

Tina Doshi, MD, MHS

CURRICULUM VITAE

The Johns Hopkins University School of Medicine

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

University

- 2016-present Assistant Professor, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University School of Medicine
- 2018-present Assistant Professor, Department of Neurological Surgery, Johns Hopkins University School of Medicine

Hospital

- 2016-present Attending Physician, Johns Hopkins Hospital
- 2016-present Attending Physician, Howard County General Hospital

Education and Training

Undergraduate

- 2007 BS, Biochemistry, University of Virginia, Charlottesville, VA; with distinction
- 2007 BA, Human Biology/Bioethics, University of Virginia, Charlottesville, VA; with highest distinction

Doctoral

- 2011 MD, Duke University School of Medicine, Durham, NC

Postdoctoral

- 2011-2012 Intern, Anesthesiology, Barnes-Jewish Hospital, Washington University, St. Louis, MO
- 2012-2015 Resident, Anesthesiology, Barnes-Jewish Hospital, Washington University, St. Louis, MO
- 2014-2015 Chief Resident, Anesthesiology, Barnes-Jewish Hospital, Washington University, St. Louis, MO
- 2015-2016 Fellow, Pain Medicine, Johns Hopkins Hospital, Baltimore, MD
- 2016-2018 MHS, Clinical Investigation, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 2016-2018 Fellow, T32 Postdoctoral Research Training Program in Anesthesiology, Johns Hopkins University, Baltimore, MD
- 2019-2020 Post-Master's Certificate, Program in Sequence Analysis and Genomics, Johns Hopkins University, Baltimore, MD

Professional Experience

- 2016-present Assistant Professor, Johns Hopkins University School of Medicine, Baltimore, MD

PUBLICATIONS

Original Research [OR]

1. Maher DP, Zhang Y, Ahmed S, **Doshi T**, Malarick C, Stabach K, Mao J, Chen L. Chronic opioid therapy modifies QST changes following ketamine infusion in chronic pain patients. *J Pain*. 2017 Dec;18(12):1468-1475.
2. Maher DP, Martins YC, **Doshi T**, Bicket M, Zhang K, Hanna G, Ahmed S. Neuropathic Pain Medication Use Does Not Alter Outcomes of Spinal Cord Stimulation for Lower Extremity Pain. *Neuromodulation*. 2018 Jan;21(1):106-113.
3. Cohen SP, **Doshi TL**, Constantinescu OC, Zhao Z, Kurihara C, Larkin TM, Griffith SR, Jacobs MB, Kroski WJ, Dawson TC, Fowler IM, White RL, Verdun AJ, Jamison DE, Anderson-White M, Shank SE, Pasquina PF. Effectiveness of Lumbar Facet Joint Blocks and Predictive Value before Radiofrequency Denervation: The Facet Treatment Study (FACTS), a Randomized, Controlled Clinical Trial. *Anesthesiology*. 2018 Sep;129(3):517-535.
4. Wu A, **Doshi TL**, Hung A, Garzon-Muvdi T, Bender MT, Bettgowda C, Lim M. Immediate and Long-Term Outcomes of Microvascular Decompression for Mixed Trigeminal Neuralgia. *World Neurosurgery*. 2018 Sep 1;117:e300-7.
5. Cohen S, **Doshi T**, Dawson T, Gupta A, Durbhakula S, Constantinescu OC, Jacobs M, Verdun AV, Salisu M, Griffith SR, Kurihara C. Prognostic value of hypersensitivity reactions on epidural steroid injection outcomes: a phenotypic signature? A prospective cohort study. 2019 May;44(5):586-594.

- Xie E, Garzon-Muvdi T, Bender M, **Doshi T**, Carson B, Lim M, Bettegowda C. Association Between Radiofrequency Rhizotomy Parameters and Duration of Pain Relief in Trigeminal Neuralgia Patients with Recurrent Pain. *World neurosurgery*. 2019 Sep 1;129:e128-33.
- Doshi TL**, Richter HC, Salisu M, Samen C. Female Representation in Pain Medicine Fellowships, 2017-2018. *Pain Med*. 2019 Oct 26. pii: pnz274.
- Cavallone LF, Montana MC, Frey K, Kallogjeri D, Wages JM, Rodebaugh T, **Doshi T**, Kharasch ED, Gereau RW. The Metabotropic Glutamate Receptor 5 Negative Allosteric Modulator Fenobam: Pharmacokinetics, Side Effects, and Analgesic Effects in Healthy Human Subjects. *PAIN*. 2020 Jan;161(1):135-146.
- Cohen SP, **Doshi TL**, Kurihara C, Dolomisiewicz E, Liu RC, Dawson TC, Hager N, Durbhakula S, Verdun AV, Hodgson JA, Pasquina PF. Waddell (Non-Organic) Signs and Their Association with Interventional Treatment Outcomes for Low Back Pain. *Anesth Analg*. 2021 Mar 1;132(3):639-651.
- Sethi N, Doshi A, **Doshi T**, Cross R, Cronin I, Amin E, Kanter J, Scheel J, Khan S, Campbell-Washburn A, Olivieri L. Quantitative cardiac magnetic resonance T2 imaging offers ability to non-invasively predict acute allograft rejection in children. *Cardiology in the Young*. 2020 May 27:1-8.
- Singhal DK, Bank A, Poorman JA, **Doshi TL**, Parekh R, Parangi S, Hopf HW, Chandrabose R, Larson AR, Silver JK. Representation of women plenary speakers at the American Academy of Neurology annual meeting. *Neurology*. 2020 Dec 1;95(22):e3045-e3059. (epub ahead of print)
- Cohen SP, **Doshi TL**, Kurihara C, Reece DE, Dolomisiewicz E, Phillips CR, Dawson TC, Jamison DE, Young R, Pasquina PF. Multi-Center Study Evaluating Factors Associated with Treatment Outcome for Low Back Pain Injections. *Regional Anesthesia and Pain Med*. 2022;47:89-99.

