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Curriculum Vitae

Post-graduate Training:

2015 – 2016: Pain Medicine Fellowship, University of Vermont Medical Center
2012 – 2015: Anesthesiology Residency, University of Vermont Medical Center
2011 – 2012: Preliminary Medicine Intern, University of Vermont Medical Center

Education:

2007 – 2011: M.D., Indiana University School of Medicine
2006 – 2007: M.S., Biology, Purdue University
2002 – 2006: B.S., Health Sciences, Purdue University

Certifications:

2017: American Board of Anesthesiology, Pain Medicine, Certified
2016: American Board of Anesthesiology, Anesthesiology, Certified

Licensure:

2016 – Present: Pennsylvania State Medical License
2015 – Present: Drug Enforcement Administration License
2011 – 2016: Vermont State Medical License

Memberships:

2016 – Present: American Society of Anesthesiologists (ASA)
2014 – Present: American Society of Regional Anesthesia & Pain Medicine (ASRA)

Faculty Appointments, Positions, & Committees:

2026 – Present: Associate Professor, Department of Anesthesiology, Thomas Jefferson University, Sidney Kimmel College of Medicine, Philadelphia, PA

2026 – Present: Vice Chair of Clinical Operations, Department of Anesthesiology, Thomas Jefferson University, Sidney Kimmel College of Medicine, Philadelphia, PA

2025 – Present: Fellow, American Society of Regional Anesthesiology and Pain Medicine (ASRA)

2023 – Present: Faculty, American Society of Regional Anesthesiology and Pain Medicine (ASRA)

2024 – 2025: Associate Professor, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

2023 – 2025: Perioperative Pain Management Lead, Penn Medicine Opioid Task Force, University of Pennsylvania Health System

2022 – 2025: Division Chief, Regional Anesthesiology & Acute Pain Medicine, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine

2022 – 2025: Fellowship Program Director, Regional Anesthesiology & Acute Pain Medicine, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine

2017 – 2025: Senior Fellow, Leonard Davis Institute of Health Economics, University of Pennsylvania, Philadelphia, PA

2016 – 2024: Assistant Professor, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

2019 – 2022: Associate Faculty, American Society of Regional Anesthesiology (ASRA)

2019 – 2023: Co-Chair, University of Pennsylvania Health System's Opioid Task Force, Inpatient Sector

2020 – 2022: Co-Chair, Inclusion, Diversity, Equity, & Anti-Racism (IDEA) Committee, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

2019 – 2021: Member, White Paper on Postoperative Outpatient Acute Pain Management Workgroup, American Urology Association (AUA) & American Society of Anesthesiologists (ASA)

2018 – 2020: Co-Chair, Penn Presbyterian Medical Center's Pain Committee

2018 – 2021: Member, American Society of Regional Anesthesia & Pain Medicine (ASRA) Newsletter Committee

2018 – 2020: Co-Director, Penn Regional Anesthesia & Point of Care Ultrasound Workshop, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

2016 – 2025: CPORT Scholar, Penn Center for Perioperative Outcomes Research & Transformation, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

2015 – 2016: Clinical Instructor in Anesthesiology, University of Vermont College of Medicine, Burlington, VT

2015 – 2016: Committee member, Program in Integrative Health (PIH) Research Committee, University of Vermont Medical Center, Burlington, VT

2015 – 2016: Committee member, Culture of Quiet Team, University of Vermont Medical Center, Burlington, VT

Employment:

2026 – Present: General & Regional Anesthesiologist, Acute Pain Physician, Thomas Jefferson University, Sidney Kimmel Medical College, Philadelphia, PA

2016 – 2025: General & Regional Anesthesiologist, University of Pennsylvania Health System, Philadelphia, PA

2016 – 2025: Acute & Chronic Pain Medicine Physician, University of Pennsylvania Health System, Philadelphia, PA

2015 – 2016: General Anesthesiologist, The University of Vermont Health Network – Central Vermont Medical Center, Montpelier, VT

2015 – 2016: Pain Medicine Fellow, University of Vermont Medical Center, Burlington, VT

2012 – 2015: Anesthesiology Resident, University of Vermont Medical Center, Burlington, VT

