

**EMORY UNIVERSITY SCHOOL OF MEDICINE
STANDARD CURRICULUM VITAE**

Revised: 09/28/2022

1. Name: Anna Woodbury, MD, MSCR, C. Ac
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3. E-mail Address: anna.woodbury@emory.edu; anna.woodbury@va.gov
4. Current Titles and Affiliations:
 - a. Academic Appointments:
 - i. Primary Appointments:
 - i. Associate Professor of Anesthesiology, Division of Pain Medicine, Emory University School of Medicine, 2020 – present
 - b. Clinical Appointments:
 - ii. Staff Physician, Atlanta Veterans Affairs Healthcare System, Division of Pain Medicine, Department of Anesthesiology, Emory University School of Medicine, 2014-present
 - c. Other Administrative Appointments:
 - iii. Co-Director, Faculty Development in Research Series, Division of Pain Medicine, Department of Anesthesiology, Emory University School of Medicine, 2016-present
 - iv. Director of Operations, Center for Visual and Neurocognitive Rehabilitation, Atlanta VAHCS, 2022-
 - v. Associate Vice Chair of Research, Department of Anesthesiology, Emory University School of Medicine, 2022-
5. Previous Academic and Professional Appointments:
 - i. Instructor, Department of Anesthesiology, Emory University School of Medicine, 2012-2013
 - ii. Assistant Professor of Anesthesiology, Division of Pain Medicine, Emory University School of Medicine, 2014 – 2020
6. Previous Administrative and/or Clinical Appointments:
 - i. Founding Chief, Division of Pain Medicine, Department of Anesthesiology, Atlanta VA Medical Center, 2014-2016
 - ii. Associate Program Director, Multidisciplinary Pain Fellowship, Emory University School of Medicine, 2015 – 2022
 - iii. Site Director, Multidisciplinary Pain Medicine Fellowship, VA Rotation, Veterans Affairs Medical Center, 2015-2018
 - iv. Site Director, Palliative Care Fellowship, VA Pain Rotation, Veterans Affairs Medical Center, 2015-2020

7. Licensures: Georgia, Issued 2012

8. Boards and Specialty Boards:

- American Board of Anesthesiology 2013-2023
- Pain Medicine Subspecialty Certification 2014-2024

9. Education:

- B.A., Biochemistry, Magna Cum Laude, Rice University, 2001-2004
- M.D., Washington University in St. Louis 2004-2008
- Master of Science in Clinical Research, Emory University, 2017-2020

10. Postgraduate Training:

Internship, Internal Medicine, University of Texas Health Science Center, San Antonio, Texas Supervisor: George Crawford, MD
2008-2009

Residency, Anesthesiology, Emory University Affiliated Hospitals, Atlanta, Georgia Supervisor: Thomas Philpot, MD
2009-2012

Clinical Fellowship, Pain Management, Emory University Affiliated Hospitals, Atlanta, Georgia Supervisor: Anne Marie McKenzie-Brown, MD
2013 - 2014

11. Continuing Professional Development Activities:

- i. School of Medicine Junior Faculty Development Course, 2015
- ii. Grant Training Center Course, 2016
- iii. National Research Mentoring Network (NRMN) Professional Development Course, 2018
- iv. Non-invasive Brain Stimulation TMS Course for Certification, MUSC, 2021
- v. Training in Grantsmanship for Rehabilitation Research (TIGRR), MUSC, 2022

12. Committee Memberships:

a. National and International:

- i. Sub-Committee on History and Education, American Society of Anesthesiologists, 2011-2012
- ii. Committee on Pain Medicine, American Society of Anesthesiologists, 2013-2015
- iii. Committee on Pain Medicine, American Society of Anesthesiologists, 2017-2019
- iv. Abstract Review Sub-Committee on Chronic and Cancer Pain, American Society of Anesthesiologists, 2013-2014
- v. Abstract Review Sub-Committee on Chronic and Cancer Pain, American Society of Anesthesiologists, 2015-present
- vi. Annual Meeting Planning Committee, American Society of Regional Anesthesiology, 2018-2020 (for 2020 meeting)
- vii. Committee on Research, American Society of Anesthesiologists, 2021 – 2023

- viii. Educational Track Subcommittee on Pain Medicine, American Society of Anesthesiologists, 2021-2023
- ix. **Vice Chair**, Functional Medicine for Anesthesiologists and Pain Practitioners Special Interest Group (SIG), American Society of Regional Anesthesiology, 2022-2024

b. Institutional:

- i. Emory Anesthesiology Resident Recruitment Committee, 2011-2012
- ii. Emory Education Sub-Committee, (Internal Review of Gen Surgery), 2011-2012
- iii. Graduate Medical Education Committee, Elected Representative, 2011-2012
- iv. Committee on Pain Medicine, Veterans Affairs Medical Center, Atlanta, GA 2014-2016
- v. Resident Education Committee, Anesthesiology, Emory University School of Medicine, 2015-2018
- vi. Environment of Safety Committee, Veterans Affairs Medical Center, Atlanta, GA 2015-present
- vii. Emory University Institutional Review Board (IRB), VA appointed member, Emory University & Atlanta VA, Atlanta, GA, 2021-2024
- viii. Faculty Committee on Appointments & Promotions, Department of Anesthesiology, Emory University, Atlanta, GA, 2021 -
- ix. Pain Division Chief Search and Interview Committee, Department of Anesthesiology, Emory University, Atlanta, GA, July-September, 2022

13. Peer Review Activities:

a. Grants:

i. National and International:

- 1) RRD2 Rehabilitation Research and Development Review, Veterans Affairs Merit Review Panel, Washington, D.C., Meeting: August 8-9, 2019. Scientific Program Manager: Timothy Brindle, PT, PhD.
- 2) Center for Scientific Review Special Emphasis Panel ZRG1 IFCN-B 02 M, Pain, Perception and Learning: November 20-21, 2019, National Institutes of Health, Bethesda, MD. Chairperson: Theodore R Cummins. Scientific Review Officer: John Bishop, PhD.
- 3) Center for Scientific Review Special Emphasis Panel ZRG1 IFCN-B 02 M, Pain, Perception and Learning: July 15, 2020, National Institutes of Health, Bethesda, MD. Chairperson: Theodore R Cummins. Scientific Review Officer: John Bishop, PhD.
- 4) NIH Special Emphasis Panel ZNS1 SRB-A(38) to review EPPIC-Net Specialized Centers grant applications submitted to **OTA-NS-19-008** and **OTA-20-002**: September 2, 2020 via Zoom. National Institute of Neurological Disorders and Stroke, NIH Neuroscience Center Scientific Review Branch, Rockville, MD. Scientific Review Officer: Ana Olariu.
- 5) RR&D Fall 2020 Small Projects in Rehabilitation Research (SPiRE) Spinal Cord Injury/Disorders and Neuropathic Pain Review Panel, Veterans Affairs Mail-in Review: October 22, 2020. Scientific Program Manager: Audrey Kusiak, PhD.
- 6) NIH Special Emphasis Panel ZNS1 SRB-A(41) to review EPPIC-Net Specialized Centers grant applications submitted to **OTA-NS-19-008** and **OTA-20-002**: December 15, 2020 via

Zoom. National Institute of Neurological Disorders and Stroke, NIH Neuroscience Center Scientific Review Branch, Rockville, MD. Scientific Review Officer: Ana Olariu.

