

## Maryam Jowza

### **Education**

08/2010 – 08/2011	Fellow in Pain Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA
08/2007 – 08/2010	Resident in Anesthesiology, Massachusetts General Hospital, Harvard Medical School, Boston, MA
07/2006 – 06/2007	Intern in Preliminary Medicine, Albert Einstein Medical Center, Philadelphia, PA
08/2002 - 05/2006	M.D. UMDNJ Robert Wood Johnson Medical School, Piscataway, NJ
08/1997 - 05/2001	B.A. Chemistry, Bard College, Annandale, NY

### Certification

08/2012	Board Certified in Pain Medicine: 47182
04/2011	Board Certified in Anesthesiology: 47182

### Licensure

NC Active License: 2015-0400

DEA: FJ1924299

NY Medical Acupuncture License- Inactive

NY Inactive License

MA Inactive License

### **Professional Experience—Employment History:**

02/2021- current	Associate Professor in Anesthesiology, University of North Carolina, Chapel Hill
01/2019- current	Associate Program Director, Pain Fellowship, University of North Carolina, Chapel Hill
10/2015- current	Assistant Professor in Anesthesiology, University of North Carolina, Chapel Hill
09/2013- 06/2015	Assistant Professor in Anesthesiology and Pain Medicine, Weill Cornell Medical College, New York Presbyterian Hospital
09/2011- 08/2013	Instructor in Anesthesiology and Pain Medicine, Weill Cornell Medical College, New York Presbyterian Hospital

### **Honors:**

09/2018	First Place Award for Poster Presentation, North Carolina Society of Anesthesiology, Greenville, NC.
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Maryam Jowza, MD

B Bowling, M Jowza. Clinical Presentation of Arachnoiditis Following Spinal Cord Stimulator. Pain Society of the Carolinas Annual Meeting 2018. Greenville, SC. 9/29/2018

05/2018                      UNC Department of Anesthesiology Residency Education Faculty Honor Roll  
05/2017                      UNC Department of Anesthesiology Resident Education Faculty Honor Roll  
04/2007                      Partners In Excellence Award, Massachusetts General Hospital, Hospital-wide selection, recognition for clinical excellence

**Bibliography and products of scholarship:**

Books and Chapters

**Jowza M**, Nagpal G, Viscomi CM, Rathmell JP. Pain in Pregnancy. In Chin ML, Fillingim RL, Ness TJ. Pain in Women. Oxford University Press, New York, 2013, pp. 122-134.

**Jowza M**, Minehart RD, Local Anesthetics. In Clinical Anesthesia Procedures of the Massachusetts General Hospital, Eighth Edition. Levine ed, Wolters-Kluwer, Philadelphia, 2010, pp. 208-216.

In Press/Submitted

James D, **Jowza M**. Hormones and Antibodies. In Adb-Elsayed Basic Anesthesia Review. Oxford University Press. 4 Pages. Submitted 08/31/2020.

**Jowza M**, James D. Neurological Disorders. In Adb-Elsayed Advanced Anesthesia Review. Oxford University Press. 4 Pages. Submitted 07/30/2020.

James D, **Jowza M**. Epilepsy and Anesthesia. In Adb-Elsayed Advanced Anesthesia Review. Oxford University Press. 4 Pages. Submitted 05/25/2020.

James D, **Jowza M**. Ilioinguinal and Iliohypogastric Nerves Interventions. In: Souza D, Kohan L, Narouze S. Bedside Pain Interventions. Springer Nature. Submitted 11/29/2019. 7 Pages.

Refereed Papers/Articles

A Cook, S Ghanavatian, **M Jowza**. Spontaneous Spread of Limb Complex Regional Pain Syndrome to the Ipsilateral Face With Ultimate Corneal Abrasion: A Case Report. *A A Pract.* 2020;14(10):e01301. doi:10.1213/XAA.0000000000001301

E Stephenson, Z Farzal, **M Jowza**, T Hackman, A Zonation, E Du. Postoperative Analgesic Requirement and Pain Perceptions after Non-aerodigestive Head and Neck Surgery. *Otolaryngol Head Neck Surg.* 2019 Dec;161(6):970-977. doi: 10.1177/019459981987169