Review Articles [RA]

Peer Reviewed

- Le TP**, Gan TJ. Update on the Management of Postoperative Nausea and Vomiting and Postdischarge Nausea and Vomiting in Ambulatory Surgery. *Anesthesiol Clin*. 2010 Jun;28(2):225-49.
- Hung AL**, Lim M, **Doshi TL**. Targeting Cytokines for Treatment of Neuropathic Pain. *Scan J Pain*. 2017 Oct;17:287-293.
- Campbell CM, Gilron I, **Doshi T**, Raja S. Designing and conducting proof-of-concept chronic pain analgesic clinical trials. *PAIN Reports*. 2019 May;4(3):e697.
- Doshi TL**, Nixdorf DR, Campbell CM, Raja SN. Biomarkers in Temporomandibular Disorder and Trigeminal Neuralgia: A Conceptual Framework for Understanding Chronic Pain. *Canadian Journal of Pain*. 2020 Jan 1;4(1):1-8.

Non-Peer Reviewed

- Limerick G, **Doshi TL**. "Utilizing CGRP Antagonists for Non-Migraine Indications." *Pract Pain Manag*. 2021 Jul; 21(3). Available at: <https://www.practicalpainmanagement.com/treatments/pharmacological/non-opioids/utilizing-cgrp-antagonists-non-migraine-indications> ("Most Read" article on *Practical Pain Management* website for August 2021)
- Cohen EZ, **Doshi TL**. "Diet and Diet and Dietary Supplements in Chronic Pain." *ASRA News*. 2021 Nov; 46. <https://doi.org/10.52211/asra110121.070>

Case Reports [CR]

- Doshi TL**, Kangrga I, Vannucci A. Hyperostosis Frontalis Interna as a Potential Source of Cerebral Oximetry Signal Interference: A Case Report. *Eur J Anes*. 2015 Jun;32(6):448-50.

Book Chapters, Monographs [BC]

- Le TP**, Gan TJ. "Postoperative Nausea and Vomiting." *Perioperative Medicine: Medical Consultation and Co-management*. Eds. Amir Jaffer and Paul Grant. Hoboken, NJ: Wiley-Blackwell, 2012.
- Doshi T**, Norris A, Vannucci A. "Glossary: Introduction to Patient Safety Terminology." *Washington Manual of Patient Safety and Quality Improvement*. Eds. Emily Fondahn, Mike Lane, and Andrea Vannucci. Wolters Kluwer Health-Lippincott Williams & Wilkins, 2016

Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

- Le TP**, Waldron N, Habib AS, Gan TJ. *Memantine and Postoperative Pain*. ClinicalTrials.gov [Internet]. Bethesda, MD: National Library of Medicine (U.S.). (2000, February 29 –). Identifier NCT01032759. Available from: <https://clinicaltrials.gov/ct2/show/NCT01032759>
- Doshi TL**, Dworkin RH, Polomano RC, Carr DB, Edwards RR, Finnerup NB, Freeman RL, Paice JA, Weisman SJ, Raja SN. AAAPT diagnostic criteria for acute neuropathic pain. *Pain Medicine*. 2021 Mar;22(3):616-36.

Editorials [ED]

Peer Reviewed

1. **Doshi TL**, Cohen SP. “Cracks in the Against Epidural Steroids: Examining the Evidence for Vertebral Fracture Risk.” *Pain Med.* 2018 Mar 1;19(3):417-418.
2. **Doshi TL**, Bicket MC. “Why Aren’t There More Female Pain Medicine Physicians?” *Reg Anes Pain Med.* 2018 Jul 1;43(5):516-20.
3. **Doshi TL**, Tesarz J, Cohen SP. “Nerve Growth Factor Inhibitors for Low Back Pain: Balancing the Risks and Benefits.” *PAIN.* 2020 Sep 1;161(9):1941-2.
4. **Doshi TL**, Staats PS. “fMRI in Vagus Nerve Stimulation for Migraine: A Biomarker-Based Approach to Pain Research.” *Reg Anest Pain Med.* 2021 Jun 1;46(6):467-8.
5. Strand NH, Goree JH, Freeman JA, **Doshi TL**, Narouze S, Mariano ER, Pearson ACS. “Racism in Pain Medicine: We Can and Should Do More.” *Mayo Clin Proc.* 2021 Jun 1 (Vol. 96, No. 6, pp. 1394-1400). Elsevier.