- 7) NIH Special Emphasis Panel ZNS1 SRB-A(46) to review EPPIC-Net preliminary applications for **OTA-21-005**: Mail-in Review: June 16, 2021. National Institute of Neurological Disorders and Stroke, NIH Neuroscience Center Scientific Review Branch, Rockville, MD. Scientific Review Officer: Ana Olariu.
- 8) NIH Special Emphasis Panel ZNS1 SRB-A(47) to review EPPIC-Net preliminary applications for **OTA-21-005**: Mail-in Review: August 2, 2021. National Institute of Neurological Disorders and Stroke, NIH Neuroscience Center Scientific Review Branch, Rockville, MD. Scientific Review Officer: Ana Olariu.
- 9) RR&D Fall 2021 Small Projects in Rehabilitation Research (SPiRE) Spinal Cord Injury/Disorders and Neuropathic Pain Review Panel, Veterans Affairs Mail-in Review: October 22, 2021. Scientific Program Manager: Audrey Kusiak, PhD.
- 10) NIH Special Emphasis Panel/Scientific Review Group for **PAR-21-083** NIAID Clinical Trial Implementation Cooperative Agreement (U01 Clinical Trial Required) Review Committee and **PAR-20-270** NIAID Clinical Trial Planning Grant (R34 Clinical Trial Not Allowed) Review Committee **ZAI1-AM-1(M1)**: March 4, 2022 via Zoom. National Institute of Allergy and Infectious Diseases. Scientific Review Officer: Anuja Mathew, PhD.
- 11) Foundation for Anesthesia and Education and Research (**FAER**) Grant Review for Mentored Research Training Grants (**MRTG**) and Research in Education Grants (**REG**): April 30, 2022 via Zoom. ASA Research Committee. Scientific Review Officer: Dr. Y.S. Prakash, MD, PhD.
- 12) NIH HEAL Initiative: Discovery of Biomarkers and Biomarker Signatures to Facilitate Clinical Trials for Pain Therapeutics (UG3/UH3 Clinical Trial Optional) **RFA-NS-22-050**: June 21, 2022 via Zoom. National Institute of Neurological Disorders and Stroke. Scientific Review Officer: Abhi Subedi, PhD.
- 13) Diversity, Equity, and Inclusion Program Review **2022/10 ZRD1 DEIR-N (01)**: September 12, 2022. Mail-in Review. VA Office of Research and Development. Scientific Review Officer: Carol Fowler, PhD.
- 14) NIH HEAL Biomarker (UG3/UH3) for **RFA-NS-22-050** panel identifier **ZNS1 SRB-R (07) R**: September 22, 2022 via Zoom. National Institute of Neurological Disorders and Stroke. Scientific Review Officer: Abhi Subedi, PhD.

ii. Institutional:

- 1) Center for Visual and Neurocognitive Rehabilitation, Internal Reviewer for Career Development and Merit Awards, Atlanta VAHCS, 2016-present.
- 2) Georgia CTSA KL2-K12 BIRCWH Application Review: May 7, 2021 via Zoom. Emory University, Atlanta, GA. Program Directors: Henry Blumberg & Igho Ofotokun.
- 3) Schmitt Program in Integrative Neuroscience (SPIN) \$50,000 pilot award reviewer, The University of Rochester Del Monte Institute for Neuroscience, Rochester, NY, June 10, 2021

4) Georgia TL1 Post-Doctoral Application Review: May 10, 2022 via Zoom. Emory University, Atlanta, GA. Program Directors: Henry Blumberg & Thomas Ziegler.

b. Manuscripts:

- i. Journal of Clinical Microbiology, 2010-present
- ii. Anesthesiology, 2012-present
- iii. Frontiers in Neuroscience, 2013-present
- iv. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015-present
- v. Pain Medicine, 2015-present
- vi. BMJ Open, 2016-present
- vii. F1000Research, 2016-present
- viii. Journal of Palliative Care, 2017-present
- ix. Journal of Pain Research, 2020-present
- x. AMA Journal of Ethics, 2021-present
- xi. Open Access Rheumatology: Research and Reviews, 2022-present

c. Conference Abstracts:

i. National and International:

- a) American Society of Anesthesiologists, Annual National Meeting, Sub-Committee on Chronic and Cancer Pain, Abstract Reviewer, 2013-2016
- b) American Society of Anesthesiologists, Annual National Meeting, Sub-Committee on Chronic and Cancer Pain, Abstract Reviewer, 2019-2021

14. Consultantships/Advisory Boards:

Physician Consultant, Professional Disability Associates, 2016-2019
Expert Witness, Serious Injury Law Group, 2021-2022

15. Editorships and Editorial Boards:

- I. Editorial Board, *International Journal of Anesthesiology and Pain Medicine*, 2015-present
- II. Review Editor (Editorial Board): "Non-Pharmacological Treatment of Pain" specialty section of *Frontiers in Pain Research*, 2022
- III. Topic Editor: "Non-invasive Vagal Nerve Stimulation for Chronic Pain," *Frontiers in Pain Research*, 2022
- IV. Topic Editor: "Biobehavioral Interventions for Chronic Pain Management and Prevention," *Frontiers in Pain Research*, 2022
- V. Review Editor (Editorial Board): "Neuromodulatory Interventions," *Frontiers in Pain Research*, 2022

16. Honors and Awards:

- i. 1st Place Basic Science Research, Gulf Atlantic Anesthesia Resident Research Conference, San Juan, Puerto Rico, 2012
- ii. Ahmet Sezgen Award, Department of Anesthesiology, Emory University, 2012
- iii. Gertie Marx Research and Education Award, Foundation for Anesthesia Education and Research, 2012
- iv. Crawford Long Research Award, Department of Anesthesiology, Emory University, 2013
- v. Emory School of Medicine Researcher Appreciation Day Recognition recognized by

colleagues for “groundbreaking research and pursuit of innovative ideas”:

<http://2016emoryrad.strikingly.com/>, 2016

- vi. Inaugural Jerry H. Levy Research Award, “Keeping the FUN in Science,” Department of Anesthesiology, Emory University, \$2,000, 2017
- vii. 2nd Place Poster Abstract, Georgia Society of Anesthesiologists Winter Forum, Atlanta, GA, 2018
- viii. Albert E. Levy Junior Faculty Award for Scientific Research, University Research Committee, Emory University, \$5,000, 2019
- ix. American Society of Anesthesiologists Mentoring Program Award, \$2,100, 2019 (mentee: Melat Gebre)
- x. Recognition for Excellence in Medical Care, 90th percentile or higher Press Ganey patient satisfaction scores at the Atlanta VA, Emory School of Medicine Awards Ceremony, 2019
- xi. 1st Place Paper Poster in “Peripheral Nerve Stimulation,” North American Neuromodulation Society, Las Vegas, NV, 2020
- xii. American Society of Anesthesiologists Mentoring Program Award, \$2,100, 2020 (mentee: Mercy Udoji)
- xiii. 2020 Emory School of Medicine Researcher Appreciation Day Recognition
- xiv. Recognition for Excellence in Medical Care, 90th percentile or higher Press Ganey patient satisfaction scores at the Atlanta VA, Emory School of Medicine Awards Ceremony, 2020
- xv. Recognition for Excellence in Medical Care, 90th percentile or higher Press Ganey patient satisfaction scores at the Atlanta VA, Emory School of Medicine Awards Ceremony, 2021
- xvi. Emory School of Medicine Mentoring Award, 2021
- xvii. Emory School of Medicine Researcher Appreciation Day Recognition, 2021
- xviii. Active Member, Association of University Anesthesiologists (AUA), International Anesthesia Research Society (IARS), 2022-present (nominated and elected)
- xix. Emory School of Medicine Researcher Appreciation Day Recognition, 2022

17. Society Memberships:

- i. American Society of Anesthesiology, 2009 - present
- ii. Georgia Society of Anesthesiology, 2009 – present
- iii. American Society of Regional Anesthesia and Pain Medicine, 2010 –2012, 2020 – present
- iv. Society for Neuroscience in Anesthesiology and Critical Care, 2014 - 2015
- v. International Association for the Study of Pain, 2016 – present
- vi. Georgia Society of Interventional Pain Physicians, 2017 – present
- vii. American Medical Association, 2018-2019
- viii. US Association for the Study of pain, 2020 – present
- ix. Clinical TMS Society, 2022- present

18. Clinical Service Contributions:

- Created inpatient and outpatient consult services for Anesthesiology Pain Division at Atlanta VAMC, 2014 as the founding chief.
- Founded, established and organized pain division at Atlanta VAMC, including establishment of new outpatient and procedural clinics at CBOCs (250 N. Arcadia & Fort McPherson), with recruitment and hiring of 3 specialty pain physicians, 2 mid-level practitioners, and 2 nurses, 2014-2016.
- Clinical note template development for pain clinic, 2014.
- Implemented pain fellow education inclusive of VA medical center as part of curriculum, with establishment of a 6th pain fellow in the Emory fellowship program, 2016.

19. Community Outreach:

a. General:

- x. DeKalb City Board of Health, MRC Unit #68, volunteer physician for disaster relief, 2012 present.
- xi. The GLOBE Academy, Development Committee, Board Level Volunteer, 2018- 2021.
- xii. Rice Alumni Volunteers Association, Interviewer, 2022 – present (5-10 hours/year).

b. Media Appearances:

- xiii. Fox 5 News, Good Morning Atlanta – “[After years of pain, Navy veteran finds relief - Story | WAGA](#)” feature on spinal cord stimulation for pain relief and opioid reduction April 27, 2016
- xiv. Interview with Olga Khazan, *The Atlantic*, regarding new Opioid prescribing recommendations from FDA November 8, 2018
- xv. Interview with Marie Benz, PainRelief.com, regarding recent research results. <https://painrelief.com/fibromyalgia/stimulation-of-nerves-in-ear-may-provide-pain-relief-for-fibromyalgia-patients/> November 16, 2020
- xvi. Interview with Jill Waldbieser from the United States Association for the Study of Pain, InVisible Project, “FROM ELECTRIC EELS TO WEARABLE DEVICES: HOW ELECTRICAL STIMULATION CAN HELP TREAT NEUROPATHIC PAIN” August 12, 2022

20. Formal Teaching:

a. Medical Student Teaching:

- 1. Medical Student Airway Workshops, 2011-2013, 4 hrs/yr
- 2. Discovery Phase Mentor, Emory University School of Medicine, 2017-present, 480 hrs/yr

b. Graduate Programs:

Residency Programs:

- 1) Group Project Mentor for residents interested in professionalism and pain medicine, group won 1st place in Crawford Long Research Seminar, 2012-2013, 8hrs/yr
- 2) Mock Oral Examiner, Residency Program, Department of Anesthesiology, Emory University, 2015, 4 hrs/yr
- 3) Quality Project Mentor, Resident Group Project, 2017-2018, 8 hrs/yr
- 4) Resident Review Lecture, *CNS and PNS for ABA Basic Exam*, Department of Anesthesiology, Emory University, May 8, 2018, 1 hr/yr
- 5) Mock Oral Examiner, Residency Program, Department of Anesthesiology, Emory University, 2019-2020, 4 hrs/yr

Fellowship Programs:

- 1) Lecturer, Pain Fellowship Core Lecture Series, Emory University, 2012 – present, 3- 4 hrs/yr

- a. "The Science of Acupuncture" 1 hr/yr
- b. "Epidural Steroid Injections, Do We Really Need the Steroid?" 1 hr/yr
- c. "The Power of Strengths" 1 hr/yr
- d. "Approach to the Patient with Fibromyalgia" 1 hr/yr
- 2) Preceptor, Palliative Care Fellowship Pain Rotation, 2014-present, 64 hrs/yr
- 3) Lecturer, Palliative Care Pain Rotation, Atlanta VAHCS & Emory University, 2021-present, 3 hrs/yr
 - e. "Complementary & Integrative Therapies for Pain" 1 hr/yr
 - f. "Post-surgical/chemo/radiation Pain Management" 1 hr/yr
- 4) Journal Club for Fellows, 2014-present, 2 hrs/yr
- 5) Morning Reading Review (Benzon), Multidisciplinary Pain Medicine Fellowship, Emory University, 2014-present, 2hrs/yr

21. Supervisory Teaching:

a. Faculty

1. Arash Harzand, 2020-2023 (VA region 7 career development awardee), Assistant Professor, Department of Cardiology, Emory University SOM, VA, 1 grant award
2. Mercy Udoji, 2021-present (ASA Mentoring Award), Associate Professor, Department of Anesthesiology, Emory University SOM, VA, 1 grant award
3. Kenneth Ike, 2022-2024 (EMCF award), Assistant Professor, Department of Anesthesiology & Pain Medicine, Emory University SOM, Grady, 1 grant award

b. Postdoctoral Fellows Directly Supervised:

