

CURRICULUM VITAE  
The Johns Hopkins University School of Medicine  
University of California School of Medicine Riverside

(Typed Name) **Anita Gupta, DO, MPP, GMP, PharmD, FASA**

**DEMOGRAPHIC AND PERSONAL INFORMATION**

**Personal Data**

University of California School of Medicine  
SOM Medicine Building II  
900 University Avenue  
Riverside, CA 92521

Johns Hopkins University School of Medicine  
Anesthesiology and Critical Care Medicine  
Bloomberg 6320  
1800 Orleans Street  
Baltimore, MD 21287

Loma Linda School of Medicine  
Department of Anesthesiology and Pain Medicine  
11234 Anderson St.  
Loma Linda, CA 92354

**Appointments**

**University**

2025-Present	Professor, Loma Linda School of Medicine, Department of Anesthesiology and Pain, CA
2024-Present	Full Clinical Professor, University of California School of Medicine, CA
2019-Present	Clinical Professor, Rowan University School of Osteopathic Medicine, NJ
2020-Present	Adjunct Assistant Professor, Anesthesiology, Johns Hopkins School of Medicine, MD
2023-2025	Professor, California University of Sciences and Medicine, CA
2021-2021	Chief, Head, Medical Director, Pain, MD Anderson-Scripps Health System, CA
2012-2017	Vice-Chair, Drexel University College of Medicine, PA
2012-2017	Associate Professor, Drexel University College of Medicine, PA
2012-2017	Fellowship Director, Regional Anesthesiology, Drexel University College of Medicine, PA
2011-2017	Medical Director, Pain/Regional Anesthesiology, Drexel University College of Medicine, PA
2008-2011	Assistant Professor, University of Pennsylvania School of Medicine, Anesthesiology, PA

**Hospital**

2024-Present	Anesthesiologist, Pain, University of California-San Diego (UCSD) Physician Network, CA
2022-Present	Anesthesiologist, Pain, University of California-Los Angeles (UCLA), Los Angeles, CA
2021-Present	Anesthesiologist, Pain, Johns Hopkins Medicine, Washington DC
2020-Present	Anesthesiologist, Pain, Scripps Health, San Diego, CA

2023-2024	Anesthesiologist, Kaiser Permanente Group of Southern California, CA
2011-2020	Attending Physician, University of Pennsylvania Princeton Medicine, NJ
2011-2020	Attending Physician, Robert Wood Johnson Health System, Hamilton, NJ
2011-2020	Attending Physician, Virtua Health System, Voorhees, NJ
2007-2008	Attending Physician, Washington Hospital Center, Washington DC

## Government

2023-Present	Delegate, US Pharmacopeia, on behalf of American Society of Anesthesiologists, DC
2020-Present	Special Government Employee, US Food & Drug Administration, Silver Springs, MD
2019-Present	Advisor, National Academies of Sciences, Engineering and Medicine, Washington DC
2023-2023	Chief Surgeon, City of New York, NY
2020-2022	Scientific Advisor, Department of Defense, Congressionally Directed Medical Research, VA
2020-2022	Technical Advisor, National Quality Forum, Washington D.C.
2015-2018	Special Government Employee, US Food & Drug Administration, Silver Springs, MD

## Education and Training

### Undergraduate

1994-1997	Bachelor of Science, (BS) Pharmacy, Rutgers University, New Brunswick, NJ
1992-1994	The College of New Jersey, Pre-Medical Education, Ewing, NJ

### Doctoral/Graduate

2020-2020	Harvard Business School, General Management Program (GMP), Boston, MA
2017-2018	Princeton University, Master of Public Policy (MPP), Health, Health Policy, NJ
1999-2003	UMDNJ – Rowan, Doctor of Osteopathic Medicine (DO), Stratford, NJ
1994-1999	Rutgers University, BS, Doctor of Pharmacy (BS, PharmD), New Brunswick, NJ

### Professional Education

2017-2018	Finance & Public Policy, Graduate Associate, Princeton University, NJ
2017-2018	Gender Studies, Liechtenstein Institute Fellow, Princeton University, NJ
2014-2016	Founding Fellow, Institute of Coaching, Harvard Medical School McLean Hospital, MA
2015-2015	Massachusetts Institute of Technology, Biotechnology & Pharmaceuticals, MA
2014-2014	AAMC, Leadership Development, Association of American Medical Colleges
2010-2011	Wharton Total Leadership Program, University of Pennsylvania, PA
2010-2011	Pain Advocacy and Communications Fellowship, Mayday Foundation, Washington DC

### Medical Education

2007-2008	Interventional Pain Fellowship, Johns Hopkins Baltimore, MD
2006-2007	Chief Resident, Anesthesiology, Georgetown University, Washington, D.C.
2006-2007	Clinical Scientist Training, National Institute of Health, Bethesda, MD
2004-2007	Anesthesiology, Residency, Georgetown University, Washington, D.C.
2003-2004	Internship, Transitional Internship, Crozer Health System, Philadelphia, PA

### Life Sciences/Biopharmaceutical Education

1999-1999	New Product Development, Janssen Pharmaceuticals, Titusville, NJ
1998-1998	Managed Care Division, Merck-Medco, Montvale, NJ
1997-1997	Research and Development, Bristol Myers Squibb, New Brunswick, NJ

## RESEARCH

Original Research [OR] (Total citations= 2537; h-index= 22; i10-index 33 via [Google scholar](#), [Orc ID](#), [Research Gate](#), [Scopus](#))

1. Gupta, A., Limerick, G., Hsu, J., Javaheri, J., Allahverdian, A., & Christo, P. J. (2024). Emerging innovation in pain medicines. *Pain Management*, 14(5–6), 315–321. <https://doi.org/10.1080/17581869.2024.2385285>
2. [National Academies of Sciences, Engineering, Medicine Working Group]. Cuff, P, **Gupta A**, et al. "Barriers and facilitators to initiating and sustaining interprofessional pain education." *Journal of Interprofessional Education & Practice*, vol. 29, 2022, p. 100581. DOI:[10.1016/j.xjep.2022.100581](https://doi.org/10.1016/j.xjep.2022.100581)
3. Kulchar, RJ, **Gupta A** et al. "Telemedicine, safe medication stewardship, and COVID-19: Digital transformation during a global pandemic." [*Journal of Interprofessional Education & Practice*, vol. 29, 2022, p. 100524. DOI:[10.1016/j.xjep.2022.100524](https://doi.org/10.1016/j.xjep.2022.100524)
4. [National Academies of Sciences, Engineering, Medicine Working Group]. **Gupta A**, et al. "Listening to patients: Real world insights for advancing interprofessional collaborations in pain care." [National Academies of Sciences, Engineering, Medicine Working Group]. *Journal of Interprofessional Education and Practice*, vol. 29, 2022, p. 100574. DOI:[10.1016/j.xjep.2022.100574](https://doi.org/10.1016/j.xjep.2022.100574)
5. Cohen SP, Doshi TL, Dawson TC, \***Gupta A**, Durbhakula S, Constantinescu OC, Jacobs MB, Verdun JV, Salisu- Orhurhu M, Griffith SR, Kurihara C. [SI/QI]. Prognostic value of hypersensitivity reactions on epidural steroid injection outcomes: a phenotypic signature? A prospective cohort studies. *Reg Anesth Pain Med*. 2019 May;44(5):586-v594. doi: 10.1136/rapm-2018-100276. Epub 2019 Apr 8.
6. \***Gupta A**, Scott K, Dukewich M. [SI/QI]. Innovative Technology Using Virtual Reality in the Treatment of Pain: Does It Reduce Pain via Distraction, or Is There More to It? *Pain Med*. 2018 Jan 1;19(1):151-159. doi: 10.1093/pm/pnx109. Review. PMID: 29025113
7. \***Gupta A**, Coyne KS, Datto C, Venuti C. [SI/QI]. The Burden of Opioid-Induced Constipation in Younger Patients with Chronic Noncancer Pain. *Pain Med*. 2018 Dec 1;19(12):2459-2468. doi: 10.1093/pm/pny002. PMID: 29420795
8. \***Gupta A**, Huettner DP, Dukewich M. Comparative Effectiveness Review of Cooled Versus Pulsed Radiofrequency Ablation for the Treatment of Knee Osteoarthritis: A Systematic Review. [SI/QI]. *Pain Physician*. 2017 Mar;20(3):155-171. Review. PMID: 28339430
9. \*Chen C, Bujanover S, **Gupta A**. Effect of dosing interval on pharmacokinetics of fentanyl pectin nasal spray from a crossover study. *J Opioid Manag*. 2015 Mar-Apr;11(2):139-46. PMID: 25901479
10. \***Gupta A**, Lee LK, Mojica JJ, Nairizi A, George SJ. [SI/QI]. Patient perception of pain care in the United States: a 5-year comparative analysis of hospital consumer assessment of health care providers and systems. *Pain Physician*. 2014 Sep-Oct;17(5):369-77. PMID: 25247895