Non-Peer Reviewed

1. **Doshi TL**. “The Many Gender Gaps in Pain Medicine.” *Pract Pain Manag.* 2018 Jul;18(5). Available at: <https://www.practicalpainmanagement.com/resources/clinical-practice-guidelines/many-gender-gaps-pain-medicine>
2. **PPM Editorial Board**. “The Future of Pain Management” *Pract Pain Manag.* 2019 Feb; 19(1):25-33. <https://www.practicalpainmanagement.com/resources/practice-management/future-pain-management>
3. **Doshi TL**. “The Inter-Agency Pain Management Task Force Final Draft Report on Best Practice: What Providers Should Know.” *Pract Pain Manag.* 2019 May 17. Available at: <https://www.practicalpainmanagement.com/resources/news-and-research/inter-agency-pain-management-task-force-final-draft-report-best-practice>

Letters, Correspondence [LT]

1. Rider EA, Diekman S, **Doshi TL**, Gautam M, Silver JK. “Answering the challenge: diversity, equity, and inclusion as a key to professionalism.” *Am J Med.* 7 Apr 2020, 133(6):e333.
2. **Doshi TL**, Samen C, Richter HC. “Exploring the Gender Gap in Pain Medicine Training: Challenges and Opportunities.” *Pain Med.* 2021 Feb 4;22(1):220-221. doi: 10.1093/pm/pnaa302.

Published Curricula [PC], Learner Assessment Tools, Educational Evaluations, Assessment/Evaluation Instruments [PC]

1. Ackerly DC et al. The State of the Duke University School of Medicine: Students’ Perspective, Results from the 2008 LCME Student Survey. June 18, 2008.

Media Releases or Interviews [MR]

- 1/7/18 Interviewed by Raj Gupta and Eric Schwenk for “Women in Regional Anesthesia and Pain Medicine,” *ASRA RAPP Podcast Series*, 7 January 2018. <https://www.asra.com/page/290/asra-rapp-podcast-series#Episode19>
- 1/17/19 Interviewed and quoted by Angie Drakulich for *Practical Pain Management*, “Pediatric Pain Assessment & Caregiver Perception,” available at <https://www.practicalpainmanagement.com/resources/news-and-research/pediatric-pain-assessment-caregiver-perception>
- 6/20/19 Interviewed and quoted by Steven Aliano for *Practical Pain Management*, “Pain Memories’ Exhibited Primarily in Males,” available at <https://www.practicalpainmanagement.com/patient/resources/pain-self-management/pain-memories-exhibited-primarily-males>
- 6/2019 Featured and quoted in *ASA Monitor* issue on “Diversity: The Changing Face of Anesthesiology”, introduction by James C. Eisenach in “FAER ...Celebrating Different Perspectives”, *ASA Monitor* 2019;83(6):58-59.
- 11/12/19 Feature by Christine Morgan in *University of Minnesota Department of Neurosurgery News and Events*, “Researchers and clinicians working together to better understand rare facial pain condition host visiting professor,” available at <https://med.umn.edu/news-events/researchers-and-clinicians-different-disciplines-who-work-together-better-understand-rare-facial-pain-condition-host-visiting-professor>
- 11/14/19 Interviewed and quoted by Sunali Wadehra for *Practical Pain Management*, “Managing Pain (and Function) in Osteoarthritis: Are Patients and Physicians on the Same Page?” available at <https://www.practicalpainmanagement.com/meeting-summary/managing-pain-function-osteoarthritis-are-patients-physicians-same-page>
- 3/4/20 Interviewed by Beth Howard for *AAMC News* on women in pain medicine
- 3/26/20 Interviewed by Bob Kronmyer for *Pain Medicine News*, “More Study Needed Into Analgesic Response, Depression Relief from IV Ketamine” available at <https://www.painmedicineneeds.com/Multimedia/Article/05-20/More-Study-Needed-Into-Analgesic-Response-Depression-Relief-From-IV-Ketamine/58623>