1. Melat Gebre, MD, 2016-2017 (Discovery Phase) followed by 2017-2022 (Anesthesiology Resident; Clinical Research Scientist Track), Emory University SOM, matched to UCSD for pain fellowship. Anesthesiology residency; 5 presented abstracts, 3 publications, 1 research award, 1 grant award
2. Corinne Bicknese, MD, 2017-2018 (Discovery Phase), Emory University SOM, matched to Emory Anesthesiology residency. 1 presented abstract, 1 publication, 1 grant award
3. Evelina Sterina, 2018-2020 (M2 Research Rotation +), Emory University SOM
4. Megan Foster, 2019-2020 (Discovery Phase), Emory University SOM, matched to MCG Emory Anesthesiology residency.
5. Kari Tyler, MD, 2021-2022 (Discovery Phase), Emory University SOM, matched to University of Chicago for Internal Medicine residency. 1 presented abstract.
6. Benjamin Rapsas, MD, 2022-2023 (Discovery Phase), Emory University SOM
7. Joseph Roberts, PhD, 2022-2024 (Career Development Awardee – 1), Postdoctoral Fellow, Department of Orthopedics, Emory University SOM, 1 grant award.

c. Residency & Fellowship Program:

1. Jerry Kalangara, MD, 2014-2015 (Pain Fellow Mentee), Assistant Professor of Anesthesiology & Pain Medicine, Emory SOM, Division Chief for Pain, Atlanta VA Medical Center; 6 accepted abstracts, 1 publication, 1 book
2. Lisa Guo Foster, MD, 2015-2016 (Pain Fellow Mentee), Associate Professor of Physical Medicine & Rehabilitation, Emory SOM

3. Lynn Fraser, MD, 2015-2016 (Clinical Scientist Track), Private Practice Pain Physician, North Carolina; 1 publication
4. Gary Kao, MD, 2016-2017 (Clinical Scientist Track), Private Practice Pain Physician, Tricity Pain Associates; 1 publication
5. Raheleh Rahimi Darabad, MD, 2016-2017 (Pain Fellow Mentee), Assistant Professor of Pain & Anesthesiology, University of Illinois School of Medicine; 2 presented abstracts, 1 publication
6. Salman Hemani, MD, 2016-2020 (Clinical Scientist Track, Pain Fellow Mentee), Assistant Professor of Pain & Anesthesiology, Emory University SOM; 3 presented abstracts, FAER research award, 1 first place poster, 1 publication.
7. Rosalie Yan, MD, 2020-2021 (Pain Fellow Mentee), Assistant Professor of Anesthesiology, Emory SOM, Grady Memorial Hospital; 1 presented abstract.
8. Sunil Agarwal, MD, 2022-2023 (Pain Fellow Mentee; TL-1 awardee), Emory SOM; 1 publication, 1 training grant award

d. Other:

1. Alyssa Espinera, MD, 2012-2013 (Undergraduate Research), Emergency Medicine and Critical Care Fellowship, Louisiana State University/Ochsner
2. David Kim, MD, 2016-2017 (ASA Newsletter), Anesthesiology Resident, Harvard Medical School
3. Delaney Detamore, 2018-2020 (Undergraduate Research), Georgia State University
4. Trozalla Smith, 2021-present (Undergraduate Research), Emory University; 1 presented abstract; 1 Summer DEI Research Award
5. Chiamaka Ohanu, MBA, 2021-present (Medical School Research), Morehouse SOM; 1 presented abstract
6. Alyssa Presley, 2022 (FAER Medical Student Anesthesia Research Fellowship), Morehouse SOM; 1 grant award

22. Lectureships, Seminar Invitations, and Visiting Professorships:

a. National and International:

1. Dolor y Paliativos, Visiting Professor, Invited Speaker
 - i. *"TENS, PENS, and SCS"*
 - ii. *"Epidural Steroid Injections, Do We Really Need the Steroid?"*

Coordinator: Antonio Tamayo, Mexico City, Mexico, June 9, 2017

2. *"TENS, PENS, and SCS – Advances in Neuromodulation,"* Invited Speaker, Pain Fellowship Advanced Techniques, University of Colorado, February 2, 2021 (virtual; invited by Tushar Sharma)
3. *"Have you Heard About Ear Stimulation for Pain?"* Visiting Professor/ Invited Speaker, Anesthesiology Grand Rounds, Columbia University Medical Center, March 31, 2022 (invited by Paul Garcia)
4. *"Approach to the Patient with Fibromyalgia,"* Invited Speaker, Pain Fellowship Lecture Series, Oklahoma University College of Medicine, May 12, 2022 (virtual; invited by Eldhose Abrahams).
5. *"Topical Session 22: COMPLEX PAIN SYNDROMES – WHAT IS NEW? Fibromyalgia,"* Invited Speaker, XI. World Congress of World Institute of Pain, Budapest, Hungary, August 27, 2022 (virtual; invited by Peter Staats)

b. Regional:

Percutaneous electrical nerve stimulation, an alternative treatment for pain. VISN 7 Third Annual Research Symposium, Birmingham, Alabama, November 14, 2019

c. Institutional:

1. *The Science of Acupuncture: Mechanisms*, Emory University Hospital, Anesthesiology Grand Rounds, November 5, 2013
2. *Peri-operative Acupuncture in Neurosurgery*, Emory University Hospital, Neurosurgery Grand Rounds, August 21, 2014
3. *Acupuncture in Psychiatry*, Atlanta VA Medical Center, Department of Psychiatry Lecture Series, September 14, 2015
4. *Hypnosis and Pain Management*, Emory University School of Medicine, Physical Medicine & Rehabilitation Core Lecture Series, Emory University, November 30, 2015
5. *"Tens, Pens and SCS,"* Lecture Series, Geriatrics, Wesley Woods, March 2017
6. *The Science of Acupuncture: Mechanisms and Application to Peri-Operative and Chronic Pain Management*, Emory University Hospital, Anesthesiology Grand Rounds, February 21, 2019
7. *"The Science of Acupuncture: Mechanisms,"* Undergraduate Lecture Series for HLTH 385 Integrative Medicine Course, Emory University, March 5, 2019
8. *Percutaneous electric neural field stimulation of the auricle for fibromyalgia: A feasibility study*, Emory University Winship, Integrative Medicine Program Meeting, March 28, 2019
9. *Percutaneous electrical neural field stimulation in veterans with fibromyalgia: neuroimaging as a biomarker*, Emory University Department of Physiology, Seminar in Integrative Neuroscience, April 3, 2019
10. *Percutaneous electric neural field stimulation of the auricle for fibromyalgia: A feasibility study*, Atlanta VA Research Meeting, Invited Presentation, August 27, 2019
11. *"The Science of Acupuncture: Mechanisms,"* Undergraduate Lecture Series for HLTH 385 Integrative Medicine Course, Emory University, March 19, 2020 (virtual)
12. *"rTMS for Gulf War Syndrome Headaches and Co-morbid Symptoms,"* Center for Visual and Neurocognitive Rehabilitation Seminar Series, Atlanta VA, Invited Presentation, August 19, 2020.
13. *"The Science of Acupuncture: Mechanisms,"* Undergraduate Lecture Series for HLTH 385 Integrative Medicine Course, Emory University, October 6, 2020 (virtual)
14. *"Path to a Research Career,"* lecture to categorical interns, Emory University, Invited Presentation, December 11, 2020.
15. *"TENS, PENS, and SCS – Advances in Neuromodulation,"* Tele-Primary Care Seminar Series, Atlanta VAHCS, September 9, 2021 (virtual)