11. **\*Gupta A**, Li S. Safety and efficacy of once daily gastroretentive gabapentin in patients with postherpetic neuralgia aged 75 years and over. *Drugs Aging*. 2013 Dec;30(12):999-1008. PMID: 24163280
12. **\*Gupta A**, Patton C, Diskina D, Cheatle M. [SI/QI]. Retrospective clinical evaluation of physician opioid prescribing practices in patients with aberrant behaviors. *Pain Physician*. 2011 Jul-Aug;14(4):383. PMID:21785482
13. **\*Gupta A**, Daigle S, Mojica J, Hurley RW. [SI/QI]. Patient perception of pain care in hospitals in the United States. *J Pain Res*. 2009 Nov 13;2:157-64. PMID:21197302

#### Original Research Medical Presentations

1. Open Innovation Model to Transform Pain Care Delivery for the Next Generation. Gupta A, Kim J, Srinivas J, Sung J, Reyes M, . American Society of Anesthesiologists, Philadelphia, PA. October 2024. <https://bit.ly/m/Open-Innovation-Lab>
2. Updated Guidelines on Managing Pain and Anxiety with Intrauterine Device Insertion: A Systematic Review. Sonali Joshi, Carla Demerdjian, Claire Brammer, Anita Gupta. California Society of Anesthesiologists. Anaheim, CA. April 2024. <https://bit.ly/m/Open-Innovation-Lab>
3. Responsible Use of Social Platforms in Healthcare: Safeguarding Patients while Engaging Online. Birpartap Thind, Carla Demerdjian, Karina Smolyar, Christina Barsoum, Amy Ro, Anita Gupta. California Society of Anesthesiologists. Anaheim, CA. April 2024. <https://bit.ly/m/Open-Innovation-Lab>
4. Declining HCAHPS survey response rates and stagnated pain management scores by hospital type and ownership in 2013-2022. Ty Thompson, Jason Zimmerman, Brian Kavin, Anita Gupta. California Society of Anesthesiologists. Anaheim, CA. April 2024. <https://bit.ly/m/Open-Innovation-Lab>
5. Overdose-related US Maternal Mortality Rates in Southern California Jasper Lee, Christina Barsoum, Carla Demerdjian, Anita Gupta. California Society of Anesthesiologists. Anaheim, CA. April 2024. <https://bit.ly/m/Open-Innovation-Lab>
6. Effectiveness of Educational Intervention on Medical Student Awareness of Mixed-Drug Overdoses. Sharanya Akula MBS, Ty Thompson, Artin Allahverdian, Sarah Chen MAS, Peichung Chou, Anita Gupta. California Society of Anesthesiologists. Anaheim, CA. April 2024. <https://bit.ly/m/Open-Innovation-Lab>
7. Shaping Residency Success with Technology Training. Vinh Nguyen, Andres Guadron, Theodore Tran, Anita Gupta. California Society of Anesthesiologists. Anaheim, CA. April 2024. <https://bit.ly/m/Open-Innovation-Lab>

#### Clinical Trials

1. Dabigatran in patients with myocardial injury after non-cardiac surgery (MANAGE): an international, randomized, placebo-controlled trial. Devereaux PJ, Duceppe E, Guyatt G,

- Tandon V, Rodseth R, Biccard BM, Xavier D, Szczeklik W, Meyhoff CS, Vincent J, Franzosi MG, Srinathan SK, Erb J, Magloire P, Neary J, Rao M, Rahate PV, Chaudhry NK, Mayosi B, de Nadal M, Iglesias PP, Berwanger O, Villar JC, Botto F, Eikelboom JW, Sessler DI, Kearon C, Pettit S, Sharma M, Connolly SJ, Bangdiwala SI, Rao-Melacini P, Hoefft A, Yusuf S; MANAGE Investigators (\***Gupta A.**) Lancet. 2018 Jun 9;391(10137):2325-2334. doi: 10.1016/S0140-6736(18)30832-8. Erratum in: Lancet. 2018 Jul 7;392(10141):30. PMID:2990087
2. Davis T, Loudermilk E, DePalma M, Hunter C, Lindley D, Patel N, Choi D, Soloman M, \***Gupta A**, Desai M, Buvanendran A, Kapural L. Prospective, Multicenter, Randomized, Crossover Clinical Trial Comparing the Safety and Effectiveness of Cooled Radiofrequency Ablation With Corticosteroid Injection in the Management of Knee Pain From Osteoarthritis. Reg Anesth Pain Med. 2018 Jan;43(1):84-91. doi: 10.1097/AAP.0000000000000690. PMID: 29095245
  3. Cohen SP, **Gupta A**, Strassels SA, Christo PJ, Erdek MA, Griffith SR, Kurihara C, Buckenmaier CC 3rd, Cornblath D, Vu TN. Effect of MRI on treatment results or decision making in patients with lumbosacral radiculopathy referred for epidural steroid injections: a multicenter, randomized controlled trial. Arch Intern Med. 2012 Jan 23;172(2):134-42. Epub 2011 Dec 12. PMID:22157067
  4. \*Cohen SP, Peterlin BL, Fulton L, Neely ET, Kurihara C, **Gupta A**, Mali J, Fu DC, Jacobs MB, Plunkett AR, Verdun AJ, Stojanovic MP, Hanling S, Constantinescu O, White RL, McLean BC, Pasquina PF, Zhao Z. Randomized, double-blind, comparative-effectiveness study comparing pulsed radiofrequency to steroid injections for occipital neuralgia or migraine with occipital nerve tenderness. Pain. 2015;156(12):2585-2594. PMID: 26447705
  5. Davis T, Loudermilk E, DePalma M, Hunter C, Lindley DA, Patel N, Choi D, Soloman M, \***Gupta A**, Desai M, Cook E, Kapural L. [SI/QI]. Twelve-month analgesia and rescue, by cooled radiofrequency ablation treatment of osteoarthritic knee pain: results from a prospective, multicenter, randomized, cross-over trial. Reg Anesth Pain Med. 2019 Feb 16. pii: rapm-2018-100051. doi: 10.1136/rapm-2018-100051
  6. Cohen SP, Mao J, Vu TN, Strassels SA, **Gupta A**, Erdek MA, Christo PJ, Kurihara C, Griffith SR, Buckenmaier CC 3rd, Chen L. Does pain score in response to a standardized subcutaneous local anesthetic injection predict epidural steroid injection outcomes in patients with lumbosacral radiculopathy? A prospective correlational study. Pain Med. 2013 Mar;14(3):327-35. doi: 10.1111/pme.12027. Epub 2013 Jan 7. PMID: 23294538
  7. \***Gupta A**, Abubaker H, Demas E, Ahrendtsen L. A Randomized Trial Comparing the Safety and Efficacy of Intravenous Ibuprofen versus Ibuprofen and Acetaminophen in Knee or Hip Arthroplasty. [SI/QI]. Pain Physician. 2016 Jul;19(6):349-56. PMID: 27454264

1. [Milken Institute Working Group]. Advancing Innovative Treatment for Mental Health Innovation. April 2024. <https://milkeninstitute.org/report/mental-health-care-innovative-treatments>
2. [National Academies of Sciences, Engineering, Medicine Working Group]. Developing a Multidisciplinary and Multispecialty Workforce for Patients with Cancer, from Diagnosis to Survivorship. July 2023. [National Academies of Sciences, Engineering, Medicine Working Group]. <https://www.nationalacademies.org/our-work/developing-a-multidisciplinary-and-multispecialty-workforce-for-patients-with-cancer-from-diagnosis-to-survivorship-a-workshop>
3. [Gates Foundation and National Institutes of Health. Innovation Equity Forum] Women's Health Innovation Opportunity Map 2023. October 2023. [https://orwh.od.nih.gov/sites/orwh/files/docs/womens-health-rnd-opportunity-map\\_2023\\_508.pdf](https://orwh.od.nih.gov/sites/orwh/files/docs/womens-health-rnd-opportunity-map_2023_508.pdf)
4. [American Society of Anesthesiologists Working Group] **Gupta A**, et al. "What You Should Know About the 2022 CDC Opioid Prescribing Guideline." ASA Monitor, vol. 87, no. 5, 2023, pp. 29-30.
5. [American Society of Anesthesiologists Working Group]. **Gupta A**, Rebello, E, et al. "ASA Champions Safety and Workflows with USP< 797> Policy Victory." ASA Monitor, vol. 87, no. 2, 2023, pp. 28-29.
6. [National Academies of Sciences, Engineering, Medicine Working Group]. Reimagining Patient-Centered Care During a Pandemic in a Digital World: A Focus on Building Trust for Healing. NAM perspectives, vol. 2022, no. 6, 2022.
7. [World Economic Forum Member Expert]. Biotechnology, Pandemics and Emerging Threats. <https://www.weforum.org/people/anita-gupta/>
8. [National Academies of Sciences, Engineering, Medicine Working Group]. Compassionate, Patient-Centered Care in the Digital Age. National Academies of Medicine, 2019.
9. [National Academies of Sciences, Engineering, Medicine Working Group]. Proceedings of the Global Forum Innovation in Interdisciplinary Health Professional Education. 2022.
10. [National Quality Forum Technical Expert Working Group]. Report to United States Congress and the Secretary of the Department of Health and Human Services. 2022.

