and Management*, 3rd Edition. Philadelphia: *Elsevier*, 2012.
4. **Lollis SS:** Applied Anatomy of the Thoracic and Lumbar Spine. In Benzel (ed): *Spine Surgery: Techniques, Complications Avoidance, and Management*, 3rd Edition. Philadelphia: *Elsevier*, 2012.
5. **Lollis SS:** Applied Anatomy of the Thoracic and Lumbar Spine. In Benzel (ed): *Spine Surgery: Techniques, Complications Avoidance, and Management*, 4th Edition. Philadelphia: *Elsevier*, 2016.
6. **Lollis SS:** Applied Anatomy of the Thoracic and Lumbar Spine. In Steinmetz (ed): *Spine Surgery: Techniques, Complications Avoidance, and Management*, 5th Edition. Philadelphia: *Elsevier*, 2021.

Other Scholarly Publications - None

Abstracts - None

Patents Issued or Pending - None

Other Creative Activities

Electronic media:

1. **Lollis SS**, Duhaime AC: Radiographic appearance of CSF shunt valves. AANS/CNS Joint Section for Pediatric Neurosurgery: <http://www.pedsneurosurgery.org/education>
2. **Lollis SS:** Neurosurgery: What's the Data? iPhone application. 2012 to present.
3. **Lollis SS:** Spine: What's the Data? iPhone application. 2015 to present.
4. **Lollis SS:** Neuro-oncology: What's the Data? iPhone application. 2020 to present.
5. **Lollis SS:** Cerebrovascular: What's the Data? iPhone application. 2022 to present.

Quality Improvement and Patient Safety Activities

2024 to Present	In conjunction with representatives of emergency medicine and radiology, design and implement network-wide protocol for interhospital transfer versus local emergency department management for traumatic brain injury, using modified Brain Injury Guidelines
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2025 to Present	In conjunction with endocrinology, design and impletement multidisciplinary pathway for efficient identification and treatment of osteoporosis and osteopenia before elective and semi-elective spine surgery
2025 to Present	In conjunction with hospitalist medicine service, design and implement protocol for medicine co-management of neurosurgery inpatients, with goal of improving care and outcomes

SUMMARY OF SCHOLARLY ACTIVITIES

My previous research focused on the application of stereovision and tracked three-dimensional ultrasound as means of performing intra-operative co-registration of the bony spine. This work was a collaborative effort with the Department of Biomedical Engineering at the Thayer School of Engineering at Dartmouth and was made possible by the Crichlow Award, a \$159,900 intramural grant for translational research. This project demonstrated the feasibility of accurate registration of the exposed spine with pre-operative imaging using stereoscopic images. We also developed and tested an algorithm that enables compensation for intra-operative motion. To date, our group has published five peer-reviewed articles on this research and presented at six national- or international-level conferences.

My current clinical research interests are outcomes following spinal fusion for degenerative disease and lumbar discectomy and application of trauma triage algorithms to our far-flung, rural health system. I am also pursuing funding for a joint project with the Center for Biomedical Innovation to develop a custom cervical orthosis for post-operative cervical spinal fusion patients.

INVITED PRESENTATIONS

Regional

2005	New England Neurosurgical Society Annual Meeting “Case Report: Failure of Vertebroplasty Due to Progression of Unrecognized Lymphoma”	Boston, MA
2006	New England Neurosurgical Society Annual Meeting “Ventriculoperitoneal shunting for refractory perilymphatic fistula”	Burlington, VT
2007	Annual Neuroscience Day at Dartmouth “Robotic catheter ventriculostomy: feasibility, efficacy, and implications”	Lebanon, NH
2007	New England Neurosurgical Society Annual Meeting “Robotic catheter ventriculostomy: feasibility, efficacy, and implications”	Newport, RI,
2008	New England Neurosurgical Society Annual Meeting “Cause-specific mortality among neurosurgeons”	Chatham, MA
2009	New England Neurosurgical Society Annual Meeting “MR elastography in a feline model of hydrocephalus”	New Castle, NH
2011	Dartmouth-Hitchcock Medical Center, Grand Rounds, Department of Surgery	Lebanon, NH