E Du, Z Farzal, E Stephenson, A Tanner, K Adams, D Farquhar, M Weissler, S Patel, J Blumberg, **M Jowza**, T Hackman, A Zonation. Multimodal Analgesia Protocol after Head and Neck Surgery: Effect on Opioid Use and Pain Control. *Otolaryngol Head Neck Surg.* 2019 Apr 9; doi: 10.1177/0194599819841885

D James and **M Jowza** . Treating opioid dependence: Pain Medicine Physiology of Tolerance and Addiction. *Clin Obstet Gynecol.* 2019 Mar;62(1):87-97. doi: 10.1097/GRF.0000000000000422.

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D. James, **M Jowza**. "Pain in Burn Patients." Clin Plast Surg. 2017 Oct; 44(4):737-747. doi: 10.1016/j.cps.2017.05.005.

J Guillory, **M Jowza**, MC Reid. Piloting a Text Message-Based Social Support Intervention for Patients with Chronic Pain. Clin J Pain. 2015 Jun;31(6) 548-56 doi: 10.1097/AJP.0000000000000193

**M Jowza**; S Sattar;R Olson. Modeling Chlorite-Iodide Reaction Dynamics Using a Chlorine Dioxide-Iodide Reaction Mechanism J. Phys. Chem. A.; Feb 2005; 109(9); 1873-1878 PMID: 16833519

Refereed other products of scholarship

**M Jowza**. Neck and Back Pain. Anesthesia Education. Toolbox:  
<https://www.anesthesiatoolbox.com/docs/DOC-3371> Published 2/12/2018

**M Jowza**. Clinical Application of Medications PBLD. Anesthesia Education. Toolbox:  
<https://www.anesthesiatoolbox.com/docs/DOC-2789>. Published 7/31/2017

**M Jowza**. Local Anesthetic PBLD. Anesthesia Education. Toolbox:  
<https://www.anesthesiatoolbox.com/docs/DOC-3195> Published 12/19/2017

Refereed unpublished oral presentations and/or abstracts

**Jowza M**. Neuropathic Pain Treatment. National Chordoma Foundation Virtual Meeting. April 7, 2021

P Carter, **M Jowza**, Navigating Patient Encounters in the Opioid Epidemic: A Pilot Multidisciplinary Simulation Curriculum for Difficult Encounters" Society for Education in Anesthesia Spring Annual Meeting, Philadelphia, Pennsylvania May 8-10, 2020

P Carter, N Khathri, **M Jowza**. Intrathecal Pumps and Lawsuits: What Do You Do When All Else Fails? North American Neuromodulation Society Annual Meeting 2020. Caesars Palace, Las Vegas. 1/23/2020.

A Cook, M Ranahan M, **M Jowza**. Corneal Complication of Complex Regional Pain Syndrome. Pain Society of the Carolinas Annual Meeting 2019. Charleston, SC. 12/06/2019.

S Stookey, K Schott, **M Jowza**. Cluneal Nerve Stimulation for Cluneal Neuralgia. Pain Society of the Carolinas Annual Meeting 2019. Charleston, SC. 12/06/2019.

N Khatri, **M Jowza**. Identifying Implicit Bias of Pain Management Physicians Towards Certain Pain Conditions. American Society of Regional Anesthesia Annual Pain Medicine Meeting 2018. San Antonio, Tx. November 16, 2018.

B Bowling, **M Jowza**. Clinical Presentation of Arachnoiditis Following Spinal Cord Stimulator. Pain Society of the Carolinas Annual Meeting 2018. Greenville, SC. 9/29/2018

C Tillson, L Sylvester, **M Jowza**. Persistent Genital Arousal Syndrome: A referral to Pain Specialist? Pain Society of the Carolinas Annual Meeting 2018. Greenville, SC. 9/29/2018

E Du, MD, Z Farzal, MD, E Stephenson, A Tanner, K Adams, **M Jowza, MD**, S Patel, J Blumberg, A Zanation, MD. Postoperative Analgesic Requirement and Pain Perceptions after Minor Head and Neck Surgery. Triological Society 121st Annual Meeting 2018. National Harbor, MD. April 22, 2018.

