DONALD AND BARBARA

ZUCKER SCHOOL *of* MEDICINE

AT HOFSTRA/NORTHWELL

Date Completed: October 2025

Name: Michelle Kars, MD, FAAP

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Educational Background

Education

New York University School of Medicine 2002- 2006
New York, NY
Degree: Doctor of Medicine

Cornell University 1998- 2002
Ithaca, NY
Degree: Bachelor of Science with Honors
Major: Nutritional Sciences

Executive Education

Northwell Health Physician 2025- Current
Leadership, Exposure, and Advancement Program (LEAP)

Wharton School of the University of Pennsylvania 2019
Anesthesia Business Group Executive Management Program
On-site program: covers core disciplines of corporate landscape, including finance, marketing, operations, HR, and leadership.

NAPA Select Leadership Program 2018- 2019
Anesthesia Leadership Development Program
Nine-month comprehensive leadership program led by Dartmouth's Tuck School of Business.

Postdoctoral Training

Pediatric Anesthesiology Fellowship 2012- 2013
Children's National Medical Center
Washington, DC

Anesthesiology Residency 2009- 2012
New York Presbyterian Hospital- Weill Cornell
New York, NY

Pediatrics Residency 2006- 2009
New York Presbyterian Hospital- Weill Cornell
New York, NY

Professional Experience

Faculty Academic Appointments

Associate Professor of Anesthesiology 2022- Current
The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Assistant Professor of Anesthesiology 2013- 2021
The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Appointments at Hospitals/Affiliated Institutions

Division Chief, Pediatric Anesthesiology 2013- Current
Northwell Cohen Children's Medical Center
Long Island Jewish Medical Center

Major Administrative Leadership Positions

Local

Director, Pediatric Anesthesia Fellowship 2022- 2023
Northwell Cohen Children's Medical Center

Chief, Division of Pediatric Anesthesiology 2021- Current
Northwell Cohen Children's Medical Center

Director, Pediatric Anesthesiology Service Line 2021- 2022
North American Partners in Anesthesia- NY

Director, Pediatric IVPCA Training Course 2020- Current
Northwell Cohen Children's Medical Center

Director, Continuing Medical Education 2018- 2022
Northwell Cohen Children's Medical Center
Northwell Long Island Jewish Medical Center

Director, IVPCA and Opioid Training Course 2018- 2022
Northwell LIJ Medical Center

Director, Pediatric Regional and Acute Pain Service 2014- Current
Northwell Cohen Children's Medical Center

National

Chair, Society Meeting
Society for Pediatric Pain Medicine, Annual Spring Meeting 2024 2023- 2024

Co-Chair, Society Meeting 2022- 2023
Society for Pediatric Pain Medicine Annual Spring Meeting 2023

Chair, Pediatric Special Interest Group 2021- Current
American Society for Regional Anesthesia and Pain Medicine (ASRA)

Associate Program Chair 2021- 2022
Society for Pediatric Anesthesia Spring Meeting 2022

Anesthesia Director, Children's Surgery Verification Program 2019- Current
American College of Surgeons
Cohen Children's Medical Center

Committee Service

Local

Board of Governors Marketing Committee 2025- Current
Northwell Health Physician Partners

Board of Governors Patient Experience Committee 2025- Current
Northwell Health Physician Partners

EPIC implementation site leader 2023- Current
Northwell Cohen Children's Medical Center

Pediatric Presurgical Testing, Interim Director 2023- 2025
Northwell Cohen Children's Medical Center

Northwell Perioperative Process Improvement 2023- Current
Northwell Health

CCMC OR Block Committee 2022- Current
Northwell Cohen Children's Medical Center

CCMC Medical Leadership Council 2021- Current
Northwell Cohen Children's Medical Center

CCMC OR Transition Executive Committee 2021- Current
Northwell Cohen Children's Medical Center

Pediatric Surgical Site Infection Committee 2020- Current
Northwell Cohen Children's Medical Center

Pediatric Operating Room Committee 2020- Current
Northwell Cohen Children's Medical Center

Performance Improvement and Patient Safety Committee (PIPS) 2020- Current
Northwell Cohen Children's Medical Center

Site liaison for pediatric anesthesia 2017
Northwell Glen Cove Hospital

Anesthesiology representative for the Housestaff Quality Council, 2010- 2012
New York Presbyterian Hospital