- 4/10/20 Interviewed by Kaitlin Sullivan for *Pain Medicine News*, “Early Research Shows Accuracy of Sweat Testing in Monitoring Patients’ Pain Medication” available at <https://www.painmedicineneeds.com/Science-and-Technology/Article/07-20/Early-Research-Shows-Accuracy-of-Sweat-Testing-in-Monitoring-Patients-Pain-Medication/58917>
- 4/29/20 Interviewed by Catlin Nalley for *ASA Monitor*, “NSAIDs in Pain Management: New Clinical Avenues to Explore” available at <https://monitor.pubs.asahq.org/article.aspx?articleid=2766287>
- 5/8/20 Reviewer and contributor for *Practical Pain Management*, “COVID-19: How Pain Patients Can Take Control (Infographic)” available at <https://www.practicalpainmanagement.com/patient/COVID-pain-patients-symptoms-medications-mentalhealth>
- 6/8/21 Interviewed by Bob Kronemyer for *Pain Medicine News*, “NSAID Prescriptions Remain Flat After Enactment of Florida Opioid Restriction Law” available at <https://www.painmedicineneeds.com/Policy-and-Management/Article/08-21/Florida-NSAIDs-Opioids-Legislation/64258>
- 7/29/21 Featured in *Practical Pain Management*, “Meet the Women Changing Pain Medicine” available at <https://www.practicalpainmanagement.com/resources/practice-management/meet-women-changing-pain-medicine>
- 7/29/21 Quoted in *Practical Pain Management*, “Male Clinicians as Allies in Women’s Leadership: What Your Female Peers Want You to Know” available at <https://www.practicalpainmanagement.com/resources/practice-management/male-clinicians-allies-women-leadership-what-your-female-peers-want-you>
- 7/29/21 Quoted in *Practical Pain Management*, “Woman to Woman: Leaders Share Advice for the Next Generation of Pain Medicine Clinicians” available at <https://www.practicalpainmanagement.com/resources/practice-management/woman-woman-leaders-share-advice-next-generation-pain-medicine-clinici>
- 8/20/21 Interviewed by Bob Kronemyer for *Pain Medicine News*, “One Pain Relief Skills Class Found Effective for Chronic Low Back Pain” available at <https://www.painmedicineneeds.com/Complementary-and-Alternative/Article/10-21/One-Pain-Relief-Skills-Class-Found-Effective-for-Chronic-Low-Back-Pain/>
- 9/3/21 Interviewed by Ginny Graves for *Prevention* magazine article on sex differences in pain and pain treatment
- 1/20/22 Interviewed by Leslie Goldman for *HealthCentral* feature on treating pain in women

Other Media (Videos, Websites, Blogs, Social Media, etc.) [OM]

Newsletter Articles

1. **Le TP**, Gan TJ. “Summary of Point-Counterpoint Debates at the 2009 ASA Annual Meeting.” Society for Ambulatory Anesthesia Newsletter, April 2010 issue.
2. **Doshi TL**, Nicol AL. “Supporting Women in Regional Anesthesia and Pain Medicine (WRAPM): Why You Should Join the Newest ASRA Special Interest Group.” American Society for Regional Anesthesia and Pain Medicine Newsletter, February 2018 issue.

Blog Posts

- 11/28/17 **Doshi TL**. “Supporting Women in Regional Anesthesia and Pain Medicine (WRAPM): Why You Should Join the Newest ASRA Special Interest Group.” ASRA Blog. <https://www.asra.com/news/180/supporting-women-in-regional-anesthesia>.
- 9/18/18 **Doshi TL**, Trousdale E, Ghosh P, Kenevan MR. “ASRA Celebrates Women in Medicine.” ASRA Blog. <https://www.asra.com/news/212/asra-celebrates-women-in-medicine>

FUNDING

EXTRAMURAL Funding

Research Extramural Funding – Current

- 9/1/21-8/31/24 A Sequenced Strategy for Improving Outcomes in Patients with Knee Osteoarthritis Pain
UH33AR077360 Research Supplement to Promote Diversity in Health-Related Research
NIH/NIAMS
\$466,689
PI: Doshi T (70% effort)
Parent Grant PIs: Cohen SP; Campbell CM; Castillo RC
- 8/1/21-5/31/26 Neural Mechanisms of Immersive Virtual Reality in Chronic Pain
R01AT011347

NIH/NCCIH
\$686,074
PI: Colloca L
Role: Co-investigator/Site PI (15% effort)

6/1/19-present A Double-Blind, Placebo Controlled, Crossover Trial of BHV-3000 (Rimegepant) for Treatment Refractory Trigeminal Neuralgia
Biohaven Pharmaceuticals
\$1.3m
PI: Doshi T (former), Lim M (former), Bettegowda C (current)
Role: Co-investigator (no salary support), initial PI (stepped down per terms of NIH Loan Repayment)

Educational Extramural Funding – Past
8/15/16-8/14/18 Postdoctoral Research Training in Anesthesiology and Critical Care Medicine
GM075774
NIH/NIGMS
\$382,714
PI: Gottschalk A
Role: Postdoctoral fellow

1/1/19-12/31/21 Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia
Mentored Research Training Grant, Foundation for Anesthesia Education and Research
\$250,000
PI: Doshi, T (75% effort)
Mentor: Raja, S

INTRAMURAL Funding

Research Intramural Funding – Current
1/1/21 Neurodiagnostic Biomarkers of Central Sensitization in Chronic Pain
Blaustein Pain Research Fund
\$25,000
PI: Doshi T

Research Intramural Funding – Past
7/1/19-12/31/20 Doris Duke Early Clinician Investigator Award
Doris Duke Charitable Foundation
\$40,000 (year 1), \$37,000 (year 2 renewal)
PI: Doshi T

7/1/19-6/30/20 Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia
Blaustein Pain Research Fund
\$13,000
PI: Doshi T

8/15/16-6/30/20 Cytokines, quantitative sensory testing, and radiologic findings in patients with trigeminal neuralgia
Pain Research Scholar Award, Neurosurgery Pain Research Institute
\$120,000
PI: Lim M
Role: Mentored Researcher