2011 – 2012: Preliminary Medicine Intern, University of Vermont Medical Center, Burlington, VT

Teaching:

2026 – Present: Actively lecturing topics on general anesthesia, regional anesthesia, quality improvement, perioperative pain management to undergraduates, medical students, residents, fellows, Thomas Jefferson University, Sidney Kimmel Medical College, Philadelphia, PA

2016 – 2025: Actively lecturing topics on general anesthesia, regional anesthesia, quality improvement, perioperative pain management, chronic pain management to undergraduates, medical students, residents, fellows, University of Pennsylvania, Philadelphia, PA

2011 – 2016: Lectured topics of general anesthesia, regional anesthesia, quality improvement, anesthesia simulation scenarios, perioperative pain management, chronic pain management, to medical students, residents, and fellows, University of Vermont Medical Center, Burlington, VT

Invited Lectures:

2025:

- Invited as Faculty Lead for hands on regional anesthesia workshops at the American Society of Regional Anesthesiology (ASRA) and Pain Medicine Meeting, Orlando, FL

2024:

- Invited to teach “High Yield Peripheral Nerve Blocks” Workshop at the American Society of Anesthesiology (ASA) Conference in Philadelphia, PA
- Invited to teach "Regional Anesthesia in Cardiac Cases" at the American Society of Anesthesiologists (ASA) Conference in Philadelphia, PA
- Invited to speak on a panel of experts: “Clinical Dilemmas in Regional Anesthesia – Who Should/Should NOT Get a Block?”. 49th Annual Regional Anesthesiology (ASRA) and Acute Pain Medicine Meeting
- Invited to teach in regional anesthesia hands on workshops: “Neuraxial and Paraneuraxial Blocks”, “Blocks for Spine Surgery and Acute Back Pain”. 49th Annual Regional Anesthesiology (ASRA) and Acute Pain Medicine Meeting
- Invited to moderate e-poster sessions at the 49th Annual Regional Anesthesiology (ASRA) and Acute Pain Medicine Meeting

2023:

- “Benefits of Music in the Perioperative Space”: 48th Annual Regional Anesthesiology (ASRA) and Acute Pain Medicine Meeting
- "Tools for Comfort in the Theater for Awake Surgery”: Music & Virtual Reality", European Day Podcast, European Society of Regional Anesthesia & Pain Therapy (ESRA)
- Invited to teach at variety of regional anesthesiology workshops at the American Society of Anesthesiology (ASA) Conference
- Invited to teach "Regional Anesthesia in Cardiac Cases" at the American Society of Anesthesiologists (ASA) Conference

2022:

- Grand Rounds Presentation on Role of Music in the Perioperative Period, Department of Anesthesiology, Indiana University School of Medicine, Indianapolis, Indiana, USA
- Invited to teach at variety of regional anesthesiology workshops at the American Society of Anesthesiology (ASA) Conference
- Invited to teach "Regional Anesthesia in Cardiac Cases" at the American Society of Anesthesiologists (ASA) Conference

2021:

- Grand Rounds Presentation on Music vs Midazolam in Perioperative Nerve Blocks, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine
- "Tools for Comfort in the Theater for Awake Surgery”: Music & Virtual Reality", European Day Podcast, European Society of Regional Anesthesia & Pain Therapy (ESRA)
- "Music vs Midazolam in preoperative nerve blocks" - Webinar on Regional Anaesthesia for South East London Anaesthetic Registrars

2020:

- Invited to teach as Associate Faculty in the American Society of Regional Anesthesia & Pain Medicine 2020 Conference - San Francisco, CA
- American Medical Women's Association (AMWA) - Annual Premedical Region 3 Conference at the University of Pennsylvania

2019:

- Invited to teach at the American Society of Regional Anesthesia & Pain Medicine's (ASRA) Ultrasound-Guided Regional Anesthesia Educational Portfolio Cadaver course

- Invited to teach "Regional Anesthesia in Cardiac Cases" at the American Society of Anesthesiologists (ASA) Fall 2019 Conference, Orlando, FL
- Grand Rounds Presentation on Music vs Midazolam in Perioperative Nerve Blocks – preliminary results, Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine

2018:

- "Music vs Midazolam during Preoperative Nerve Block Placement: A Prospective, Randomized, Controlled Study" at American Society of Regional Anesthesia (ASRA) Spring 2018 Conference in New York City, NY

2017:

- "Role of Music in the Perioperative Setting", Invited as guest speaker for 2017 Women in Medicine Conference in Burlington, Vermont.
- 7th Annual Cadaver and Ultrasound Workshop for Regional Anesthesia and Other Applications

2016:

- Controlled Substance & Opioid Prescribing Educational Program - a public health advocacy program from the Pennsylvania Medical Society led by LifeGuard

2015:

- "Chronic Pain Patients' Awareness and Use of Validated Instruments to Search for Information on the Internet", 14th Annual American Society of Regional Anesthesia (ASRA) and Pain Medicine Meeting
- "Chronic Pain Patients' Awareness and Use of Validated Instruments to Search for Information on the Internet", 14th Annual American Society of Regional Anesthesia (ASRA) and Pain Medicine Meeting, Miami, Florida
- "Role of Music in the Perioperative Setting", Association of perioperative Registered Nurses (AORN) Northern Chapter
- "Benefits of Music in Electroconvulsive Therapy (ECT)", 9th Annual New England Anesthesia Resident Conference (NEARC), Portland, ME

2014:

- "Success of Ultra Rapid Opioid Detoxification (UROD) in a Chronic Pain Patient", 13th Annual American Society of Regional Anesthesia (ASRA) and Pain Medicine Meeting

2013:

- "AV Block Resulting from High Vagal Tone in an Obstetric Patient", 7th Annual New England Anesthesia Resident Conference (NEARC)

Editorial Positions:

2017 – Present: Peer Reviewed for following journals:

- Anesthesia & Analgesia
- Journal of Opioid Management
- Clinical Journal of Pain
- A&A Practice
- Pain Medicine Journal
- Perioperative Medicine Journal
- Regional Anesthesia & Pain Medicine

Peer-Reviewed Publications:

1. Ferd P, Kelly B, Thomas A, Yang A, Grosh T, **Graff V**. “Rebound Pain Comparison between Local Anesthetic Drug and Concentration in Adductor Canal Blocks for Total Knee Arthroplasty: A Quality Improvement Initiative.” Accepted for publication in *A&A Practice*. 2026.
2. Maloney D, Wung V, Grosh T, Cai L, **Graff V**. “Impact of Eliminating Gabapentinoids from an Orthopedic Enhanced Recovery Protocol on Postoperative Hypotension After Total Joint Arthroplasty.” Accepted for publication in *A&A Practice*. 2026.
3. **Graff V**. “The Anesthesia Clinical Director as the OR’s DJ: Mixing Flow, Energy, and Safety in Real Time.” Accepted for publication in *Anesthesia & Analgesia*. 2026.
4. **Graff V**, Yang A, Sztain J, Said E. “Billing Follow-Up for Single-Shot Nerve Blocks: A Documentation Solution to Preserve Patient Oversight and Revenue”. *Anesth Analg*. 2026 Jan 13. doi: 10.1213/ANE.0000000000007937. Epub ahead of print. PMID: 41529666.
5. Zhang, Xiaoxi et al. “Guidance for reporting artificial intelligence technology evaluations for ultrasound scanning in regional anaesthesia (GRAITE-USRA): an international multidisciplinary consensus reporting framework.” *Anaesthesia* vol. 80,12 (2025): 1528-1539. doi:10.1111/anae.16733.
6. Rolfzen M, Shah K, Rodriguez ES, Hoffman J, Clauw D, Mascha E, **Graff V**, Bartels K. “Postsurgical Medication Awareness, Recovery, and Tracking using a Phone-Based App (SMART-APP): a randomized clinical trial.” *Regional anesthesia and pain medicine*, rapm-2025-106783. 2 Jul. 2025, doi:10.1136/rapm-2025-106783
7. Gerner P, **Graff V**, Herman M, Stone AB. Cost of sterility: probe covers should not be mandated for single-shot peripheral nerve blocks. *Reg Anesth Pain Med*. 2024 May 22:rapm-2024-105519. doi: 10.1136/rapm-2024-105519. Epub ahead of print. PMID: 38777365.
8. Neuman MD, Elwyn G, **Graff V**, Schmitz V, Politi MC. My anesthesia Choice-HF: development and preliminary testing of a tool to facilitate conversations about anesthesia for hip fracture surgery. *BMC Anesthesiol*. 2024 May 1;24(1):165. doi: 10.1186/s12871-024-02547-0. PMID: 38693498; PMCID: PMC11061990.
9. Grosh T, Kim J, **Graff V**, Mariano ER, Elkassabany NM. Is there a correlation between Altmetric Attention Scores and citation count in *Regional Anesthesia and Pain*