Cornell Tanzania Society/ Touch Foundation, 2007- 2012
New York Presbyterian Hospital

Zucker School of Medicine at Hofstra/Northwell

Student Advancement Committee 2019- 2023
The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Academy of Medical Educators 2019- Current
The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Quality Assurance Committee, Department of Anesthesia 2017- Current
Northwell Long Island Jewish Medical Center

Clinical Competency Committee, Anesthesia Residency 2017- Current
The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Regional

New York Regional QI Committee of Anesthesiology for 2018- 2022
North American Partners in Anesthesia

National and International

American Society for Regional Anesthesia and Pain Medicine (ASRA) 2017- Current

- Pediatric Special Interest Group
    - Immediate Past Chair 2025
    - Chair 2021- 2024

- Elected Representative, Public Relations Standing Committee
- Point of Care Ultrasound Special Interest Group

Society for Pediatric Pain Medicine (SPPM) 2013- Current

- Education Committee (Plan annual meetings)
- Research Committee
- Communications Committee

Society for Pediatric Anesthesia (SPA) 2012- Current

- Education Committee

Professional Societies

American Society for Regional Anesthesia and Pain Medicine (ASRA) 2017- Current

Society for Pediatric Pain Medicine (SPPM) 2013- Current

Society for Pediatric Anesthesia (SPA) 2012- Current

American Society of Anesthesiologists (ASA) 2009- Current

New York State Society of Anesthesiologists (NYSSA) 2009- Current

American Academy of Pediatrics (AAP) 2006- Current

Editorial Activities

Associate Editor, Regional Anesthesia and Pain Medicine (RAPM) 2023- Current

Journal Reviewer, Pediatric Anesthesia 2020- Current

Journal Reviewer, Regional Anesthesia and Pain Medicine (RAPM) 2019- Current

Editor, Pediatric SIG Newsletter, American Society of Regional Anesthesia 2018- 2021

Honors and Prizes

Northwell Truly Awards 2025, Nominee November 2024
Northwell Health

Alpha Omega Alpha (AOA) Honor Society January 2024
Zucker School of Medicine at Hofstra/Northwell

Women in Medicine Award September 2021
Honor for Outstanding Contributions during the Covid19 Pandemic
LIJ Medical Staff Society Women in Medicine Event

Mission, Vision, Values Champion (MVV Award) June 2021
National award
North American Partners in Anesthesia

Proclamation September 2020
New York State Senator Anna M. Kaplan
Recognizing the creation of Mask a Hero New York

Presidential Award for Teamwork February 2020
Anesthesiology Liaison
Northwell Cohen Children's Medical Center

2019 Press Ganey Pediatric Excellence Award September 2019
Evolution of the role of Pediatric NP
Created position for perioperative NP to facilitate inpatient preoperative optimization
Press Ganey National Client and Executive Leadership Conference

Northwell Academic Competition June 2018
Poster winner, 2nd place Scientific Abstract

Junior Faculty of the Year June 2017
Department of Anesthesiology
The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Cornell Division of Nutritional Sciences Honors Program 2001- 2002

National Society of Collegiate Scholars 1999- 2002

Dean's List, Cornell University 1999- 2002

Cornell University Honors Degree Recipient May 2002

Report of Local Teaching and Training

Teaching of Students in Courses

Faculty for medical student selective rotation in anesthesia — 2014 - Current
MS3's and MS4's
Northwell Long Island Jewish Medical Center

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

Pediatric Anesthesia Fellowship Lecture Series — 2021- Current
Pediatric Anesthesia Fellows
Northwell Cohen Children's Medical Center

Director, Monthly Morbidity and Mortality Conference — 2018- 2022
Department of Anesthesiology
Northwell Long Island Jewish Medical Center

'Mac, Uptake, and Distribution of Volatile Anesthetics' — 2014- Current
Resident Lecture
Northwell Long Island Jewish Medical Center

Pediatric Problem Base Learning Discussions — 2014- Current
Residents PGY1-4
Northwell Long Island Jewish Medical Center

Written Board Review Series — 2014- Current
Residents PGY 2-4, Bi-Annually
Northwell Long Island Jewish Medical Center

Oral Board Review Series — 2014- Current
Residents PGY2-4
Northwell Long Island Jewish Medical Center