7/1/18-1/31/20 miRNA Profiles in Knee Osteoarthritis and Analgesic Response
Stimulating and Advancing ACCM Research (StAAR) Mentored Research Award,
Johns Hopkins Department of Anesthesia and Critical Care Medicine
\$30,000
PI: Doshi T
Mentors: Campbell CM, Ajit SK

CLINICAL ACTIVITIES

Medical, other state/government licensure

8/2015-present Maryland Board of Physicians (#D0076942)

Boards, other specialty certification

3/2016-present Board Certified, American Board of Anesthesiology

9/2016-present Pain Medicine Certification, American Board of Anesthesiology

EDUCATIONAL ACTIVITIES *(in chronological order, earliest first by start date under each subcategory)*

Teaching

Classroom instruction

- 6/2016, 6/2019 Small group leader for medical students, TIME: Pain Care Medicine course, introduction to pain research and clinical care, Johns Hopkins University School of Medicine, Baltimore, MD
- 8/2016-present Lecturer, Johns Hopkins University Division of Pain Medicine, fellow and resident lecture series, one lecture every 1-2 months, "Quantitative Sensory Testing", "Genetics of Pain", "Headaches for the Pain Physician", "Pain Medicine Board Review", "Cranial Neuralgias", "Occipital Neuralgia", "Nutritional Supplements in Chronic Pain", "The Stellate Ganglion Block", "Your Elevator Pitch", "Craniofacial Blocks", "Inclusivity in Pain Medicine", Baltimore, MD
- 5/2019 Lecturer, Johns Hopkins University Department of Physical Medicine & Rehabilitation, "Ultrasound-Guided Interventions for Craniofacial Pain," Baltimore, MD
- 8/2019 Lecturer, "Painful Disease States I: Pathophysiology," ACCM Resident College Day, Johns Hopkins University School of Medicine, Baltimore, MD
- 8/2019 Speaker and discussion moderator, Johns Hopkins University Department of Anesthesiology and Critical Care Medicine, "Case Conference: Diagnosis and Management of Complex Regional Pain Syndrome," Baltimore, MD
- 11/2019 Lecturer, "Opioids I," ACCM Resident College Day, Johns Hopkins University School of Medicine, Baltimore, MD
- 1/2020 Lecturer, Johns Hopkins University School of Medicine MD/PhD Program Herlong Rounds, "Case Presentation and Discussion," Baltimore, MD.
- 5/2020 Lecturer, "Headaches and Cranial Neuralgias," Department of Physical Medicine and Rehabilitation Residency, Johns Hopkins University School of Medicine, Baltimore, MD
- 5/2020 Lecturer, "Facial Pain," TIME: Pain Care Medicine course, introduction to pain research and clinical care, Johns Hopkins University School of Medicine, Baltimore, MD
- 6/2021 Lecturer, "Central Sensitization," TIME: Pain Care Medicine course, introduction to pain research and clinical care, Johns Hopkins University School of Medicine, Baltimore, MD

Clinical instruction

- 2016-present Attending, fellows/rotating residents and medical students; Outpatient Pain Treatment Center. Johns Hopkins Hospital
- 2016-present Attending, fellows; Inpatient Chronic Pain service. 8-10 weeks each year, Johns Hopkins Hospital

Workshops/Seminars

- 5/2019 Workshop leader, Department of Physical Medicine & Rehabilitation resident educational workshop, lecture and hands-on workshop on ultrasound-guided "Interventions for Craniofacial Pain", Johns Hopkins University School of Medicine, Baltimore, MD
- 11/2019 Workshop Instructor, "Ultrasound in Pain Medicine II: Common Pain Procedures", American Society of Regional Anesthesia and Pain Medicine Annual Pain Medicine Meeting, New Orleans, LA.
- 11/2019 Workshop Instructor, "Trigger Point Injections", American Society of Regional Anesthesia and Pain Medicine Annual Pain Medicine Meeting, New Orleans, LA.
- 2/2020 Workshop Instructor, "Advanced Ultrasound-Guided Pain Medicine Interventions: Lower Extremity," American Academy of Pain Medicine Annual Meeting, National Harbor, MD.

Educational Program Building / Leadership

2016-present Applicant interviewer, Johns Hopkins Division of Pain Medicine
Member, Clinical Competency Committee

2019-present Applicant interviewer, Johns Hopkins Department of Anesthesiology and Critical Care Medicine

Member, Clinical Competency Committee

RESEARCH ACTIVITIES (*in chronological order, earliest first by start date under each subcategory*)

Research Focus

Chronic pain; clinical trials; interventional pain procedures; biomarkers; quantitative sensory testing; precision medicine; pain phenotyping; craniofacial pain; diversity and inclusion

Research Program Building / Leadership

8/2019-12/2019 Faculty Co-Lead, 21st Annual ACCM Research Day

9/2019-12/2019 Team Leader in Johns Hopkins Technology Innovation Center (TIC) Center of Excellence Analytics in Medicine Program (CAMP) to develop a Precision Pain Medicine Center of Excellence

Advisory Committees, Review Groups/Study Sections

9/2017-2/2021 Member and Lead Author, Acute Neuropathic Pain Working Group, The ACTION-APS-AAPM Pain Taxonomy (AAAPT) Multidimensional Approach to Classifying Acute Pain Conditions