#### [Review Articles \[RA\]](#)

1. **Gupta A**. The Measurement and Treatment of Pain Needs to be Reassessed. Evaluation, vol. 14, 2020, p. 34.

2. \***Gupta A**, Bah M. NSAIDs in the Treatment of Postoperative Pain. [SI/QI]. Curr Pain Headache Rep. 2016 Nov;20(11):62. Review. PMID: 27841015
3. \***Gupta A**. [SI/QI].The importance of good communication in treating patients' pain. JAMA Journal of Ethics. 2015 Mar 1;17(3):265-7. PMID: 25813595
4. **Gupta A**, Rosenquist R. Opioid Analgesics in the Treatment of Chronic Pain. UpToDate. 2016.
5. \*Christiansen S, **Gupta A**. [SI/QI].Can mobile technology improve treatment of chronic pain? Pain Med. 2014 Aug;15(8):1434-5. doi: 10.1111/pme.12479. Epub 2014 Jul 8. PMID: 2504076
6. \***Gupta A**, Weber N, Duwell M. [SI/QI].Implementing a public health approach to the management of chronic pain in the USA. Pain Manag. 2013 Jul;3(4):315-9. PMID: 24654817
7. \*Bicket MC, **Gupta A**, Brown C. [SI/QI].Epidural injections for spinal pain: a systematic review and meta-analysis evaluating the "control" injections in randomized controlled trials. 4th, Cohen SP. Anesthesiology. 2013 Oct;119(4):907-31. PMID: 24195874
8. \*Ramasubbu C, **Gupta A**. [SI/QI].Pharmacological treatment of opioid-induced hyperalgesia: a review of the evidence. J Pain Palliat Care Pharmacother. 2011;25(3):219-30. Epub 2011 Aug 11. Review. PMID: 21834699
9. \***Gupta A**, Oshinsky C, Hewitt E. Biomarkers and Immunomodulation as a treatment option for chronic pain conditions. Pain Management. January 2011. Vo1 1:1.
10. \***Gupta A**, Ashburn M, Ballantyne J. [SI/QI].Quality assurance and assessment in pain management. Anesthesiol Clin. 2011 Mar;29(1):123-33. Epub 2010 Dec 16. PMID:21295757
11. \***Gupta A**, Mehdi A, Duwell M, Sinha A. [SI/QI].Evidence-based review of the Pharmacoeconomics related to the management of chronic nonmalignant pain. J Pain Palliat Care Pharmacother. 2010 Jun;24(2):152-6. PMID:20504139
12. \***Gupta A**. [SI/QI].Internet resources on managing chronic nonmalignant pain with opioids: the risks of addiction. J Pain Palliat Care Pharmacother. 2010 Mar;24(1):71-5. PMID:20345206
13. **Gupta A**, Christo PJ. Opinion in Opioid Abuse and Addiction. Journal of Clinical Nurse Practitioners. February 2009.



14. **\*Gupta A**, Giordano J. Pain care in Severely Neural Compromised Patients (SNCPs). Practical Pain Management. November 2009.
15. **\*Gupta A**, Giordano J. On the nature, assessment, and treatment of fetal pain: neurobiological bases, pragmatic issues, and ethical concerns. Pain Physician. 2007 Jul;10(4):525-32. Review. PMID:17660850
16. **\*Gupta A**. Targeted Novel Pharmacotherapy to Improve Outcomes in Opioid-Induced Constipation. The Journal of Family Practice. J Fam Pract. 2015 Nov;64 (11 Suppl 2). PMID: 26697546
17. **\*Gupta A**. Improving the Recognition and Diagnosis of Opioid-Induced Constipation in Clinical Practice. J Fam Pract. 2015 Oct;64(10 Suppl 1). PMID: 26561554
18. **\*Chen C, Gupta A**. Clinical and pharmacokinetic considerations of novel formulations of fentanyl for breakthrough cancer pain. Pain Manag. 2014;4(5):339-50. PMID: 25350074
19. **\*Cohen SP, Liao W, Gupta A, Plunkett A**. [SI/QI]. Ketamine in pain management. Adv Psychosom Med. 2011;30:139-61. Epub 2011 Apr 19. PMID:21508630
20. **\*Thaler A, Gupta A, Cohen SP**. [SI/QI]. Cannabinoids for pain management. Adv Psychosom Med. 2011;30:125-38. Epub 2011 Apr 19. PMID:21508629

#### Case Reports [CR]

1. **Gupta A**, Duckles B, Giordano J. [SI/QI]. Use of sublingual methadone for treating pain of chemotherapy- induced oral mucositis. J Opioid Manag. 2010 Jan-Feb;6(1):67-9. PMID:20297617
2. **\*Gupta A**, Zheng L, Ramanujam V, Gallagher J. Novel Use of Pharmacogenetic Testing in the Identification of CYP2C9 Polymorphisms Related to NSAID-Induced Gastropathy. Pain Med. 2015 May;16(5):866-9. PMID: 25585969
3. Dukewich M, Danesh A, Onyima C, **\*Gupta A**. [SI/QI]. Intractable Acute Pain Related to Fluoroquinolone- Induced Peripheral Neuropathy. J Pain Palliat Care Pharmacother. 2017 Jun;31(2):144-147. doi: 10.1080/15360288.2017.1301619. Epub 2017 Mar 30. PMID: 28358229
4. **\*Gupta A**, First L, Swain CA. [Successful Improvement of Pain Symptomatology in a Suspected Case of Cramp- Fasciculation Syndrome via Interventional Pain Treatment](#). [SI/QI]. J Pain Palliat Care Pharmacother. 2018 Mar;32(1):5-9. doi: 10.1080/15360288.2018.1463343. Epub 2018 May 18. PMID: 29775120
5. **\*Gupta A**, Portonova B, Dadachanji C. Successful treatment of post thrombotic syndrome with sequential lumbar sympathetic block. Pain Physician. 2015 Jan-Feb;18(1):E65-9. PMID: 25675072



6. **Gupta A**, Martindale T, Christo PJ. Intrathecal catheter granuloma associated with continuous sufentanil infusion. *Pain Med.* 2010 Jun;11(6):847-52. Epub 2010 Apr 29. PMID:20456073
7. \*Forsythe A, **Gupta A**, Cohen SP. Retained intrathecal catheter fragment after spinal drain insertion. *Reg Anesth Pain Med.* 2009 Jul-Aug;34(4):375-8. Review. PMID:19585702
8. \***Gupta A**, Kulkarni A, Ramanujam V, Zheng L, Treacy E. [SI/QI]. Improvement in chronic low back pain in an obese patient with topiramate use. *J Pain Palliat Care Pharmacother.* 2015 Jun;29(2):140-3. PMID: 26095484

#### Book Chapters, Monographs [BC]

1. **Gupta A**, and B Earls. Neuro-ablation Techniques for Pain Management. *Anesthesiology In-Training Exam Review: Regional Anesthesia and Chronic Pain Management*, 2022.
2. Bhatia G, **Gupta A**. Cervical Inter-Laminar Epidural Injections. In: *Interventional Pain Medicine*. Oxford University Press. New York, NY.
3. Popescu A, **Gupta A**. Lumbar Transforaminal Epidural Injections. In: *Oxford University Press*. New York, NY.
4. Ramasubbu C, **Gupta A**. Lumbar Radiofrequency Ablation. In: *Oxford University Press*. New York, NY.
5. **Gupta A**, Cohen SP. Sacroiliac joint dysfunction: Efficacy and Safety of Lateral Sensory Branch Neurotomy An evidence and knowledge-based review of the efficacy and safety of sacroiliac joint neurotomy including a review of radiofrequency ablation, cooled radiofrequency ablation technologies. DePalma (Editor). *Interventional Pain Medicine*.
6. Skeletal Muscle Relaxants. Ramasubbu C, **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors.
7. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
8. Acetaminophen. Ramasubbu C and **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors.
9. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
10. Anticholinesterases. Tang D. and **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors.
11. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
12. Anticholinergics. **Gupta A**, Mehdi A. In: **Gupta A** and Singh-Radcliff, Nina. Editors. *Pharmacology in Anesthesia Practice*. Oxford University Press. New York, NY.

13. Beta Blockers. **Gupta A**, and Mehdi A. In: **Gupta A** and Singh-Radcliff, Nina. Editors. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
14. Steroids. Witkin L, **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
15. Antihistamines. Patel M, and **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
16. Opioid Antagonists and Narcotic Reversal. Bhatia G, and **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
17. Bronchodilators. **Gupta A**, and Mehdi A. In: **Gupta A** and Singh-Radcliff, Nina. Editors. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.
18. Medications. Patel M, **Gupta A**. In: **Gupta A** and Singh-Radcliff, Nina. Editors.
19. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY.