- Medicine* journal articles? *Reg Anesth Pain Med.* 2022 May 17:rapm-2022-103554. doi: 10.1136/rapm-2022-103554. Epub ahead of print. PMID: 35580935.
10. **Graff V**, Clapp JT, Heins SJ, Chung JJ, Muralidharan M, Fleisher LA, Elkassabany NM. Patient Involvement in Anesthesia Decision-making: A Qualitative Study of Knee Arthroplasty. *Anesthesiology.* 2021 Apr 23. doi: 10.1097/ALN.0000000000003795. Epub ahead of print. [PMID: 33891695](#)
 11. **Graff V**, Cai L, Badiola I, Elkassabany NM. Response to letter, “Music therapy as sole anxiolytic may not replace standard pharmaceutical agents, but it is definitely contributory” by Dr Bhakta and Dr Harmon. *Reg Anesth Pain Med.* 2020;45(4):318. doi:10.1136/rapm-2019-101145. [PMID: 31792029](#)
 12. Ochroch J, Qi V, Badiola I, Grosh T, Cai L, **Graff V**, Nelson C, Israelite C, Elkassabany NM. Analgesic efficacy of adding the IPACK block to a multimodal analgesia protocol for primary total knee arthroplasty. *Reg Anesth Pain Med.* 2020 Oct;45(10):799-804. doi: 10.1136/rapm-2020-101558. Epub 2020 Aug 31. [PMID: 32868483](#)
 13. **Graff V**, Cai L, Badiola I, Elkassabany NM. Music versus midazolam during preoperative nerve block placements: a prospective randomized controlled study. *Reg Anesth Pain Med.* 2019;44(8):796-799. doi:10.1136/rapm-2018-100251. [PMID: 31320504](#)
 14. **Graff V**, Wingfield P, Adams D, Rabinowitz T. An Investigation of Patient Preferences for Music Played Before Electroconvulsive Therapy: *The Journal of ECT.* 2016;32(3):192-196. doi:10.1097/YCT.0000000000000315. [PMID: 27075143](#)
 15. **Kalapatapu VR**, Gilkey AP, Pascuzzi RM. Shostakovich and ALS. *Front Neurol Neurosci.* 2010;27:92-100. doi:10.1159/000311194. [PMID: 20375524](#)

Book Chapter Publications:

1. Lavani, Mital; Jennings, Chase; **Graff, Veena**: Comprehensive Perioperative Pain Management. From Preoperative Optimization to Transitional Postoperative Care. ISBN 978-3-032-11483-9. In print.
2. Ruth, Todd; **Graff, Veena**: Bisphosphonate infusions. Infusion Therapy. Alaa Abd-Elseyed MD (eds.). 2019.
3. **Graff, Veena**: Guillain Barre Syndrome. Pain: A Review Guide. Abd-Elseyed, Alaa (eds.). Springer, 2018.
4. **Graff, Veena**: Buprenorphine. Essence of Anesthesia Practice, 4th Edition. Fleisher, Lee (eds.). 2017.
5. **Graff, Veena**: Buprenorphine. Essence of Anesthesia Practice, 4th Edition. Fleisher, Lee (eds.). 2017.