4/2020-present Section Lead, ASRA Infection Control Guidelines

10/2020-present ASRA Representative and section co-lead, Multisociety Practice Advisory on Safety of Steroid Injections

5/2021-present ASRA Representative and workgroup member, Multisociety SCS Trials Guidelines

ORGANIZATIONAL ACTIVITIES

Institutional administrative appointments

2019-present Co-Chair, Johns Hopkins Pain Committee

2020-present Member, Johns Hopkins Anesthesiology and Critical Care Medicine Clinical Competency Committee

Editorial Board appointments

2019-present Member, Editorial Board, *Practical Pain Management*

2019-present Member, Editorial Board, *Pain Medicine*

2021-present Associate Editor, *Regional Anesthesia and Pain Medicine*

2021-present Member, Editorial Board, *Interventional Pain Medicine*

Journal peer review activities

2016-present *Pain Medicine*

2017, 2018 Silver Star reviewer

2019, 2020 Gold Star reviewer

2018-present *Regional Anesthesia and Pain Medicine*

2019-present *Practical Pain Management*

2019-present *Anesthesia & Analgesia*

2019 Top Reviewer commendation

2019-present *Molecular Pain*

2019-present *Clinical Journal of Pain*

2020-present *Canadian Journal of Pain*

2021-present *PAIN*

2021-present *Annals of Headache Medicine*

2021-present *Pain Practice*

Professional Societies

2009-present Member, American Society of Anesthesiologists

2017-present Member, International Association for the Study of Pain

2018-present Member, Neuropathic Pain Special Interest Group (NeuPSIG)

2018-present Appointed Member, NeuPSIG Trainee Subcommittee

2017-present Member, International Anesthesia Research Society

2017-present Member, American Interventional Headache Society

2017-present American Society of Regional Anesthesia and Pain Medicine

2017-present Member

2017-present Chair and Founding Member, Women in Regional Anesthesia and Pain Medicine Special Interest Group

2018-2021 Newsletter Liaison, Headache Special Interest Group

2019-present	At-Large Member, Membership Committee
2019, 2020	ASRA Annual Pain Medicine Meeting Social Media Ambassador
2020-present	Section lead, ASRA Infection Control Guidelines
2021-present	ASRA representative and section co-lead, Multisociety Practice Advisory on Safety of Steroid Injections
2021-present	ASRA representative, Multisociety SCS Trials Guidelines Workgroup

Conference Organizer

National

2020-2021	Member, Scientific/Education Planning Committee, 21 st Annual Pain Medicine Meeting, American Society of Regional Anesthesia and Pain Medicine
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RECOGNITION

Awards, Honors

2003-2007	Echols Scholar, University of Virginia honors program
2003-2007	University Achievement Award, full-tuition scholarship
2007	Phi Beta Kappa
2007	Robert Bryan Undergraduate Teaching Award
2010	First Place: Medical Student, Duke Department of Anesthesiology Academic Evening
2013	First Place: Pediatrics: Midwest Anesthesia Residents' Conference
2016	Neurosurgery Pain Research Institute Pain Scholar Award
2018	Emerging Women's Leadership Program
2019	NIH Loan Repayment Program Award
2021	Expertscape Expert in Pain (top 1% of scholars writing about Pain over the past 10 years)

Invited Talks

JHMI/Regional

8/7/13	Speaker, Washington University Departments of Anesthesiology and General Surgery, "Interprofessional Communication I: Preoperative Issues," St. Louis, MO.
8/21/13	Speaker, Washington University Departments of Anesthesiology and General Surgery, "Interprofessional Communication II: Preoperative Issues," St. Louis, MO.
2/4/13	Speaker, Barnes-Jewish Hospital Perioperative Nurses' Week, "Anesthetic Agents: Overview," St. Louis, MO.
12/10/14	Speaker, Washington University Department of Anesthesiology Grand Rounds, "Morbidity and Mortality," St. Louis, MO.
3/4/15	Speaker, Washington University Department of Anesthesiology Grand Rounds, "Morbidity and Mortality," St. Louis, MO.
4/8/16	Speaker, JHU Blaustein Pain Grand Rounds, "Complementary Medicine for Chronic Pain: Acupuncture and Mind-Body Therapies," Baltimore, MD.
9/9/16	Invited panelist, JHU Blaustein Pain Grand Rounds, "Panel Discussion: Nerve Injury, Nerve Regeneration, and Neuropathic Pain," Baltimore, MD.
3/10/17	Speaker, JHU Blaustein Pain Grand Rounds, "Immune Therapies in Neuropathic Pain," Baltimore, MD.
4/9/17	Speaker, JHU Neurosurgery Pain Research Institute Scholars Progress Meeting, "Cytokines, Quantitative Sensory Testing, and Radiologic Findings in Patients with Trigeminal Neuralgia," Baltimore, MD.
5/24/17	Speaker, JHU Department of Anesthesiology and Critical Care Medicine Research Committee Meeting, "T32 Research Update," Baltimore, MD.
2/10/18	Speaker, Trigeminal Neuralgia and Facial Pain Support Group of Central Maryland, "Pain Management for Trigeminal Neuralgia and Facial Pain," Columbia, MD.
10/19/18	Speaker, JHU Blaustein Pain Grand Rounds, "Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia," Baltimore, MD.
12/20/18	Speaker, Neurosurgery Pain Research Institute Pain Research Scholars Symposium, "Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia," Baltimore, MD.
10/26/19	Speaker, Neurosurgery Pain Research Institute Pain Research Scholars Symposium, "Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia: Update," Baltimore, MD.
3/12/20	Speaker, Johns Hopkins University Division of Pain Medicine/Neuro, "The Elevator Pitch," Baltimore, MD.
5/18/20	Speaker, Neurosurgery Pain Research Institute Pain Research Scholars Symposium, "Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia: 2020 Update," Baltimore, MD (online).