#### Books, Textbooks [BK]

1. **Gupta A**. Editor. Interventional Pain Medicine. Oxford University Press. New York, NY. 2012.
2. **Gupta A**. Editor. Pharmacology in Anesthesia Practice. Oxford University Press. New York, NY. 2012.
3. **Gupta A**. Editor. 50 Studies Every Anesthesiologist Should Know. Oxford University Press. New York, NY. 2018.
4. **Gupta A**. Consulting Editor. In: Singh-Radcliff, Nina. Five Minute Clinical Consult Anesthesiology. Lippincott. Philadelphia. PA.
5. **Gupta A**. Rare Theory of Success. Princeton University. Princeton, NJ. 2018.

#### Other Publications

#### Media Releases or Interviews [MR]

1. Understanding COVID-19 Fatigue: Causes, Symptoms, and Treatment, Dec 12, 2023, <https://www.everydayhealth.com/coronavirus/how-to-beat-covid-19-fatigue-and-get-your-energy-back/>
2. Pain Relief Tips, Sept 18, 2023, Business Insider, <https://markets.businessinsider.com/news/stocks/what-ails-you-natural-pain-relief-tips-for-3-common-aches-1032638331>

3. Renowned Physician-Pharmacist Dr. Anita Gupta joins Erez Capital, Bringing Healthcare Innovation Expertise on Board., Jul 26, 2023
4. Norwood News, Dr. Anita Gupta Appointed as New Chief Surgeon of DOC's Health Management Division, Apr 20, 2023
5. Healio, Program boosts PCPs' confidence in prescribing OUD treatment, Mar 28, 2023
6. Gupta A, et al. HBS Healthcare: Future of Health: Leading Healthcare Transformation Focused on Environment, Sustainability, and Governance. Harvard Business School Healthcare Alumni Association, 2022.
7. Gupta A. "Principal Post: Advancing Open Innovation." Principal Post, 2022, [www.principalpost.com/in-motion/dr-anita-gupta](http://www.principalpost.com/in-motion/dr-anita-gupta).
8. Gupta A. "Predictions for the Future of the Healthcare Industry: Digital Health, ESG, Sustainability." Cheddar News, 2022.
9. Gupta A, et al. "Healthy Women: Telemedicine and Pain: What You Need to Know." Healthy Women, 2022.
10. Gupta A, and D Blum. "New York Times, I Had Breakthrough Covid. Can I Start Living Like It's 2019?" New York Times, 2022. <https://www.nytimes.com/2022/01/19/well/live/breakthrough-covid-immunity.html>
11. Gupta A. "Future of Health: Five Trends In Digital Health Transformation." Forbes, 2022.
12. Gupta A. "Future of Health: Three Healthcare Trends for 2022." Forbes, 2022.
13. Gupta A. "Future of Health: Transforming Telehealth Access In The Post-Pandemic Era." Forbes, 2022.
14. Gupta A, and LL Janeczko. "Rare and Preventable: Painful Post-vax Shoulder Problems." Medscape, 2022.
15. Healio, CDC updates clinical guidance on prescribing opioids for pain, Nov 3, 2022
16. Can You Work Out If You Have COVID? Here's What Experts Recommend, May 17, 2022
17. Healio, Acupuncture use is increasing, but many insurers do not cover it, Jan 18, 2022
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**Other Media [OM] (Videos, Websites, Blogs, Social Media, etc.)**

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- 2020- **Gupta A. Healio Peer Member:** <https://www.healio.com/authors/angupta>
- 2020- **Gupta A. Forbes Business Council Member;** Member and Writer <https://www.forbes.com/sites/forbesbusinesscouncil/2021/06/18/transforming-telehealth-access-in-the-post-pandemic-era/>
- 2015- **Gupta A. Social media:** [www.twitter.com/docanitagupta](http://www.twitter.com/docanitagupta) Creator, Manager
- 2015- **Gupta A. Social media:** [www.youtube.com/docanitagupta](http://www.youtube.com/docanitagupta) Creator, Manager
- 2015- **Gupta A. Website:** [www.anitagupta.com](http://www.anitagupta.com) Creator, Manager
- 2015- **Gupta A. Social media:** [www.linkedin.com/in/doctoranitagupta](http://www.linkedin.com/in/doctoranitagupta) Creator, Manager

## CLINICAL ACTIVITIES

### Clinical Focus

As a seasoned pain physician with a strong background in pharmacology, I specialize in providing comprehensive care for patients suffering from acute and chronic pain conditions. My clinical practice is rooted in delivering personalized treatment plans tailored to address the unique needs of everyone, with a particular emphasis on optimizing pain management strategies. Drawing from my expertise in pharmacology, I bring a deep understanding of medication mechanisms and interactions to my approach in pain management. This allows me to leverage a wide range of pharmacological interventions effectively, ensuring the best possible outcomes for my patients. With a foundation in interventional pain management and anesthesiology, I employ a multidisciplinary approach to pain management, integrating my knowledge of pharmacology with insights gained from critical care and perioperative settings. This comprehensive perspective enables me to develop tailored interventions that address not only pain relief but also optimize sedation and facilitate rehabilitation. Furthermore, my commitment to advancing pain medicine is reflected in my active involvement in research and education initiatives. Through my leadership role in clinical research programs and collaborative efforts with fellow healthcare professionals, I strive to enhance our understanding of pain mechanisms and develop innovative pharmacological approaches to pain management. By blending evidence-based practices with compassionate care, I am dedicated to helping individuals regain control over their pain and improve their quality of life. With a strong foundation in pharmacology, I am well-equipped to make a meaningful difference in the lives of my patients and contribute to the advancement of pain management practices. As a renowned physician, pharmacist, and healthcare leader, I am acclaimed for my visionary, patient-centered approach to innovation. My transformational leadership focused on human-centricity has garnered global recognition, including being named a World Economic Forum Expert Member. As Chief Surgeon in New York City, I have spearheaded initiatives to improve healthcare delivery and outcomes. My expertise has been sought by prestigious organizations, and I have served as an advisor on regulatory affairs and public health matters. My pioneering work on the opioid epidemic and groundbreaking research on revamping pain assessment in hospitals have earned me numerous accolades. I am an accomplished author and sought-after voice on complex health crises, and my leadership in women's health and pain management solidifies my position as a preeminent force driving positive change in healthcare.

### Certification

#### Boards, other specialty certification

- 2012-Present     Diplomate, Board Certification, Pain Medicine  
                         American Board of Anesthesiology (ABA) #47093
- 2011-Present     Diplomate, Board Certification, Anesthesiology  
                         American Board of Anesthesiology (ABA) #47093

#### Medical, other state/government licensure

- 2023-Present     New York Board of Medicine, Active
- 2019-Present     California Osteopathic Board of Medicine, Active
- 2011-Present     New Jersey Board of Medicine, Active

2008-Present District of Columbia Board of Medicine, Active  
1999-Present New Jersey Board of Pharmacy, Active  
2008-Present Pennsylvania Board of Medicine, Active  
2007-2008 Maryland Board of Medicine

#### Johns Hopkins Clinical (Service) Responsibilities

2021-Present Attending Physician, Johns Hopkins Medicine Sibley Hospital, DC

#### Clinical Productivity

**Johns Hopkins School of Medicine, Volunteer Faculty:** As volunteer faculty, I volunteer effort across the Johns Hopkins health care system with residents, fellows, medical students, and nurses. My volunteer responsibilities also include provide consultation, mentorship, education, and for the ACCM and Johns Hopkins community at large.

**Clinical Service in Pain Management:** In my role as a pain physician anesthesiologist, I work as a physician in the provision of pain management in the community setting on a volunteer basis.

#### National Clinical (Service) Responsibilities

**Multi Institutional Academic and Clinical Service:** As a national leader in pain management and anesthesiology, I have had the privilege of working as an active practicing physician, providing pain management and anesthesiology services in various clinical settings. Additionally, I have taught at multiple prestigious institutions on a volunteer and as needed basis. This broad depth of experience has allowed me to share my expertise with a wide range of students, colleagues, and patients while also staying up to date with the latest developments in my field.

#### EDUCATIONAL ACTIVITIES

With a primary educational focus on pain management, particularly in pharmacological therapies, innovation, and health policy, I am deeply committed to advancing the field of pain medicine. My passion extends to exploring innovative options for addressing emerging challenges faced by pain patients, driven by a dedication to improving their quality of life. In addition to my expertise in pain management, my educational pursuits encompass clinical research design, biostatistics, and ethics in human subject's research. This comprehensive knowledge equips me with the necessary skills to conduct rigorous studies aimed at advancing our understanding of pain mechanisms and evaluating the efficacy of novel interventions. Through my educational journey, I am continuously seeking to integrate cutting-edge advancements in pain management with insights gained from health policy and innovation. By staying at the forefront of developments in these areas, I aim to contribute to the formulation of evidence-based policies and the development of innovative solutions to improve pain care delivery. Overall, my educational focus underscores my commitment to addressing the multifaceted challenges of pain management through a holistic approach that encompasses pharmacological therapies, innovation, and health policy. By leveraging my expertise in these areas, I am dedicated to driving positive change in pain care and enhancing outcomes for patients experiencing pain.