	“Metastatic Disease of the Spine”	
2011	Concord Hospital Trauma Conference	Concord, NH
	“Current Management of Head Trauma”	
2013	Springfield Hospital Grand Rounds	Springfield, VT
	“Head Injury”	
2013	Brattleboro Memorial Hospital Grand Rounds	Brattleboro, VT
	“Lumbar Degenerative Conditions: Who Needs a Spine Surgeon?”	
2013	New England Neurosurgical Society Annual Meeting	Chatham, MA
	“Outpatient follow-up of non-operative cerebral contusion and traumatic subarachnoid hemorrhage: does repeat head computed tomography alter clinical decision-making?”	
2013	New England Neurosurgical Society Annual Meeting	Chatham, MA
	“Helicopter transport of patients with spontaneous subarachnoid hemorrhage”	
2014	New England Neurosurgical Society Annual Meeting	Brewster, MA
	“Analysis of Lumbar Facet Fluid on MRI: Relationship to Instability in Degenerative Spondylolisthesis and Surgical Outcomes”	
2016	Spine Grand Rounds	Burlington, VT
	UVM Larner College of Medicine	
	“Metastatic Disease of the Spine”	
2016	Neurological Science/Neurosurgery Grand Rounds	Burlington, VT
	UVM Larner College of Medicine	
	“Stereovision Co-Registration for Spinal Surgery”	
2016	Neurological Science/Neurosurgery Grand Rounds	Burlington, VT
	UVM Larner College of Medicine	
	“Spinal Cord Injury: Guidelines, Science, and Future Directions”	
2018	New England Neurosurgical Society Annual Meeting	Chatham, MA
	“Predictors of Non-operative Referrals to Neurosurgery”	
National		
2006	American Association of Neurological Surgeons Annual Meeting	San Francisco, CA
	“Ventriculoperitoneal shunting for refractory perilymphatic fistula”	
2007	Congress of Neurological Surgeons Annual Meeting	San Diego, CA
	“Implementing intraoperative angiography for aneurysm surgery – lessons learned and practical considerations”	
2007	Congress of Neurological Surgeons Annual Meeting	San Diego, CA
	“How long should CSF cultures be held to detect shunt infections?”	
2007	Congress of Neurological Surgeons Annual Meeting	San Diego, CA

	“Robotic catheter ventriculostomy: feasibility, efficacy, and implications”	
2008	Congress of Neurological Surgeons Annual Meeting	Orlando, FL
	“Low-dose kaolin-induced feline hydrocephalus and feline ventriculostomy: An updated model”	
2009	American Association of Neurological Surgeons Annual Meeting	San Diego, CA
	“Fluorescence-guided tumor resection: Correlation between local fluorescence and MRI-enhancement”	
2013	American Association of Neurological Surgeons Annual Meeting	New Orleans, LA
	“Utility of routine outpatient cervical spine imaging following anterior cervical corpectomy and fusion”	
2014	American Association of Neurological Surgeons Annual Meeting,	San Francisco, CA
	“Interfacility helicopter transport of patients with spontaneous subarachnoid hemorrhage”	
2014	American Association of Neurological Surgeons Annual Meeting	San Francisco, CA
	“Outpatient follow-up of non-operative cerebral contusion and traumatic subarachnoid hemorrhage: Does repeat head computed tomography alter clinical decision-making?”	
2014	Congress of Neurological Surgeons	Boston, MA
	“Analysis of the facet joint fluid on MRI and its relationship to instability in degenerative spondylolisthesis and outcomes following surgery”	
2014.	Congress of Neurological Surgeons	Boston, MA
	“Arrested hydrocephalus treated with third ventriculostomy”	
2015	American Association of Neurological Surgeons Annual Meeting	Washington, DC
	“Registration with intraoperative stereovision in image-guided open spinal fusion”	
2015	Congress of Neurological Surgeons	New Orleans, LA
	“Accuracy of intra-operative stereovision for registration of a spinal surgical field using explanted porcine spines”	
2015	Congress of Neurological Surgeons	New Orleans, LA
	“Intraoperative CT as a registration benchmark for intervertebral motion compensation in image-guided open spinal surgery”	
2015	American Congress of Rehabilitation Medicine Annual Conference	Dallas, TX
	“Multidisciplinary development of bracing protocol for stable thoracolumbar fractures”	

2016	Medical Imaging 2016: Image-Guided Procedures, Robotic Interventions, and Modeling, Proceedings of SPIE “Automatic geometric rectification for patient registration in image-guided spinal surgery”	San Diego, CA
2016	American Association of Neurological Surgeons 84th Annual Meeting “Natural history of odontoid pseudoarthrosis managed non-operatively”	Chicago, IL
2019	American Association of Neurological Surgeons 87th Annual Meeting “Differential Patterns of Referral to Neurosurgery: A Comparison of Allopathic Physicians, Osteopathic Physicians, Nurse Practitioners, Physician Assistants, and Chiropractors”	San Diego, CA
International		
2015	The 6th International Conference on Information Processing in Computer-Assisted Intervention “Intraoperative CT as a registration benchmark for intervertebral motion compensation in image-guided open spinal surgery”	Barcelona, Spain
2015	International Conference on Medical Image Computing and Computer Assisted Interventions “Patient registration via topologically encoded depth projection images in spine surgery”	Munich, Germany