23. Invitations to National/International, Regional, and Institutional Conferences:

a. National and International:

- xvii. *"Acupuncture, Supplements and Regional Anesthesia – Shall We Postpone the Block?"* ASA 2015 Conference, Panel on Coagulation Disorders and Regional Anesthesia, San Diego, California, October 2015
- xviii. Point-Counterpoint on Epidural Steroid Injections *"Do We Really Need the Steroid?"*

- xix. *Pro-Steroid*, ASA 2015 Conference, San Diego, California, October 2015
- xx. Panel on Intrathecal Pumps, *"Intrathecal Pumps for Non-Malignant Pain"*, ASA 2016 Conference, Chicago, IL, October 2016
- xxi. Panel on Peri-Operative Care of the Difficult Pain Patient Undergoing Routine Surgery *"History of Abuse, on Herbal Medications, Undergoing ORIF"*, ASA 2016 Conference, Chicago, IL, October 2016
- xxii. Panel on "An Alternative View in Chronic Pain Treatments: Diet, Exercise, Complementary Medicine, and Beyond" speaker for *"Dietary Supplements, Complementary and Alternative Medicine Treatments: Science and Myths"*, ASRA 2020 Conference, Las Vegas, NV, November 21, 2020 (virtual).
- xxiii. Panel on *"Alternative/Complementary Medicine, Nutrition/Wellness, and Acupuncture"*, Moderator, ASRA 2020 Conference, Las Vegas, NV, November 22, 2020 (virtual).
- xxiv. *"CAM for the practicing anesthesiologist and pain practitioner"*, New Horizons: Concepts in Anesthesiology, Steamboat Springs, CO, February 8, 2022
- xxv. *"Peri-operative Acupuncture: Practical Applications"*, New Horizons: Concepts in Anesthesiology, Steamboat Springs, CO, February 10, 2022
- xxvi. *"The Science of Acupuncture: Understanding Mechanisms"*, New Horizons: Concepts in Anesthesiology, Steamboat Springs, CO, February 10, 2022
- xxvii. *"Multimodal Analgesia and Opioid-Sparing Techniques in the Peri-Operative Setting"*, New Horizons: Concepts in Anesthesiology, Steamboat Springs, CO, February 11, 2022

24. Abstract Presentations at National/International, Regional, and Institutional Conferences:

a. National and International:

- i. ***Woodbury A**, Maddi M, Fidler J, Fritz-French C, Garcia PS. "An Optimal Thrombin Concentration Preserves Dendritic Branching in Cortical Neuron Cultures." *ASA Abstracts*. October 18, 2011. A1298. (poster)
- ii. ***Woodbury A**, Maddi M, Fidler J, Fritz-French C, Garcia PS. "Optimizing Thrombin Concentrations for Neuroprotection." San Juan, Puerto Rico, 1st place - *Gulf Atlantic Anesthesia Resident Research Conference*. March 2012. (oral)
- iii. ***Woodbury A**, Choi KE, Garcia P, Yu SP, Wei L. "Neonatal Pain and Neuro-Psychiatric Disorders: Honokiol for Prevention and Treatment." *ASA Abstracts*. Chicago, IL. October 16, 2012. A241. (poster)
- iv. ***Woodbury A**, Choi KE, Garcia P, Yu SP, Wei L. "Neonatal Pain and Neuro-Psychiatric Disorders: Honokiol for Prevention and Treatment." *American Academy of Pain Medicine Annual Meeting*. Ft Lauderdale, FL. April 2013. Poster # 137. (poster)
- v. **Woodbury A**, Choi KE, Garcia P, Yu SP, Wei L. "Honokiol for Neuroprotection in the Developing Brain" *BRAIN 2013 Conference*. Shanghai, China. May 2013 (poster)
- vi. ***Woodbury A**, Yu SP, Wei L. "Auricular Acupuncture Leads to Recovery following Intra- Operative Stroke." *SNACC Abstracts*. New Orleans, LA. October 10, 2014. (poster)
- vii. ***Darabad R**, Kalangara J, **Woodbury A**. "Cancer-Related Facial Pain Treated with Stellate Ganglion Block: A Report of Three Clinical Cases" *American Academy of Pain Medicine Annual Meeting*. Nashville, TN. April 2017. Poster # 116. (poster)
- viii. ***Darabad R**, Kalangara J, **Woodbury A**. "Cancer-Related Facial Pain Treated with

- Stellate Ganglion Block: A Report of Three Clinical Cases” *American Society of Regional Anesthesia and Pain Medicine Annual Meeting*. Orlando, FL. November 2017. Ab 4002. (poster)
- ix. *Gebre M, **Woodbury A**, Krishnamurthy V, Kalangara J, Krishnamurthy LC, Napadow V, Sniecinski R, Crosson B. "Feasibility Study: fMRI Evaluation of Auricular Percutaneous Electrical Neural Field Stimulation for Fibromyalgia," *American Society of Regional Anesthesiology Annual Meeting*. New York City, NY. April 2018. #4929 (poster)
 - x. ***Woodbury A**, Gebre M, Krishnamurthy V, Kalangara J, Krishnamurthy LC, Napadow V, Sniecinski R, Crosson B. "Feasibility Study: fMRI Evaluation of Auricular PENFS for Fibromyalgia in Veterans" *World Congress on Pain. International Association for the Study of Pain*. Boston, MA. September 2018. #463249 (poster)
 - xi. *Hemani S, Goorah D, **Woodbury A**. "A Retrospective Analysis Comparing Two Types of Cervical Spine Epidural Steroid Injection." *American Society of Anesthesiology Annual Meeting*. San Francisco, CA. FAER Resident Scholar presentation. October 2018. (poster)
 - xii. *Gebre M, **Woodbury A**, Krishnamurthy V, Kalangara J, Krishnamurthy LC, Napadow V, Sniecinski R, Crosson B. "Feasibility Study: fMRI Evaluation of Auricular PENFS for Fibromyalgia in Veterans." *American Society of Regional Anesthesiology and Pain Management Annual Meeting*. San Antonio, TX. November 2018. #6089 (oral presentation)
 - xiii. *Hemani S, Goorah D, **Woodbury A**. "A Retrospective Analysis Comparing Two Types of Cervical Spine Epidural Steroid Injection." *American Society of Regional Anesthesiology and Pain Management Annual Meeting*. San Antonio, TX. November 2018. #5928 (poster)
 - xiv. Bicknese C, ***Woodbury A**, Gebre M, Krishnamurthy V, Kalangara J, Krishnamurthy LC, Napadow V, Sniecinski R, Crosson B. "Feasibility Study: fMRI Evaluation of Auricular PENFS for Fibromyalgia in Veterans." *American Academy of Pain Medicine Annual Meeting*. Denver, CO. March 2019. (poster)
 - xv. *Hemani S, **Woodbury A**, et al. "Feasibility Study: fMRI Evaluation of Auricular PENFS for Fibromyalgia in Veterans." *North American Neuromodulation Society Annual Meeting*. Las Vegas, NV. January 2020. (poster, 1st place in "Peripheral Nerve Stimulation")
 - xvi. *Gebre M, Lynde G, **Woodbury A**. "Retrospective Analysis Investigating Intraoperative Opioid Administration and Anesthetic Recovery with a Focus on Identifying Risk and Protective Factors." *American Society of Anesthesiology Annual Meeting*. Washington D.C. (virtual) October 2020. (poster & oral presentation)
 - xvii. *Gebre M, Krishnamurthy L, Smith J, Bohsali A, Allen J, Crosson B, Napadow V, **Woodbury A**. "Alterations in Gray Matter Volume and GABA in Veterans with Fibromyalgia Treated with Percutaneous Electrical Nerve Field Stimulation (PENFS)." *United States Association for the Study of Pain*. Virtual Meeting. December, 2020. (poster & oral presentation)
 - xviii. *Mehka A, Ji D, **Woodbury A**. "Evolving Understanding of Fibromyalgia After Surgery." *United States Association for the Study of Pain*. Virtual Meeting. December, 2020. (poster)
 - xix. *Gebre M, Boorman DW, Jones A, Lynde G, **Woodbury A**. "Retrospective Analysis Investigating Intraoperative Opioid Administration and Anesthetic Recovery with a Focus on Identifying Risk and Protective Factors." *International Anesthesia Research Society (IARS) Annual Meeting*. Honolulu, HI (virtual). March, 2022. (poster)
 - xx. *Gebre M, Boorman DW, Jones A, Lynde G, **Woodbury A**. "Retrospective Analysis Investigating Intraoperative Opioid Administration and Anesthetic Recovery with a Focus on Identifying Risk and Protective Factors." *Association of University Anesthesiologists (AUA) Annual Meeting*. Honolulu, HI (virtual). March, 2022. (oral presentation)