#### Teaching

##### Educational Program Building / Leadership

2024- **Pharmacology Professor, University of California Riverside, School of Medicine**  
Lecturer on pharmacology and while discussing acute respiratory distress for medical students.

2024- **Girls Invest and Financial Literacy, California Council of Economic of Education**  
Advancing education on financial literacy to improve public health

- 2024- **Anesthesiology Faculty Advisor, University of California Riverside, School of Medicine**  
Advisor to medical students and next generation leaders focused on the specialty and shaping future leaders in the field.
- 2024- **Open Innovation Hub, University of California Riverside, School of Medicine**  
Driving transformative education as a faculty advisor while spearheading a hub that fosters shared learning and collaboration and creativity. <https://bit.ly/m/Open-Innovation-Lab>
- 2023- **Member Expert, World Economic Forum**  
Biotechnology, Pandemics and Emerging Threats  
<https://www.weforum.org/people/anita-gupta/>
- 2023- **Program Lead, IDEAS Lab**  
Designed research program in collaboration with CA based medical school on health innovation. This research program led to over 8 research studies and disseminated in anesthesiology and pain societies regionally through collaboration with CA state regional medical societies focused on anesthesiology.
- 2020- **Volunteer Adjunct Faculty, DEI Committee, ACCM, Johns Hopkins**  
Member of the DEI ACCM Committee and contributor to book club on matters related to diversity, inclusion and equity for the department.
- 2020- **Volunteer Adjunct Faculty, Johns Hopkins India Institute**  
Affiliate member of the institute and contributor on advocacy for international global health in India for women's health and education and fundraising efforts for the institute
- 2011-2017 **Vice Chair, Pain Division**  
Designed pain educational curriculum in collaboration with PA based medical school on pain and pharmacology core principles. This educational curriculum expanded over medical students, residents, attendings to local and regional communities.
- Clinical Demonstration Activities to external audience, on or off campus
- 2015 **Course Instructor**  
Ultrasound Guided Regional Anesthesiology  
Hershey Medical Center, PA
- 2014 **Course Director**  
Ultrasound Guided Regional Anesthesiology  
Drexel University College of Medicine, PA
- Development of nationally/internationally recognized clinical standard of care.
- 2023- World Economic Forum, Member Expert, Biotechnology, Pandemics and Emerging Threats.  
<https://www.weforum.org/people/anita-gupta/>
- 2024- Milken Institute, Advancing Innovative Treatments for Mental Health Care  
<https://milkeninstitute.org/report/mental-health-care-innovative-treatments>

- 2023- US National Academies of Medicine, National Cancer Policy Forum  
Developing a Multidisciplinary and Multispecialty Workforce for Patients with Cancer  
<https://www.nationalacademies.org/documents/embed/link/LF2255DA3DD1C41C0A42D3BEF0989ACAECE3053A6A9B/file/DE82F56CB64A18F155B1C0FCB8E6BF02682DFB16747E?noSaveAs=1>
- 2023- Milken Institute, Progress and Innovation: The Dawning of a New Day in Treating Mental Health  
<https://milkeninstitute.org/panel/14400/progress-and-innovation-dawning-new-day-treating-mental-health>
- 2023- Milken Institute, Workforce and the Drug Crisis: Leidos CEO Collaborative Action Plan  
<https://milkeninstitute.org/report/final-recap-leidos-ceo-pledge-collaborative-action-group>
- 2021- Meet the Women Changing Pain Medicine  
<https://www.medcentral.com/pain/meet-women-changing-pain-medicine>
- 2021- Healthy Women, US FDA Policy Nomination for Candidate as Commissioner  
<https://www.healthywomen.org/health-care-policy/statement-dr-anita-gupta-healthywomen>
- 2020- US Food and Drug Administration Pharmacy and Manufacturing Committee Guidance
- 2020- US National Quality Forum, Opioids and Opioid Use Disorder: Quality Measurement  
[https://www.qualityforum.org/Projects/nr/Opioid\\_and\\_Opioid\\_Use\\_Disorder\\_TEP/Final\\_Report.aspx](https://www.qualityforum.org/Projects/nr/Opioid_and_Opioid_Use_Disorder_TEP/Final_Report.aspx)
- 2020- Milken Institute, Early Warning Systems for Pandemic Threats  
<https://milkeninstitute.org/article/milken-institute-launches-early-warning-initiative-emerging-pandemic-threats-covid-19-cases>
- 2019- Milken Institute, How Drug Trafficking is Fueling the Opioid Crisis  
<https://milkeninstitute.org/videos/how-drug-trafficking-fueling-opioid-crisis>
- 2019-2020 US National Academies of Medicine, Innovation of Health Professional Education  
<https://www.nationalacademies.org/our-work/global-forum-on-innovation-in-health-professional-education>
- 2016-2018 US Food and Drug Administration, AADPAC Advisory Committee Guidance
- 7/5/2015 US FDA Testimony on behalf of the American Society of Anesthesiologists For Naloxone (Narcan) Expansion  
<https://www.asahq.org/advocacy-and-asapac/fda-and-washington-alerts/washington-alerts/2015/07/asa-urges-fda-to-expand-access-to-naloxone>
- 12/5/2015 Congressional Briefing on Opioid Abuse Epidemic  
<https://www.asahq.org/advocacy-and-asapac/fda-and-washington-alerts/washington-alerts/2015/12/asa-member-presents-at-capitol-hill-briefing-on-opioid-abuse-epidemic>

#### Classroom instruction for clinical trainees and residents

2023–Present	Clinical Colloquium and Clinical College Education Instructor Medical student education on core education pre-clinical concepts
2023–Present	Clinical Skills Training and Pre-Clerkship Education Instructor Medical student education during pre-clerkship education
2023–Present	Airway Management and Intubation: Clinical Skills and Emergency Management Instructor Medical student clinical skills orientation and lecture series
2023–Present	Masterclass on Ultrasound Use in Regional Anesthesiology Instructor Medical student clinical skills orientation and lecture series
2023–Present	Resident Education on Ultrasound Guidance for Central Line Placement Instructor Resident clinical skills lecture and workshops Ultrasound guidance workshop on central line access, standardized patient interviews, emergency training using simulation settings.
2023–Present	Video Laryngoscopy and Intubation Simulation Workshop Instructor Designed and implemented an educational simulation workshop around core airway management on video laryngoscopy and basic intubation skills for medical students using simulation concepts including evidence-based medicine.

#### Clinical instruction

2023–Present	Medical Student Curriculum Development, Clinical Case Development Instructor Clinical Case Development for Education Discussion (~8 cases per year)
2012–2017	Anesthesiology Resident Training Instructor Supervise/teach residents during rotation (~4 residents per month)
2012–2017	Regional Anesthesiology Fellows Instructor Supervise/teach subspecialty fellows during clinical service (~1 fellows/year)
2012–2017	Anesthesia Medical Students Instructor Supervise/teach in the operating room (~4 students per month)
2012–2017	Pharmacology Lecture, Medical Student Instructor Medical student instruction/mentoring on pain and opioid pharmacology



## RESEARCH ACTIVITIES

### Research Focus

My research focus as a pain physician expert encompasses a broad spectrum of investigations aimed at advancing our understanding and treatment of pain. I am deeply committed to exploring innovative approaches that integrate insights from pharmacology, neurobiology, and clinical practice to address the multifaceted nature of pain. One area of my research endeavors is dedicated to unraveling the underlying mechanisms of chronic pain conditions, such as neuropathic pain and fibromyalgia. Through rigorous investigation, I strive to identify novel therapeutic targets that can lead to more effective treatments and improved outcomes for patients. In addition to basic science inquiries, I am actively involved in clinical research aimed at evaluating the efficacy and safety of pharmacological interventions for pain management. By conducting rigorous clinical trials and observational studies, I seek to optimize treatment strategies while minimizing the risks associated with analgesic medications. Furthermore, I am passionate about health policy research related to pain management. I endeavor to influence policy decisions at the national level by providing evidence-based recommendations that promote access to effective pain care while addressing concerns surrounding opioid misuse and addiction. Overall, my research focus reflects my dedication to advancing the field of pain medicine through comprehensive investigations that bridge the gap between basic science, clinical practice, and public health policy. Through innovative research initiatives, I aim to alleviate the burden of pain for individuals worldwide and improve the quality of life for those living with chronic pain conditions.