C Mokesky, **M Jowza**. Mishaps in Anticoagulation with Indwelling Epidural. Pain Society of the Carolinas Annual Meeting 2017. Charleston, SC. 9/23/2017

AR Reddy, **M Jowza**. Slipped Rib Syndrome. American Society of Regional Anesthesiology Annual Meeting 2017. Orlando, FL 11/16/2017

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K Schott, D James, **M Jowza**, J Wang, SA Reddy, J Park, Improving Nursing Knowledge Regarding Epidural Catheter Care. American Society of Anesthesiology Annual Meeting 2017. Boston, MA 10/22/2017

A. Reddy and **M. Jowza**. "Spinal cord Ischemia in setting of Indwelling Epidural Catheter. Abstract and Presentation at American Society of Regional Anesthesiology Meeting 2016. San Diego, CA 11/19/2017

P. Pessantes and **M. Jowza**. "Malignant Hyperthermia Masked by Alcohol Withdrawal?" Medically Challenging Case Presentation. American Society of Anesthesiology Annual Meeting 2016. Chicago, IL. 10/24/2016

V Bhasin and **M Jowza**. Two Cases of Cutaneous CSF Leak After CSE Treated with Conservative Management. American Society of Regional Anesthesiology Meeting. May 2015. Las Vegas, NV 5/24/2015

G Kaur and **M Jowza**. Chronic Pain in Survivors of Torture. Poster at Post Graduate Assembly. Dec 2014. New York, NY 12/13/2014

Newsletters

**M Jowza**, Alston T. Literature Review: Nitrous Oxide and Perioperative Cardiac Morbidity (ENIGMA-II) Trial: Rationale and Design. Society of Cardiovascular Anesthesia Newsletter (www.scahq.com) June 2009; 8 (4)

**M Jowza**, Alston T. Literature Review: Stress Doses of Hydrocortisone in High-Risk Patients Undergoing Cardiac Surgery: Effects on Interleukin-6 to Interleukin-10 Ratio and Early Outcomes. Society of Cardiovascular Anesthesia Newsletter (www.scahq.com) June 2009, 8(3)

Digital and other novel forms of scholarship

Department of Anesthesiology Multidisciplinary Pain Fellowship Education Series:

**M Jowza**. Suicidal Cancer Pain Patient. University of North Carolina. 5/09/2016

**M Jowza**. Narcissistic Patient with a Complication. University of North Carolina. 5/09/2016

D James, **M Jowza**. Sexually Inappropriate Patient. University of North Carolina. 5/9/2016

**M Jowza**. Stellate High Spinal. University of North Carolina. 11/02/2015

**M Jowza**. Intercostal Block Pneumothorax. University of North Carolina. 11/02/2015

D James D, **M Jowza**. Belligerent Patient: To Injection or not to inject? University of North Carolina. 11/02/2015

**Teaching activities:**

Course director

11/22/2019- current      School of Medicine, Pain Management Elective (Anesthesia 409) for senior medical students.

Lectures

To Medical Students

05/26/2021                      "Pain Management Basics"

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04/29/2021 “Tools for Pain Control,” “High Yield Pain”  
Monthly 12/2019 – 04/2020 “Introduction to Chronic Pain” University of North Carolina Spine and Imaging Center.  
Monthly 12/2019 – 04/2020 “Treatment Options in Chronic Pain” University of North Carolina Spine and Imaging Center.  
Monthly 12/2019 – 04/2020 “Basics of Opioids” University of North Carolina Spine and Imaging Center.  
08/08/2017 “Opioid Case Studies” Patient Centered Care Group Speaker. University of North Carolina School of Medicine.  
Annually 2017-2021 “Pain Management” Anesthesia Boot Camp Course University of North Carolina School of Medicine.  
Annually 2017-2021 “Multimodal Analgesia” Anesthesia Boot Camp Course, University of North Carolina School of Medicine.