Audio & Video Interview/Presentations:

1. Invited to a podcast interview, titled “Music in Medicine – Perioperative Management” with the Hospital for Special Surgery, 2024

2. Priyanka Ghosh MD, Lynn Kohan MD, MS, Veena Graff MD, MS: Kambin's Triangle Approach to Transforaminal Epidural Injections. **American Society of Regional Anesthesia & Pain Medicine (ASRA) Podcast** April 2020.
<https://asranews.buzzsprout.com/398209/3363079-kambin-s-triangle-approach-to-transforaminal-epidural-injections>
3. Music 'calms nerves before surgery' **BBC World News Live** July 2019
 - Part 1: <https://twitter.com/VeenaGraffMD/status/1152665096583356419>
 - Part 2: <https://twitter.com/VeenaGraffMD/status/1152697434826584064>
4. Michael Vlessides. Both Midazolam and Music Effective as Pre-Nerve Block Anxiolytics. **Anesthesiology News** October 2018 Notes: Video and newsletter article.
5. The Science of Pain. **Coursera** - The Oral Cavity: Portal to Health and Disease - University of Pennsylvania School of Dental Medicine 2017.
<https://fr.coursera.org/lecture/oralcavity/the-%20science-of-pain-dr-veena-graff%20%E2%80%A2-PO8Qd>
6. Carrese, Michael. Music and Surgery. **Health Source PODCAST** December 2015 Notes: Interview for podcast; featured on WIZN, WBTZ, WJOY, WKOL, WOKO in Vermont.
7. Bridget Barry Caswell: Using Songs to Help Surgery Patients Relax. **CBS Television Network, WCAX**, Vermont December 2015 Notes: TV news clip interview.
8. Graff, Veena. The Role of Music in the Perioperative Setting. **Audio Digest Anesthesiology [mp3]** 57(44), November 2015 Notes: ISSN 0271-1265.

Press Interviews & E-News Letter Articles:

1. Carlson, Caitlin: "Can This Music Improve Your Health" **Nike** April 2021 Notes: <https://www.nike.com/a/what-is-wellness-music>.
2. Jessica Delfino: I Sang Through Labor to Manage the Pain. **New York Times** March 2021 Notes: <https://www.nytimes.com/2021/03/09/parenting/pregnancy/singing-during-childbirth.html>.
3. Taitz, Jenny. Five-Minute Coronavirus Stress Resets - How to get unstuck from your anxiety. **New York Times**. August 2020.
4. Stacey Burling. 'World's most relaxing song' is an alternative to sedatives for surgical anxiety, Penn finds. **The Philadelphia Inquirer**. <https://www.inquirer.com/health/music-anxiety-surgery-nerve-block-weightless-20190726.html>
5. Carolyn Crist: Music may work as well as meds to reduce anesthesia-related anxiety. **Reuters** 2019. <https://nationalpost.com/pmnn/health-pmnn/music-may-work-as-well-as-meds-to-reduce-anesthesia-related-anxiety>
6. Dan Cook: Sounds of Sedation - Help Patients to Tune In to Tune Out. **Outpatient Surgery Magazine** October 2019. <http://magazine.outpatientsurgery.net/i/1174852-her-loss-their-gain-october-2019-subscribe-to-outpatient-surgery-magazine/11?>
7. Philippa Roxby: Music 'calms nerves before surgery' as well as sedative. **BBC News - Health** July 2019. <https://www.bbc.com/news/health-49033435>
8. Veena Graff MD & Taras Grosh MD: Multimodal Analgesia And Alternatives To Opioids For Postoperative Analgesia. **Anesthesia Patient Safety Foundation (APSF) Newsletter** October 2018.

9. Veena Graff MD: Pain after Spine Surgery. **CareContent along with U Penn Health System** for Neuroscience Blog 2017.
10. Ossola, Alexandra : Actually, the Weather Isn't Giving You Joint Pain. **TONIC** - a website and digital video channel that covers wellness, science and big- picture health issues. 2017 Notes: Interview for news clip.
11. Graff, Veena: Role of Music in the Perioperative Setting. **American Society of Regional Anesthesia (ASRA) and Pain Medicine 2017 Spring E-newsletter**. Donnelly, Melanie (eds.). May 2017.
12. Carolyn Shapiro: Implementation of Music During Surgical Procedures: Anesthesiologist/Musician Combines her Passion in Music and Medicine **University of Vermont College of Medicine** website September 2015.
13. Eleanor J. Osborne: The Music of Medicine. **ONE, News for Our Employees, University of Vermont Medical Center** 2014.