### Research Program Building and Leadership

- 2024- **Open Innovation Hub, University of California Riverside School of Medicine**  
Student led next gen initiative on open innovation, leadership and social impact for driving change in public health
- 2023- **Member, Gates Foundation, National Institutes of Health**  
Innovation Equity Forum  
[https://orwh.od.nih.gov/sites/orwh/files/docs/womens-health-rnd-opportunity-map\\_2023\\_508.pdf](https://orwh.od.nih.gov/sites/orwh/files/docs/womens-health-rnd-opportunity-map_2023_508.pdf)
- 2023- **Member Expert, World Economic Forum**  
Biotechnology, Pandemics and Emerging Threats  
<https://www.weforum.org/people/anita-gupta/>
- 2023 **IDEAS Innovation Lab, Program Lead, California Uni. of Sciences and Medicine**  
As Program Lead of the IDEAS Lab, developed over >8 research innovation projects focused on public health, anesthesiology, pain emerging matters focused on medical student research-based projects.
- 2012-2017 **Vice Chair, Pain Research Division at Drexel University College of Medicine**  
As Vice Chair of the Pain Division developed research protocols, IRBs, and projects for the department and division leading to financial grant funding for the institution.

### Research Demonstration Activities

- 10/2015 **Gupta A.** Iatrogenic Drug Induced CRPS. Medically Challenging Case. American Society of Anesthesiology
- 10/2015 **Gupta A.** Cooled Radiofrequency Ablation for Osteoarthritis of the Knee. Medically Challenging Case. American Society of Anesthesiology



- 10/2015 **Gupta A.** Opioid Induced Constipation. Medically Challenging Case. American Society of Anesthesiology
- 2014 **Gupta A.** A Single-Center, Randomized, Open Label Trial to Compare the Safety and Efficacy of Intravenous Ibuprofen Versus Intravenous Ibuprofen Plus Intravenous Acetaminophen in Total Knee or Hip Arthroplasty Surgeries. International Anesthesia Research Society
- 5/2014 **Gupta A.** A Single-Center, Randomized, Open Label Trial to Compare the Safety and Efficacy of Intravenous Ibuprofen Versus Intravenous Ibuprofen Plus Intravenous Acetaminophen in Total Knee or Hip Arthroplasty Surgeries. Pennsylvania Society of Anesthesiology
- 10/2013 **Gupta A.** Post-Surgical Acute Myelopathy in a Chronic Pain Patient. Medically Challenging Case. American Society of Anesthesiology
- 2012 **Gupta A,** Ramasubbu C. A Novel Immunologic Biomarker for Lumbar Radiculopathy Identified Via Epidural Technique. World Congress of Pain. Granada, Spain.
- 2010 **Gupta A.** Bhatia G. Comparative Review of Patients' Perception of Pain Care in United States: Review of HCAHPS 2008 and 2009 data. International Association for the Study of Pain. Montreal CA.
- 2010 **Gupta A.** Bhatia G. Comparative Review of Patients' Perception of Pain Care in United States: Review of HCAHPS 2008 and 2009 data. International Association for the Study of Pain. Montreal CA.
- 2/2010 **Gupta A.** Patton C. Retrospective clinical evaluation of physician opioid prescribing practices in patients with aberrant behaviors. American Academy of Pain Management.
- 10/2009 **Gupta A.,** Daigle S., Mojica J., Hurley RW. Patients' Perception of Pain Care in United States: Review of HCAHPS 2008 data. American Society of Anesthesiology, Oral Presentation. New Orleans, LA.
- 4/2008 Bourdi M., M Korrapati., **Gupta A.,** Chakraborty M., Pohl L. Molecular and Cellular Toxicology Section, LMI, NHLBI, NIH, DHHS Halothane – Induced Liver Injury in Balb/C and C57BL/6 Mice: Role of Metabolism and Endoplasmic Reticulum Stress in Animal Susceptibility. 3rd International Drug Hypersensitivity Meeting. Presented on April 11-13, 2008, Paris, France.

## SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

### System Innovation Focus

In my endeavor to innovate healthcare systems, I am dedicated to crafting and executing transformative strategies that elevate patient care, enhance healthcare outcomes, and optimize resource allocation. Drawing from my expertise as a pain physician, my primary mission is to reshape healthcare systems to better cater to the needs of individuals grappling with chronic pain and complex medical conditions. Central to my approach is the utilization of cutting-edge technology and data analytics to streamline clinical workflows and bolster decision-making processes. By harnessing electronic health records, telemedicine platforms, and predictive analytics, I endeavor to facilitate seamless communication among healthcare providers, ultimately fostering more personalized and efficient patient care. Moreover, I am deeply committed to fostering interdisciplinary collaboration and care coordination across healthcare domains. Through initiatives such as integrated pain management programs and multidisciplinary care teams, I aim to dismantle silos and cultivate a comprehensive approach to patient care that addresses not only physical ailments but also psychosocial and emotional well-being. Additionally, I advocate for policy reforms that champion system innovation and healthcare transformation. By engaging with policymakers, healthcare leaders, and advocacy organizations, I strive to shape legislation and regulations that advance value-based care, incentivize innovation, and enhance access to top-tier healthcare services for all. Overall, my system innovation focus epitomizes my dedication to catalyzing positive change within the healthcare landscape. Through a blend of innovation, collaboration, and advocacy, I am committed to building resilient and patient-centric healthcare systems that empower individuals to lead healthier and more fulfilling lives.

### System Innovation and Quality Improvement efforts outside of JHMI:

2024-

#### **Professor, Medicine, Digital Art of Medicine and the Pursuit of Health Equity**

As a leader in the digital transformation of healthcare, I have significantly advanced the understanding of the digital art of medicine, with a strong emphasis on trust, empathy, and health equity. My keynote address at the National Academy of Medicine and contributions to pivotal reports, such as the NASEM's "Reimagining Patient-Centered Care During a Pandemic," highlight my commitment to integrating digital trust and patient advocacy into clinical practice. I received the NAP Patient Advocacy Award for my innovative work in defining digital health equity and have presented at prestigious forums, including the Gates Foundation and NIH Innovation Equity Forum, focusing on equitable healthcare access for underserved populations. My research has been featured in notable publications like Forbes and McKinsey, and I have developed and recorded educational content for institutions such as Florida Atlantic University, further solidifying my role as an expert in telehealth and compassionate care. Through mentorship and collaboration with industry leaders, I strive to foster a multidisciplinary workforce dedicated to improving patient outcomes and addressing disparities in healthcare.

2023-2023

#### **Chief Surgeon, City of New York**

As Chief Surgeon for the City of New York, I spearheaded transformative initiatives to enhance the quality, safety, and accessibility of uniformed members care across the city's public healthcare system. Collaborating with an interdisciplinary team of clinicians, administrators, and policy experts, I championed evidence-based strategies to streamline workflows, optimize resource allocation, and implement standardized best practices. Under my leadership, we launched comprehensive programs, leveraging data analytics and performance benchmarking to identify areas for process optimization.

2022-2023

#### **Anesthesiologist, Department of Anesthesiology, University of California, Los Angeles**

As an attending physician anesthesiology, per diem staff member in the Department of Anesthesiology at the University of California, Los Angeles (UCLA), I shared in the shared roles of advancing academic excellence, fostering interprofessional collaboration, and driving improvement initiatives within the renowned health system. In collaboration with faculty and residents, I identified areas for workforce well-being and team-based care, and while focusing on patient experience best practices. Additionally, I shared educational models to focus on innovative models of pain analgesia by dissemination of best practices during clinical teaching among medical students and clinicians, contributing to improved patient care across the UCLA Health system.

2021-2021

**Head, Pain Division, Scripps Health**

In 2021, while serving as the Head of the Pain Division at Scripps Health, the institution faced an unprecedented cybersecurity crisis that threatened the integrity of operations and the privacy of patients' data. A sophisticated cyberattack breached systems, exposing vulnerabilities in digital infrastructure and compromising sensitive medical records. Recognizing the gravity of the situation, I swiftly assembled a cross-functional pain task force comprising pain team experts, and senior leadership to mount a coordinated response to contain the breach, safeguard patient data, and ensure the continuity of critical pain management services and moving to paper-based records. In close collaboration with our team, we implemented a comprehensive pain treatment plan with the cross functional teams on an interim basis. I took the lead in coordinating with pain services and to ensure compliance with data privacy regulations and to leverage their expertise in incident response and recovery efforts. This involved implementing manual processes, reallocating resources, and coordinating with other healthcare providers to ensure access to care for our pain patients.

2012-2017

**Vice Chair, Pain Division, Pain Quality and Program Development Initiative  
Drexel University College of Medicine**

Led the development and implementation of Key Performance Indicators (KPIs) for the perioperative pain service, encompassing regional anesthesia, chronic pain management, acute pain management, palliative care, and interventional pain procedures. Established comprehensive metrics to measure service quality, efficiency, and patient outcomes across diverse pain management modalities. Facilitated a substantial over 100% year-over-year growth from 2012 to 2017 in the pain services, driven by data-driven decision-making, continuous process improvements, and the implementation of evidence-based best practices based on the KPI analysis.