b. Regional:

- i. *Gebre M, **Woodbury A**, Napadow V, et al. "*Feasibility Study: fMRI Evaluation of Auricular Percutaneous Electrical Neural Field Stimulation for Fibromyalgia*" *Georgia Society of Anesthesiologists Winter Forum*. February 2018. (poster, 2nd place)
- ii. *Tyler, K, Krishnamurthy L, Bohsali A, Crosson B, Gebre M, Krishnamurthy V, Vernon M, **Woodbury A**. "Cortical thickness changes in veterans with fibromyalgia following treatment with percutaneous stimulation of the auricle." Southeast Regional Clinical & Translational Science Conference. Georgia CTSA. March 2022. (poster)
- iii. *Ohanu C, Denmon C, Stevens J, Wakeman D, Sclocco R, Krishnamurthy V, Napadow V, **Woodbury A**. "Vagal Nucleus Connectivity Predicts Percutaneous Electrical Nerve Field Stimulation Treatment Response in Veterans with Fibromyalgia." VA Research Day Celebration. May 2022. (poster, 2nd place in "Clinical/Translational")

c. Institutional:

- i. ***Woodbury A**, Choi KE, Garcia P, Yu SP, Wei L. "Honokiol for Neuroprotection in the Developing Brain" Crawford Long Research Conference. Department of Anesthesiology, Emory SOM. March 2012. (poster)
- ii. *Avila-Calles JA, Cardi-Scheible M...**Woodbury A**. "Opioids and Pain in Georgia" Crawford Long Research Conference. Department of Anesthesiology, Emory SOM. March 2013. (poster)
- iii. *Smith T...**Woodbury A**. "The Treatment of Fibromyalgia with Cranial Electrotherapy Stimulation." Emory Undergraduate Research Symposium, Emory University. April 2022. (poster)

25. Research Focus:

I am interested in non-invasive neuromodulation techniques to reduce dependence on pharmacotherapy for pain. My current federal funding includes cranial electrical stimulation for fibromyalgia in veterans using neuroimaging as a biomarker, and repetitive transcranial magnetic stimulation (rTMS) for gulf war illness (GWI) and co-morbid symptoms. I have a special interest in dysautonomias and their treatment.

26. Grant Support:

c. Active Support:

i. Federally Funded:

- 1) P.I., Rehab Research & Development, Veterans Health Administration, Randomized Double-Blind Placebo-Controlled Trial: fMRI Assessment of Percutaneous Electrical Neural Field Stimulation for Fibromyalgia in Veterans, Career Development Award-2 #1 IK2 RX003227-01, ADC: \$307,898, 2019 – 2024
- 2) Site P.I., Department of Defense, Long Term Efficacy of Neuronavigation-Guided rTMS in Alleviating Headache and Pain in GWI, ADC: \$179,292, 2019-2023
- 3) Co-I., Clinical Sciences Research & Development, Veterans Affairs Healthcare System, rTMS in Alleviating Pain and Co-Morbid Symptoms in Gulf War Illness, Merit Award-1 #SPLD-013-18F, ADC: \$394,278, 2019 – 2025
- 4) Co-I, Rehab Research & Development, Veterans Health Administration, One Treatment, Multiple Targets: Prism Adaptation and Left Brain Stroke

Rehabilitation, Small Projects in Rehabilitation (SPiRE), ADC: \$194,140, 06/01/20-05/31/22

- 5) Co-I, Rehab Research & Development, Veterans Health Administration, Non-Invasive Vagal Nerve Stimulation in Veterans with Mild Traumatic Brain Injury (mTBI), #1 I01 RX003418-01A1, ADC: \$300,000, 08/01/20-3/01/24
- 6) Co-I, VA CSP#2009 Sequential and Comparative Evaluation of Pain Treatment Effectiveness Response: The SCEPTER Trial, ADC (for site): \$95,544, 10/01/20 - 3/01/25
- 7) Co-I, VA CSR&D Merit, Transcutaneous Vagal Nerve Stimulation in Veterans with Posttraumatic Stress Disorder, # I01 CX002331, ADC: \$300,000 (\$1,200,000 total), 7/1/22-6/30/26
- 8) Collaborator, R21, Investigation of Nonconvulsive Electro-Therapy (NET) for chronic pain, GRANT13502160 for RFA W81XWH-21-CPMRP-CEA, 04/25/22-04/24/24

ii. Other:

- 1) P.I., Foundation for Anesthesia Education and Research (FAER), Medical Student Anesthesia Research Fellowship (MSARF) Host Institution, \$4,200, 2022.
- 2) Co-P.I., Center for Systems Imaging Core 35 MRI Application Pilot Project Award, \$10,800, 2021-2024.
- 3) Co-I, Emory Wounded Warriors Project, tDCS for pain and PTSD

d. Previous Support:

- 1) P.I., Foundation for Anesthesiology Education & Research, Honokiol for Treatment of Neonatal Pain & Neuroprotection, Research Fellowship Grant, \$75,000 2012-2013
- 2) P.I., Team Based Science Award, Erythropoietin for Post-Laminectomy Pain, Emory Department of Anesthesiology, \$20,000 2013-2014
- 3) P.I., Rehab Research & Development, Veterans Affairs Healthcare System, Feasibility Study: fMRI Evaluation of Auricular PENFS for Fibromyalgia (fMRI), Career Development Award-1 #F2113-M, 1 IK1 RX002113-01A2, ADC: \$234,966, 2017 –2019
- 4) P.I., Georgia Clinical and Translational Science Association (NIH), Effects of Intra-Operative Opioid Use on Patient Recovery Following Surgery, Healthcare Innovation Seed Award, #UL1TR002378, ADC: \$5,000, 2019-2020
- 5) Co-I., Center for Visual and Neurocognitive Research, Atlanta Veterans Affairs Healthcare System, Supplemental Funds, Award for Imaging Analysis, \$20,000, 2018-2019
- 6) Co-I, Emory Radiology Department, Prediction of response to phantom limb pain therapy by clinical and MRI endophenotyping, \$15,000, 2021-2022

27. Bibliography:

a. Published and Accepted Research Articles (clinical, basic science, other) in Refereed Journals:

1. Fagley RE, **Woodbury A**, Visuara A, Wall M. Rocuronium-induced coronary

vasospasm— “Kounis syndrome”. *International Journal of Cardiology*. Volume 137, Issue 2, October 2009, Pages e29-e32. PMID:18804883

2. **Woodbury A**, Jorgensen J, Owens A, Henao-Martinez A. Moraxella lacunata Septic Arthritis in a Patient with Lupus Nephritis. *Journal of Clinical Microbiology*. Volume 47, No. 11 November 2009, Pages 3787-3788. PMID:19794049 PMCID:PMC2772630
3. Kertai MD, Pal N, Palanca BJ, Lin N, Searleman SA, Zhang L, Burnside BA, Finkel KJ, Avidan MS; **B-Unaware Study Group**. Association of perioperative risk factors and cumulative duration of low bispectral index with intermediate-term mortality after cardiac surgery in the B-Unaware Trial. *Anesthesiology*. 2010 May;112(5):1116-27. PMID:20418692
4. **Woodbury A**, Helfman S. Anesthetic Management of Tracheo-Innominate Fistula in a Patient with Cerebral Palsy. *The Internet Journal of Anesthesiology*. ISSN: 1092-406X. February 2011, Pages 1-5.
5. Kertai MD, Palanca BJ, Pal N, Burnside BA, Zhang L, Sadiq F, Finkel KJ, Avidan MS; **B-Unaware Study Group**. Bispectral index monitoring, duration of bispectral index below 45, patient risk factors, and intermediate-term mortality after noncardiac surgery in the B-Unaware Trial. *Anesthesiology*. 2011 Mar;114(3):545-56. PMID:21293252
6. **Woodbury A**, Fry L, Margolias G, Knight K, Lynde G. A survey of anesthesiologist and anesthesiologist attitudes toward single use vials in an academic medical center. *Journal of Clinical Anesthesia*. 2014 Mar;26(2):125-30. PMID: 24561106
7. **Woodbury A**, McKenzie-Brown AM. Extradural Thoracic Spinal Lesion Presenting as Low Back and Leg Pain. *Pain Medicine*. 2015 May;16(5):1030-2. PMID:25546132
8. **Woodbury A**. Opioids for Nonmalignant Chronic Pain. *AMA Journal of Ethics*. March 2015, Volume 17, Number 3: 202-208. PMID:25813585
9. Garcia PS, Ciavatta VT, Fidler JA, **Woodbury A**, Levy JH, Tyor WR. Concentration-Dependent Dual Role of Thrombin in Protection of Cultured Rat Cortical Neurons. *Neurochemical Research*. 2015 Nov;40(11):2220-9. PMID:26342829 PMCID:PMC4644093
10. **Woodbury A**, Yu SP, Chen D, Gu X, Lee J, Zhang J, Espinera A, García PS, Wei L. Honokiol for the Treatment of Neonatal Pain and Prevention of Consequent Neurobehavioral Disorders. *Journal of Natural Products*. 05 Nov 2015, 78(11):2531-2536. PMID:26539813
11. **Woodbury A**, Sniecinski R. Garlic-Induced Surgical Bleeding: How Much Is Too Much? *Anesthesia & Analgesia Case Reports*. Dec 2015; 7(12):266-269. PMID:27782907
12. Fraser L, **Woodbury A**, Case report: Percutaneous electrical neural field stimulation in two cases of sympathetically-mediated pain. *F1000Research*. June 2017, 6:920. Epub. PMID: 29057068 PMCID: PMC5629543
13. Singh V, Song C, **Woodbury A**. The plight of protamine for heparin reversal in sensitized individuals. *Polish Annals of Medicine*. Volume 24, Issue 2, August 2017, Pages 264-267.
14. Gebre M, **Woodbury A**, Napadow V, Krishnamurthy G, Krishnamurthy L, Sniecinski R, Crosson B. Protocol for Feasibility Study: fMRI Evaluation of Auricular Percutaneous Electric Neural Field Stimulation for Fibromyalgia. *Journal of Medical Internet Research Protocols*. Feb 2018, 6;7(2): e39 PMID: 29410385 PMCID: PMC5820456
15. **Woodbury A**. A Longitudinal Approach to Stimulation at the C2-3 Medial Branches Over Lamina to Relieve Occipital Neuralgia: Case Report. *Neuromodulation: Technology at the Neural Interface*. July 2020. PMID: 32672841.
16. **Woodbury A**, Krishnamurthy V, Gebre M, Napadow V, Bicknese C, Liu M, Lukemire J, Kalangara J, Cui X, Guo Y, Sniecinski R, Crosson B. Feasibility of Auricular Field Stimulation in Fibromyalgia: Evaluation by Functional Magnetic Resonance Imaging, Randomized Trial. *Pain Medicine*. Nov 8 2020 :pnaa317. Epub ahead of print. PMID: 33164085.