- 2/11/21 Speaker, JHU ACCM Discovery Rounds, "Precision Pain Medicine: Prognostic Biomarkers in Chronic Pain Treatment," Baltimore, MD (online).
- 10/14/21 Speaker, JHU ACCM Grand Rounds, "Pain Biomarkers: First Steps Toward Precision Pain Medicine," Baltimore, MD (online).

National

- 10/22/17 Speaker, Hemophilia Federation of America, "Pain Management in Hemophilia," Washington, DC.
- 11/3/17 Speaker, The ACTION-APS-AAPM Pain Taxonomy (AAAPT) Multidimensional Approach to Classifying Acute Pain Conditions, Acute Neuropathic Pain Working Group, "Trigeminal Neuralgia," Washington, DC.
- 6/30/18 Speaker, Hemophilia Federation of America, "Pain Management in Hemophilia," Washington, DC.
- 3/22/19 Speaker, Drexel University Department of Pharmacology & Physiology, "Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia," Philadelphia, PA.
- 8/22/19 Speaker and Visiting Professor, University of Minnesota School of Dentistry, "Novel Biomarkers and Pain Phenotypes in Trigeminal Neuralgia," Minneapolis, MN.
- 11/16/19 Plenary Session Speaker, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, "Inclusivity: Why We Should Care About Gender, Racial, and Ethnic Equity in Our Specialty," New Orleans, LA.
- 2/28/20 Symposium Moderator and Presenter, American Academy of Pain Medicine Annual Meeting, "Placebo Interventions: Are They Even Possible?" National Harbor, MD.
- 2/28/20 Speaker, American Academy of Pain Medicine Annual Meeting, "Inclusivity: Why It Matters," National Harbor, MD.
- 9/24/20 Speaker, Arthritis Foundation, "Q&A: Practical Strategies for Arthritis Pain", Online/Virtual.
- 10/4/20 Speaker, American Society of Anesthesiology Annual Meeting, "FAER/eSAS: Navigating the Research Environment", Online/Virtual.
- 10/16/20 Speaker, Blaustein Pain Grand Rounds, "Diagnostic Challenges in Craniofacial Pain," Baltimore, MD (online).
- 11/21/20 Speaker, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, "Avoiding and Managing Burnout", Online/Virtual.
- 1/28/21 Speaker/Panelist, Society for Obstetric Anesthesiology and Perinatology Townhall Meeting, "Special Interest Groups", Online/Virtual.
- 3/18/21 Speaker, University of Arkansas Medical School Pain Grand Rounds, "Facial Pain", Online/Virtual.
- 4/21/21 Speaker, Rush University Department of Anesthesiology Grand Rounds, "Precision Pain Medicine: Prognostic and Predictive Biomarkers for Chronic Pain Treatment", Online/Virtual.
- 7/9/21 Speaker, Stanford University Pain Grand Rounds, "Placebo Interventions: Are They Even Possible?", Online/Virtual.
- 9/21/21 Guest Moderator, University of Miami Physical Medicine and Rehabilitation Journal Club, "Pain Management", Online/Virtual.
- 9/25/21 Speaker, Midwest Pain Society 45th Annual Meeting, "Adding Medical Foods into Pain Management," Online/Virtual.
- 10/9/21 Speaker, American Society of Anesthesiology Annual Meeting, "eSAS Rapid Fire Session: Pain Biomarkers", San Diego, CA.
- 11/19/21 Speaker, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, "Clinical and Research Applications of Biomarker Data", San Francisco, CA.
- 11/20/21 Speaker, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, "Resilience Against Discrimination and Inequality", San Francisco, CA.
- 12/16/21 Speaker, SKOAP Lunch 'n' Learn, "Serotonin Syndrome," Baltimore, MD (online/virtual).

International

- 8/9/17 Speaker, Aarhus University, "Cytokines, quantitative sensory testing, and radiologic findings in patients with trigeminal neuralgia," Aarhus, Denmark.
- 4/16/21 Speaker, session organizer, International Association for the Study of Pain (IASP) Pain Research Forum/Neuropathic Pain Special Interest Group (NeuPSIG) Webinar, "AAAPT Diagnostic Criteria for Acute Neuropathic Pain", Online/Virtual.
- 4/24/21 Speaker, Mumbai Pain School, Neuropathic Pain Webinar/Comprehensive Webinar Series, "Trigeminal Neuralgia/Trigeminal Neuropathy", Online/Virtual, Mumbai, India.
- 5/10/21 Panelist, SMi Pain Therapeutics Conference, "Seeking Funding for Pain Clinical Research Trials", Online/Virtual, London, UK.