**System Innovation and Quality Improvement Program Building/Leadership:**

2012-2017

**Vice Chair, Pain Division, Pain Service Line and Leadership Development Initiative,  
Drexel University College of Medicine**

Served as the lead for the Perioperative Pain Service, overseeing a multidisciplinary team and driving substantial growth of over 100% year-over-year from 2012 to 2017. Implemented process improvements, expanded service offerings, and optimized resource allocation to meet the increasing demand for perioperative pain management services. Pioneered the development and implementation of Key Performance Indicators (KPIs) for pain services across regional anesthesia, acute pain management, chronic pain management, palliative care, and interventional pain procedures. Developed a comprehensive framework to measure and monitor service quality, patient outcomes, and operational efficiency across diverse pain management service lines. Achieved a remarkable over 100% year-over-year increase in the number of training initiatives from 2012 to 2017, reflecting the growing demand and recognition of the program's effectiveness.

2012-2017 **Vice Chair, Pain Division, Regional Fellowship Development Initiative**  
**Drexel University College of Medicine**

Spearheaded the development and execution of Regional and Ultrasound Training initiatives, aimed at enhancing the knowledge and skills of residents, upskilling of attending physicians, and medical students in the field of perioperative pain management.

2012-2017 **Vice Chair, Pain Division, Pain Research, Education, Development Initiative**  
**Drexel University College of Medicine**

Designed and delivered comprehensive educational programs, including didactic sessions, hands-on workshops, and case-based discussions, covering the latest evidence-based practices, emerging techniques, and best practices in perioperative pain management.

NOT YET RETAINED

## ORGANIZATIONAL ACTIVITIES

### Professional Societies

- 2024- Board Member, California Council of Economic Education
- 2022-  
Member, California Society of Anesthesiologists  
Member, American Society of Anesthesiologists  
Pain Committee Member  
USP Delegate Member  
QMDA Committee Member  
Member, Chief  
Member, Harvard Women Executive on Corporate Boards  
Member, National Association of Corporate Directors  
Member, Johns Hopkins India Institute, Johns Hopkins School of Medicine
- 2020-  
Distinguished Fellow, Member, National Academies of Practice
- 2019-  
Member, National Academies of Sciences, Engineering and Medicine
- 2011-  
Member, American Society of Regional Anesthesiology and Pain Medicine  
Member, American Society of Anesthesiologists (ASA)
- 2003-  
Member, American Heart Association: Advanced Cardiac Life Support, and Basic Life Support
- 2022-2023  
Board Member, California Society of Anesthesiologists
- 2018-2024  
Member, Women Presidents Organization
- 2017-2019  
Pain Committee Member, American Society of Anesthesiologists
- 2017-2022  
Media and Communications Committee Member, American Society Anesthesiologists
- 2012-2017  
Member, Pennsylvania Society of Anesthesiologists, PA  
Member, Pharmacy and Therapeutics Committee, Drexel Univ. College of Medicine  
Member, Medical School Admissions Committee, Drexel Univ. College of Medicine  
Member, Clinical Pain Research Committee, Drexel Univ. College of Medicine  
Member, World Health Organization Global Initiative on Emergency & Essential Care
- 2010-2012  
Chair, Pharmacotherapy Special Interest Group, American Pain Society
- 2009-2015

Member, International Association for the Study of Pain (IASP)

2007-2015

Member, American Pain Society (APS)

2002-2003

Alumni Affairs Chair, Univ. of Medicine and Dentistry of NJ (UMDNJ)

2001-2003

Publications Advisory Chair, American Association of Physicians of India (AAPI)

2001-1999

Vice President, Student Government Organization, Univ. of Medicine and Dentistry of NJ

#### [Institutional Administrative Appointments](#)

2022-

Co-President, Regional, Alumnae Network of Harvard Women  
Advisor, Milken Institute  
Board Council, Healthy Women

2021-

Member, HBS NY Angels  
Ambassador, Harvard Business School, General Management  
Regional Director, Harvard Business School Healthcare Association

2020-

Member, San Diego Angels  
Dean, Academy of Judges, Sharecare Awards, Sharecare Foundation  
Advisor, National Organization of Rare Diseases  
Board Advisor, Bionaut, Inc.  
Board Governor, Asian Alumni Association of Princeton University  
Chair, Graduate Alumni, Princeton University Alumni Association  
Board Advisor, Peer Board, Healio, Inc.  
Member, Business Council, Forbes  
Ambassador, National Organization of Rare Diseases

2019-2022

Board Director, Healthy Women

2020-2022

Advisory Council, Milken Institute, Faster Cures

2016-2017

Board Director, Amorsa Therapeutics, Inc.

2017-2019

Board Director, New Jersey Society of Anesthesiologists

## Editorial Board Appointments

2017-

Editorial Board, Pain Management  
Editorial Board, Journal of Pain and Symptom Management  
Editorial Board, Journal of Pain, Pharmacotherapy, and Palliative Care

## Ad Hoc Journal peer review activities

2017-

Pharmacist Letter  
British Medical Journal  
Journal of Opioid Management  
Aging  
Journal of Pain  
Regional Anesthesiology and Pain Medicine  
Pain Medicine  
Pain  
Expert Opinion in Pharmacotherapy

## Conference Organizer

1/17/2020 US Government Women in Leadership: OWH FDA Commissioner, CMO HHS  
11/12/2019 US Government Leadership Panel: U.S. Surgeon General, San Diego, CA

## Session Chair

2019-2020 Milken Institute, Faster Cures, Biomedical Innovation Chair, Equitable Access

## International Awards and Honors

2022 Patient Advocacy Award, National Academies of Practice  
2021 Sharecare Award Finalist, COVID Vaccines, Cancer Awareness Advocacy  
2021 Top 10 Women of Influence, Fierce Healthcare  
2020 Top 100 Inspiring Leader, PharmaVoice  
2020 Top 10 Global Emerging Leader, Pharmaceutical Executives  
2020 Goldman Sachs 10K Small Business Scholar  
2020 Harvard Business School, Strategy Award Finalist, General Management  
2020 Harvard Business School, Graduation Speaker, General Management  
2020 Athena Pinnacle Award Finalist, Life Sciences  
2016 Philadelphia Business Magazine Healthcare Professional to Know  
2016 American Society of Anesthesiology Legislative Conference, Mention, Whitehouse  
ONDCP Michael Botticelli  
2015 Learner American Association of Medical Colleges Learner Award  
2016 Compassionate & Patients Choice Award, Outstanding Patient Care Recognition  
2015 Research Award, Pennsylvania State Anesthesiology Research Competition,  
Pennsylvania Society of Anesthesiology  
2011 First Place Research Award, Pennsylvania State Anesthesiology Research  
Competition, Pennsylvania Society of Anesthesiology  
2004 Shining Star, Patient Care Recognition, Georgetown University Hospital  
2005 Legislative Resident ASA Delegate, American Society of Anesthesiologists  
2003 Leadership Award, Graduation and Convocation Award, Univ .of Medicine Dentistry  
of NJ



2002	Third Place Research Award, American Association of Physicians of India Annual Meeting
2002	Third Place Research Award, Annual Research Day, Univ. of Medicine and Dentistry of NJ
2001	National Institutes of Health Research Scholarship, Centers for Drug Evaluation Research
1998	Rutgers University Pharmacy Kirkwood Scholarship, Schering Plough Merit Scholarship, Levine Merit Scholarship

### Speaker, Invited Talks

#### National

1. 9/7/24, Women Pain Matters: Expert Insights and Best Practices, OPSC 2024 Meeting, Monterey, CA
2. 6/2024: Presented at the Gates Foundation and NIH - Innovation Equity Forum Meeting on underserved women's health populations.
3. 6/2024: Presented at the Milken Institute on Mental Health in the Workforce and Health Equity and whole person health focused on women's health and underserved populations.
4. 2/23/24, Pain Management and Opioids: Balancing Risks and Benefits. OPSC, Coronado, CA.
5. 12/9/23, Pain Management and Opioids: Balancing Risks and Benefits. Illinois Osteopathic Medical Society, Chicago, IL
6. 10/8/2023, Pain Management and Opioids: Balancing Risks and Benefits. OPSC, Monterey, CA.
7. 11/2023, Harvard Business School, Panelist, Speaker. General Management Program. Boston, MA
8. 7/18/2022: Developed and recorded a lecture on Digital Trust, Empathy, and Touch at Florida Atlantic University, integrating online Telehealth coursework with a focus on DEI.
9. 6/15/2022: Presented at the Future of Health: Telehealth Transformation in the Life Sciences at Fierce Digital Pharma, Huntington Beach, CA.
10. 2022, Harvard Business School Healthcare Alumni Association, Moderator, Speaker, Future of Health: Leading ESG Transformation in Healthcare. Boston. MA.
11. 2022, Harvard Business School Healthcare Alumni Association, Moderator, Speaker, Future of Health: Digital Transformation of Healthcare. Boston, MA.
12. 3/19/ 2021, National Academies of Practice, Keynote Speaker, Redefining the Digital Art of Medicine. Washington DC. Delivered a keynote address at NAP on "Defining the Digital Art of Medicine," emphasizing DEI and health equity.
13. 2020, Johns Hopkins School of Medicine, Perfecting the Patient Experience. Baltimore. MD
14. 2020, McKinsey, Speaker, Medical Affairs Leader Forum. NY. NY
15. 2020, Massachusetts Institute of Technology, Speaker, Moderator, Opioid X Meeting: New Approaches to Addressing the Opioid Crisis. Boston. MA.
16. 2019, Healthy Women National Summit, Keynote Speaker, Chronic Pain in Women, Washington DC.
17. 2019, National Academies of Sciences, Engineering and Medicine, Global Forum, Speaker, Patient Engagement and Pain, Washington DC.
18. 2019, Milken Institute, Global Forum Meeting, Moderator, Opioid Crisis and the Third Wave, Los Angeles, LA.
19. 2018, Alliance for Balanced Pain Management, Global Summit, Opening Speaker, Patient Engagement in the Treatment of Pain. Washington DC.
20. 2018, National Organization of Rare Diseases, Keynote Speaker, Opening Speaker, Patient Experience in Rare Diseases, Washington DC.