17. Darabad RR, Kalangara JP, **Woodbury A**. Case Series: Cancer-Related Facial Pain Treated with Stellate Ganglion Block. *Palliat Med Rep*. 2020;1(1):290-295. eCollection 2020. PubMed PMID: 34223488; PubMed Central PMCID: PMC8241335.
18. Hemani S, Lane O, Agarwal S, Yu SP, **Woodbury A**. Systematic Review of Erythropoietin (EPO) for Neuroprotection in Human Studies. *Neurochem Res*. 2021 Apr;46(4):732-739. Epub 2021 Feb 1. Review. PubMed PMID: 33521906.
19. Bremner JD, Wittbrodt M, Gurel N, Shandhi M, Gazi A, Jiao Y, Levantsevych O, Huang M, Beckwith J, Herring I, Murrah N, Driggers E, Ko Y, Alkhalaf M, Soudan M, Shallenberger L, Hankus A, Nye J, Park J, **Woodbury A**, Mehta P, Rappaport M, Vaccarino V, Shah A, Pearce B, Inan O. Transcutaneous Cervical Vagal Nerve Stimulation in Patients with Posttraumatic Stress Disorder (PTSD): A Pilot Study of Effects on PTSD Symptoms and Interleukin-6 Response to Stress. *J Affect Disord Rep*. 2021 Dec;6:100190. doi: 10.1016/j.jadr.2021.100190. Epub 2021 Jul 10. PMID: 34778863; PMCID: PMC8580056.
20. Meka A, Ji D, **Woodbury A**. Evolving Understanding of the Classification of Fibromyalgia Following Surgery. *Pain Med*. 2022 Feb 1;23(2):424-426. doi: 10.1093/pm/pnab158. PMID: 33940634.
21. **Woodbury A**, Krishnamurthy L, Bohsali A, Krishnamurthy V, Smith J, Gebre M, Tyler K, Vernon M, Crosson B, Kalangara J, Napadow V, Allen JW, Harper D. Percutaneous Electric Nerve Field Stimulation Alters Cortical Thickness in a Pilot Study of Veterans with Fibromyalgia. *Neurobiology of Pain*. 2022 May 17;12:100093. doi: 10.1016/j.jynpai.2022.100093. PMID: 35733704; PMCID: PMC9207563.

b. Manuscripts Submitted: N/A

c. Review Articles:

1. **Woodbury A**, Wei L, Yu SP, Garcia P. Neuro-modulating effects of honokiol: a review. *Frontiers in Neurology*. 2013 Sep 11; 4: 130. PMID:24062717 PMCID:PMC3769637
2. **Woodbury A**, Soong S, Fishman D, Garcia P. Complementary and alternative medicine therapies for the anesthesiologist and pain practitioner: a narrative review. *Canadian Journal of Anesthesia*. 14 Oct 2015, 63(1):69-85. PMID:26467546
3. **Woodbury A**, McCrary MR, Yu SP. Molecular Targets and Natural Compounds in Drug Development for the Treatment of Inflammatory Pain [published online ahead of print May 14, 2018]. *Current Drug Targets*. 01 Jan 2018, 19(16):1905-1915. PMID: 29756577
4. Kao G, Kalangara JP, **Woodbury A**. Percutaneous, Thermal, and Pulsed Radiofrequency for Nonmalignant Hip Pain. *Interventional Pain Management Reports*. 2018 March; 2(2):59-68.
5. **Woodbury A**, Myles B. Integrative Therapies in Cancer Pain. *Cancer Treat Res*. 2021;182:281-302. doi: 10.1007/978-3-030-81526-4_18. PMID: 34542889.

d. Book Chapters:

1. **Woodbury A**, Mohamad O, Yu SP and Wei L. Chapter V: "Inflammation in Ischemic Stroke: Mechanisms, Diagnosis, and Management"; in: *Ischemic Stroke: Symptoms, Prevention and Recovery*. Ed. Lakatos V, Somogyi B. Nova Science Publishers Inc. 2012.
2. Song M, **Woodbury A**, Yu SP. "Chapter 2: White Matter Injury and Potential Treatment in Ischemic Stroke"; in: *White Matter Injury in Stroke and CNS Disease*, Springer Series in Translational Stroke Research 4; Ed.

- Baltan S. Springer. 2014. Pages 39-52.
3. **Woodbury A**, Leung A. "Chapter 8: Adjuvant Treatments" in: *Fibromyalgia: Clinical Guidelines and Treatments*. Ed. Lawson E, Wallace M. Springer. 2015. Pages 113- 127.
 4. **Woodbury A**, Singh V. "Chapter 25: Coccygodynia"; in: *Pain Management Review, A Problem Based Learning Approach*. Ed. Anitescu M. Oxford University Press. 2018.
 5. Ogidan C, **Woodbury A**. "Chapter 8: Complementary and Alternative Therapies for Post- Traumatic Neuropathic Pain"; in: *Peripheral Nerve Injury and Pain: Epidemiology, Mechanisms, Rehabilitation and Treatment Guidelines*. Ed. Leung A. Nova Science Publishers. 2019. Pages 193-228.
 6. Kitzman J, **Woodbury A**, "Adjuvant Treatments for CRPS"; in: *Complex Regional Pain Syndrome*. Ed. Lawson E, Castellanos J. Springer. 2021. Pages 149-177.

e. Books Edited and Written:

1. **Woodbury A**, Spektor B, Singh V, Bobzien B, Patel T, Kalangara J. *Pain Medicine Board Review*, 1st Edition. Elsevier. 2017. Pages 1-204.
2. **Woodbury A**, Spektor B, Singh V, Bobzien B, Patel T, Kalangara J. *Pain Medicine Board Review*, 2nd Edition. Elsevier. 2021. Pages 1-204.

f. Manuals, Videos, Computer Programs, and Other Teaching Aids:
Lumina Care Plan for Fibromyalgia (pending)

g. Published Abstracts:

1. ***Woodbury A**, Maddi M, Fidler J, Fritz-French C, Garcia PS. "An Optimal Thrombin Concentration Preserves Dendritic Branching in Cortical Neuron Cultures." *ASA Abstracts*. October 18, 2011. A1298.
2. ***Woodbury A**, Choi KE, Garcia P, Yu SP, Wei L. "Neonatal Pain and Neuro- Psychiatric Disorders: Honokiol for Prevention and Treatment." *ASA Abstracts*. October 16, 2012. A241.
3. Meka A, Ji D, **Woodbury A**. Evolving understanding of the classification of fibromyalgia following surgery. *Journal of Pain*. 22: 600 (1 page). 01 May 2021.
4. Gebre M, Smith J, Krishnamurthy L, Allen J, Crosson B, Napadow V, **Woodbury A**. Alterations in Gray Matter Volume and GABA in Veterans Treated with Percutaneous Electric Neural Field Stimulation (PENFS). *Journal of Pain*. 22: 604 (1 page). 01 May 2021.

h. Other Publications:

1. **Woodbury A**, Williams K, Gulur P (*Pain Committee*). "Patients and Their Pain Experience in the Hospital: The HCAHPS Imperative with Payments at Risk in Value- Based Purchasing Environment. *ASA News*. March 2014; Vol. 78; No. 3. Pages 28-29.
2. **Woodbury A**, Dombrowski J (*Pain Committee*). "Is CAM a sham? Understanding complementary and alternative medicine for the practicing anesthesiologist. *ASA News*. August 2014. Pages 19-21.
3. **Woodbury A**. "Herbal Hematomas - Fact or Fantasy?" *ASRA News*. August 2016. Pages 37-40.

4. Kim D, **Woodbury A.** "Back to Acupuncture." *ASRA News*. February 2017. Page 35-38.
5. Kalangara J, Potru S, **Woodbury A.** "Life Beyond Pain: Transforming Pain Management Through Integrative Practices." *ASA Monitor* 2020; 84:35–36 doi: <https://doi.org/10.1097/01.ASM.0000724072.11183.f4>
6. Contributor, Pain Fellowship Handbook, 2014-2018