5/10/21 Speaker, SMi Pain Therapeutics Conference, "Diversity Matters: The Importance of Sex and Gender in Pain Research", Online/Virtual, London, UK.

OTHER PROFESSIONAL ACCOMPLISHMENTS

Oral/Podium Presentations

- 6/18/10 **Le TP**, Gan TJ. "Incidence and Severity of Pain and Nausea Following Intraoperative Morphine Versus Hydromorphone." Duke Department of Anesthesiology Academic Evening, Durham, NC.
- 6/18/10 **Le TP**, Gan TJ. "Trends in Opioid Use at a Major Medical Center, 2002-2008." Duke Department of Anesthesiology Academic Evening, Durham, NC.
- 8/6/10 **Le TP**, Gan TJ. "Incidence and Severity of Pain and Nausea Following Intraoperative Morphine Versus Hydromorphone." Duke University School of Medicine AOA Day, Durham, NC.
- 10/20/10 **Le TP**, Gan TJ. "Incidence and Severity of Pain and Nausea Following Intraoperative Morphine Versus Hydromorphone." American Society of Anesthesiology Annual Meeting, San Diego, CA.
- 10/20/10 **Le TP**, Gan TJ. "Trends in Opioid Use at a Major Medical Center, 2002-2008." American Society of Anesthesiology Annual Meeting, San Diego, CA.
- 4/27/13 **Doshi TL**, Fehr JJ. "Paracorporeal Lung Assist Device as Bridge to Lung Transplant in an Infant with Pulmonary Hypertension." Midwest Anesthesia Residents' Conference, Kansas City, MO.
- 4/27/13 Chen GH, **Doshi TL**, Fehr JJ. "Anesthetic Considerations for MECP2 Duplication Syndrome." Midwest Anesthesia Residents' Conference, Kansas City, MO.
- 5/4/14 **Doshi TL**, Vannucci A. "An Unusual Case of Cerebral Oximetry Signal Interference." Midwest Anesthesia Residents' Conference, Chicago, IL.
- 5/29/15 **Doshi TL**, Cavallone LF, Gereau RW. "Efficacy of Fenobam on Heat/Capsaicin-Induced Hyperalgesia in Healthy Adult Volunteers." Washington University Department of Anesthesiology Academic Evening, St. Louis, MO.
- 5/29/15 **Doshi TL**, Cavallone LF, Gereau RW. "Differences Between Sensitizers and Non-Sensitizers in a Heat/Capsaicin Model of Cutaneous Hyperalgesia." Washington University Department of Anesthesiology Academic Evening, St. Louis, MO.
- 11/16/17 **Doshi TL**, Wu A, Hung AL, Lim M. "Microvascular decompression can provide pain relief for trigeminal neuralgia patients with atypical facial pain, but is less effective than for patients with classic trigeminal neuralgia." American Society of Regional Anesthesia and Pain Medicine 16th Annual Pain Medicine Meeting, Lake Buena Vista, FL.
- 2/2/18 Doshi AN, **Doshi TL**, Cronin I, Mojerie I, Campbell-Washburn A, Cross R, Kanter J, Khan S, Scheel J, Grant E, Olivieri LJ. "Native T1 measurements in pediatric heart transplant patients correlate with history of prior rejection episodes." Cardiovascular Magnetic Resonance 2018, Barcelona, Spain. [AN Doshi presented]
- 4/26/18 Megafu OS, **Doshi TL**. "Ultrasound-Guided Glossopharyngeal Nerve Block: A Valuable Diagnostic and Therapeutic Tool for the Management of Eagle's Syndrome." American Academy of Pain Medicine 2018 Annual Meeting, Vancouver, BC, Canada. [OS Megafu presented]
- 4/26/18 Chen Y, **Doshi TL**. "Alpha-lipoic Acid for the Treatment of Atypical Facial Pain: Case Report." American Academy of Pain Medicine 2018 Annual Meeting, Vancouver, BC, Canada. [Y Chen presented]
- 6/14/18 Henningfield JE, Raffa RB, Garcia-Romeu A, **Doshi TL**. "Kratom and Its Mitragynines in the Opioid Crisis: A Path to or Away from Opioids?" 2018 College on Problems of Drug Dependence 80th Annual Scientific Meeting, San Diego, CA. [JE Henningfield presented]
- 9/12/18 **Doshi TL**, Hung AL, Wu A, Lim M. "Cytokine Levels in Plasma and Cerebrospinal Fluid of Trigeminal Neuralgia Patients: A Preliminary Study." International Association for the Study of Pain 17th World Congress on Pain, Boston, MA.
- 8/29/19 **Doshi TL**, Bhisetti R, Campbell CM, Raja SN, Lim M. "Alterations in quantitative sensory testing in trigeminal neuralgia patients following microvascular decompression surgery." Foundation for Anesthesia Education and Research Annual Conference, Washington, DC.