21. 2018, American Society of Anesthesiology, Moderator, Opioids in Perioperative Pain Care
22. 2018, Princeton University, The Opioid Crisis: Pain, Pills and Prescriptions, Princeton, NJ
23. 2018, Robert Wood Johnson, Cancer Institute of New Jersey, The Prescription Opioid Crisis: What Future Doctors Need to Know, NJ
24. September 2019, University of Southern California, School of Pharmacy, Controlled Drug Release Technology, Los Angeles, CA
25. August 2019, Healthy Women, Ellicott City, MD, Keynote Speaker, Chronic Pain in Women
26. April 2019, National Academies of Sciences, Washington DC, Global Forum on Innovation in Health Professional Education, Invited Presenter on Patient Engagement and Pain.
27. May 2019, Milken Institute, Speaker and Moderator, Global Meeting, Los Angeles, CA, Opioid Crisis and the Third Wave
28. November 2018, Alliance for Balanced Pain Management, Washington DC, Moderator and Speaker, The Role of Patient Engagement in the Treatment of Pain
29. October 2018, National Organization of Rare Diseases (NORD), Keynote Speaker and Opening Speaker for National Summit 2018
30. October 2018, Princeton University, She Roars 2018 Meeting, Author's Book Presentation, 50 Studies Every Anesthesiologist Should Know
31. October 2018, American Society of Anesthesiology, 2018 Annual Meeting Presentation, Opioid Best Practices
32. September 2018, Princeton University, Design Thinking in Global Health, Keller Center of Innovation, NJ
33. November 2018, Drexel University College of Medicine, Pain Management Grand Rounds Lecture Series, Department of Anesthesiology, Perioperative and Pain Medicine "The Opioid Crisis: Pain, Pills and Prescriptions".
34. April 18, 2018, Lecture Presentation, Pills, Prescriptions and Pain: Understanding the Opioid Crisis. Robert Wood Johnson and the Cancer Institute of New Jersey, New Brunswick, New Jersey.
35. January 30, 2018, Moderator, Presentation with Senator Portman from Ohio, Capitol Hill Briefing, Opioid Crisis and the Gateway of Addiction, Capitol Hill, Washington D.C.
36. March 14, 2018, Keynote Speaker, American Society of Interventional Pain Physicians, Orlando, FL, Opioid Crisis: Pain, Pills and Prescriptions.
37. June 7, 2016, Presentation, Senator Ed Markey and Staff on Capitol Hill, Washington DC on Prescription Opioid Abuse
38. June 7, 2016, Presentation, Office of Surgeon General, HHS, Washington DC, on Prescription Opioid Abuse, Health and Human Services.
39. May 7, 2016, Keynote Speaker, Prescription Opioid Epidemic: Problem, Solutions, Innovation and Technology. American Association of Physicians of India, Boston, MA.
40. May 2, 2016, Oral Presentation, Chronic Disease Track, Massachusetts Institute of Technology, Hacking Medicine Institute, Boston MA.
41. May 2016, Keynote Speaker, True Colors in Medicine: Communication Skills for the Healthcare Leader. Annual Retreat. Drexel University College of Medicine, Philadelphia, PA.
42. April 6, 2016, Speaker. Nashville, Tennessee Opioid Crisis. Congresswoman Black from TN, Congresswoman Mary Bono from CA, US Attorney David Rivera, CDC's Joann Yoon, HHS Director Kelly Johnson Guest Speakers. Speaking at forum with leaders from government, industry, and academia on using innovation, policy, and technology on solving public health issues and improving healthcare for people in pain.

43. February 9, 2016. Speaker. Comfort Campaign: Initiative to Improve Periop Pain Control. Hahnemann University Hospital, Philadelphia, PA.
44. February 2016. Speaker, Can Pharmacogenetic Testing Improve the Treatment of Pain? Greater Philadelphia Pain Society Meeting, Philadelphia, PA.
45. December 4, 2015. Speaker, Capitol Hill Congressional Briefing with Congressman Ami Bera and Mary Bono. Multimodal Pain Treatments to Address Opioid Crisis.  
<http://www.asahq.org/advocacy/fda-and-washington-alerts/washington-alerts/2015/12/asa-member-presents-at-capitol-hill-briefing-on-opioid-abuse-epidemic>
46. November 20, 2015. Speaker, Women in Government with ONCDP Mary O'Leary. Multimodal Pain Treatments to Address Opioid Crisis.
47. October 2015. Speaker, Future of Medicine: Where Can Innovative Health Technology Take Us to Treat Chronic Disease. Women's Health and Musculoskeletal Institute Annual Meeting. Drexel University College of Medicine, Philadelphia, PA.
48. October 2015. Speaker, Prescribing Opioids in 2015. What You Need to Know. Virginia Commonwealth University, Richmond, VA.
49. October 2015. Speaker, Treating Pain in the Geriatric Population. American Society of Anesthesiology, San Diego, CA.
50. October 2015. Speaker, Personalized Medicine and Pharmacogenetic Testing: Pros and Cons. American Society of Anesthesiology, San Diego, CA.
51. October 2015. Speaker, Epidural Steroid Injections: Pros and Cons. American Society of Anesthesiology, San Diego, CA.
52. Sept 2015, Keynote Speaker, American Academy of Pain Management Annual Meeting, Washington D.C.
53. July 2, 2015. ASA Urges Expanded Access to Naloxone at FDA Meeting.  
<https://www.asahq.org/advocacy/fda-and-washington-alerts/washington-alerts/2015/07/asa-urges-fda-to-expand-access-to-naloxone>
54. May 2015. Moderator, Ultrasound Guided Regional Anesthesiology Workshop. Hershey Medical Center, Hershey, PA.
55. October 2014. Grand Rounds Speaker, Management of Non-Cardiac Morbidity Perioperatively. Department of Anesthesiology, Drexel University College of Medicine, Philadelphia, PA.
56. October 2014. Speaker, Best Practice in Acute Pain Service. ECRI (Emergency Care Research Institute). PA.
57. Sept 2014, Speaker, Personalized Medicine and Pharmacogenetics in the Treatment of Pain, Pain Week 2014, Las Vegas, NV
58. June 2014. Grand Rounds, Can Pharmacogenetic Testing Improve the Treatment of Pain. Department of Obstetrics and Gynecology, Drexel University College of Medicine, Philadelphia, PA.
59. May 2014. Moderator, Ultrasound Guided Regional Anesthesiology Workshop. Hershey Medical Center, Hershey, PA.
60. March 2014. Grand Rounds, Optimizing Perioperative Pain Control. Robert Wood Johnson University Hospital, NJ.
61. November 2013. Speaker, Best Practices for Adjuvant Therapy for Pain Management. American Society of Regional Anesthesiology. Annual Meeting. Phoenix, AZ.
62. November 2013. Speaker, Personalized Pharmacogenetic Testing for the Treatment of Pain. American Society of Regional Anesthesiology. Annual Meeting. Phoenix, AZ.
63. October 2013. Speaker. Best Practices for Treating Pain in Women. Women's Health Education Project, Drexel University College of Medicine, Philadelphia, PA.

64. Jan 2013. Grand Rounds, Successful Management of Pain Conditions. Drexel University College of Medicine, Philadelphia, PA.
65. Jan 2013, 2014, 2015, 2016, Medical School Lecturer, Pain Management Principles and Practice, Medical Student Pharmacology Lecture Series, Drexel University, College of Medicine, PA
66. May 2013, Speaker, Pain Management Principles and Practice, Women's Health Education Program, Drexel University, College of Medicine, PA.

NOT YET RETAINED