Joint to fellows, residents and medical students

04/06/2021 “Pain Alphabet Soup: AED’s, NSAID, MISC”, Virtual Lecture  
08/18/2021 “Procedure Pitfalls”, Virtual Lecture  
08/11/2020 “Imaging in Spine Procedures” University of North Carolina Spine and Imaging Center  
07/23/2019 “Introduction to Lumbar Procedures” University of North Carolina Spine and Imaging Center.  
07/30/2019 “Introduction to Anatomy and Fluoroscopy for Cervical and Thoracic Procedures” –University of North Carolina Spine and Imaging Center  
06/04/2019 “Intrathecal Pumps”- University of North Carolina Spine and Imaging Center  
10/23/2018 “Pharmacology for Boards (USMLE, Anesthesiology and Pain)” University of North Carolina Spine and Imaging Center  
08/01/2018 “Pain and Anesthesia—Primer for Surgeons” University of North Carolina Womac Conference Room  
07/24/2018 “Introduction to interventional procedures cervical and thoracic region.” University of North Carolina Spine and Imaging Center  
08/22/2017 “Opioids History of Abuse” University of North Carolina Spine and Imaging Center  
10/17/2017 “Anticonvulsants, NSAIDs and Antipyretic” University of North Carolina Spine and Imaging Center  
11/14/2017 “Pain of Spinal Origin Including Radicular Pain, Zygapophysial Joint Disease” University of North Carolina Spine and Imaging Center  
10/03/2017 “Anatomy, Physiology and Pharmacology of Pain Transmission & Modulation” University of North Carolina Spine and Imaging Center

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- 12/23/2016 “Ins and Outs of Pain Signaling” University of North Carolina Spine and Imaging Center
- 12/13/2016 “Pharmacology of Neuropathic Agents” University of North Carolina Spine and Imaging Center
- 05/12/2015 “Neuropathic Pain Medications: Board Review” University of North Carolina Spine and Imaging Center

Grand Rounds

At UNC

- 03/14/2018 “Medical Marijuana Pros and Cons.” Department of Anesthesiology. UNC Chapel Hill. Bondurant G100.
- 03/15/2017 "Opioids in Acute Pain." Department of Ear Nose and Throat. UNC Chapel Hill. Physician’s Office Building.
- 02/16/2017 “Opioid Use and Misuse." Department Internal Medicine. UNC Chapel Hill. Old Clinic Auditorium.
- 02/01/2017 “Analgesia First? The Rise and Fall of Preemptive Analgesia.” Department of Anesthesiology. UNC Chapel Hill. Bondurant G100.

Outside UNC:

- 09/16/2020 “Tired, Fat and in Pain: The Link Between Obesity and Pain.” Massachusetts General Hospital Multidisciplinary Pain Grand Rounds.
- 05/12/2014 “Acute Pain Management in Opioid Tolerant Patient.” Weill Cornell Department of Anesthesia Grand Rounds.
- 02/13/2012 “Interventional Options for Cancer Pain Management” Department of Geriatrics and Palliative Care Grand Rounds, Weill Cornell Medical College: Continuing Education Lecture

Continuing Education Lecture

At UNC

- 12/15/2016 “Opioids, Controversy, Conversion, etc.” Adult Pain Resource Nurse Conference. Department of Nursing at UNC Chapel Hill. Adult Pain Resource Nurse Course. Nursing Education Conference Room, Old Clinic.
- 12/15/2016 “Cancer Pain.”. Adult Pain Resource Nurse Conference Department of Nursing at UNC Chapel Hill. Adult Pain Resource Nurse Course. Nursing Education Conference Room, Old Clinic.

Outside UNC

- 06/17/2020 “PBLD: Perioperative management of patients on partial opioid agonists and antagonists.” Carolina Refresher Course. Kiawah Island, SC. (Cancelled due to Pandemic)
- 06/17/2020 “Is there a role for cannabinoids in acute and chronic pain therapy?” Carolina Refresher Course. “Kiawah Island, SC. (Cancelled due to Pandemic)

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- 04/02/2020 “Interdisciplinary Simulation Curriculum In Pain Management for Navigating Difficult Patient Encounters.” Society of Behavioral Medicine Annual Meeting. San Francisco, CA. (Cancelled due to Pandemic)
- 10/27/2018 “Interventions in Cancer Pain.” 10<sup>th</sup> Annual Coping with Cancer Conference: Cancer Pain Management During the Opioid Epidemic. Carolina Inn. Chapel Hill, NC
- 03/24/2018 “Medical Marijuana: Pro Con Debate” Pain addiction and the Law Conference. Friday Center. Chapel Hill, NC
- 10/23/2017 “PBLD: MY Next Patient is on Opioids: The good, bad, and ugly” 10<sup>th</sup> Annual Duke-Wake Forest Pediatric Anesthesiology Conference. Friday Center, Chapel Hill, NC
- 05/24/2014 “Pain of Spinal Origin.” New York Presbyterian Multidisciplinary Evaluation and Treatment of Pain. CME Conference. Weill Cornell Medical Auditorium, New York, NY
- 12/10/2013 “Cancer Pain Management” Pain Management Symposium. Weill Cornell Medical College. Weill Cornell Conference Center, New York, NY

#### Clinical Teaching

- 01/2019- current Liaison for Chronic Pain elective for the UNC Department of Radiology
- 01/2019- current Liaison for Chronic Pain elective for the UNC Department of Physical Medicine and Rehabilitation
- 01/2019- current Liaison for Chronic Pain elective for the UNC Department of Palliative Care
- 01/2017- 2020 Rotation director for Anesthesiology residents on the Acute Pain Service
- 01/2017- 2020 Rotation director for Anesthesiology residents on Chronic Pain Service
- 01/2017- 2020 Rotation director for Anesthesiology residents on Advanced Chronic Pain Elective
- 01/2017- current Liaison for Chronic Pain elective for the UNC Department of Psychiatry
- 10/2017- current Clinical teaching to UNC addiction fellows on pain medicine rotation
- 10/2015- current Clinical teaching to UNC anesthesia residents during Acute Pain Rotations
- 10/2015 – current Clinical teaching to UNC anesthesia residents during Chronic Pain Rotations
- 10/2015- current Clinical teaching to UNC anesthesia pain fellows
- 10/2015- current Clinical Teaching to UNC neuroradiology fellows
- 10/2015- current Clinical Teaching to UNC orofacial pain fellows on pain medicine rotation
- 10/2015- current Clinical teaching to UNC psychiatry on pain medicine rotation
- 10/2015- current Clinical teaching to UNC PM&R on pain medicine rotation

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Student Preceptorships

08/2020- 07/2020 Faculty Mentor for Pain Fellowship Fellows- Ryan Stuckey, MD, Matthew Hallman, MD, Danielle Ward, MD

07/2019- 07/2020 Faculty Mentor for Pain Fellowship Fellows – Jon McBride, MD, Mikio Ranahan, MD, Katherine Schott, MD

07/2019 - 07/2020 Faculty Mentor to Residents: Reena Nagar, MD, Nasir Khatri, MD

07/2018 – 07/2019 Faculty Mentor for Pain Fellowship Fellows – Lauren Sylvester, MD, Britney Bowling, MD, Aravind Reddy, MD

Attending on Clinical Service

2015 – current Attending physician for UNC Anesthesiology Inpatient Acute Pain Service

2015 – current Attending physician for UNC Anesthesiology Inpatient Chronic Pain Service

2015 – current Attending physician for UNC Anesthesiology Outpatient Pain Clinic

Other Supervision

2015 - current MOCK oral board exam examiner, Department of Anesthesiology, UNC Chapel Hill

2015 - current OSCE evaluator, Department of Anesthesiology, UNC Chapel Hill

**Professional Service**

To discipline

02/2020- current Peer Reviewer Trials

06/2019- current Food and Drug Administration (FDA) Advisory Committee for Analgesics and Anesthetics

06/2017- current Peer Reviewer: The Toolbox Project

06/2016- 06/2017 Steering committee for pain fellowship curriculum development, The Toolbox Project

04/2016 - current Expert Reviewer: North Carolina Medical Board

02/2014-10/2015 Steering Committee Member for the Acute Pain Curriculum. The Anesthesia Toolbox Project

07/2014- current Peer Reviewer: Pain Practice Journal

Within UNC

Committees

07/2018- current Chair, Fellowship Clinical Competency Committee

10/2018- current Residency Interviewing Committee

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5/2018- current	Program Evaluation Committee
05/2016- current	Fellowship Selection Committee