Clinical Supervisory and Training Responsibilities

Director, Pediatric Anesthesiology Fellowship — 2022- 2023
Zucker School of Medicine at Hofstra/Northwell

Faculty, Pain Medicine Fellowship — 2020- Current
Zucker School of Medicine at Hofstra/Northwell

Core Faculty, Department of Anesthesiology — 2017- Current
Zucker School of Medicine at Hofstra/Northwell

Resident daily assignments, Department of Anesthesiology — 2017- 2020
Zucker School of Medicine at Hofstra/Northwell

Formally Supervised Trainees

Faculty Mentor- Dr. Allen Saks, Resident — 2017-2020
Zucker School of Medicine at Hofstra/Northwell

Faculty Mentor- Dr. Yiyi Liu, Resident 2016- 2019
Zucker School of Medicine at Hofstra/Northwell

Faculty Mentor- Dr. Lindsay Lopata, Resident 2014- 2017
Zucker School of Medicine at Hofstra/Northwell

Formal Teaching of Peers (e.g., CME and other continuing education courses)

Pediatric IVPCA Training Course 2020- Current
Northwell Cohen Children's Medical Center

IVPCA and Opioid Training Course 2018- Current
Department of Anesthesiology, LIJ Medical Center

Regularly Scheduled Lecture Series, M&M moderator 2018- 2021
Department of Anesthesiology, LIJ Medical Center

Local Invited Presentations

Updates in Pediatric Pain Management and Regional Anesthesia March 2022
Grand Rounds Series, Department of Pediatrics
Northwell Cohen Children's Medical center

Basics of Pediatric Pain Management, Hospitalist lecture series September 2020
Northwell Cohen Children's Medical Center

Pediatric Pain Management in the Era of the Opioid Crisis, October 2017
Grand Rounds presentation to the Department of Pediatrics
Northwell Lenox Hill Hospital

Pediatric Pain Management, Nursing Grand Rounds Series November 2014
Northwell Cohen Children's Medical Center

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

Regional

Blocks for Kids: Tailoring regional anesthetics to minimize opioids. Visiting Professor Grand Rounds presentation to the Department of Anesthesiology, Weill Cornell Medical Center, New York, NY. August 2018.

Pediatric Pain Management, Grand Rounds presentation to the Department of Pediatrics, South Nassau Communities Hospital, Oceanside NY. November 6, 2015.

National

Moderator, Society for Pediatric Pain Medicine Annual Meeting, Orlando, Florida. March, 2025.

Panel Moderator, Pediatric anesthesia panel. PGA 78: Post Graduate Assembly in Anesthesia, New York, NY, December 2024

Invited Speaker, Adjuvant adventures, a galactic quest in pediatric regional anesthesia, Society for Pediatric Anesthesia Spring Meeting, Anaheim, CA April 2024

Moderator: A whole new world, promoting our specialty: an interactive panel. Society for Pediatric Pain Medicine (SPPM) Annual Meeting, Anaheim, CA, April 2024.

Program chair: Society for Pediatric Pain Medicine (SPPM) Annual Meeting, Anaheim, CA, April 2024.

Invited Speaker, Fascial plane blocks in pediatrics, a lesson of the ages. American Society of Regional Anesthesia and Pain Medicine (ASRAPM) Spring Meeting, San Diego, CA March 2024

Poster Moderator: American Society of Regional Anesthesia and Pain Medicine (ASRAPM) Spring Meeting, San Diego, CA March 2024

Workshop Faculty, US guided regional anesthesia workshop. American Society of Regional Anesthesia and Pain Medicine (ASRAPM) Spring Meeting, San Diego, CA March 2024

Invited Speaker, Top 2 papers in pediatric regional anesthesia and acute pain management. American Society of Regional Anesthesia and Pain Medicine (ASRAPM) Spring Meeting, San Diego, CA March 2024

Invited Speaker, Buprenorphine: It Doesn't Have to be Painful for the Patient or the Provider!, PGA 77: Post Graduate Assembly in Anesthesia, New York, NY, December 2023

Invited Speaker, Social Media in Anesthesiology, PGA 77: Post Graduate Assembly in Anesthesia, New York, NY, December 2023

Invited Speaker, The impact of the opioid crisis on pediatric pain management, PGA 77: Post Graduate Assembly in Anesthesia, New York, NY, December 2023

Workshop Faculty: Pediatric Regional Anesthesia. Principles of Pediatric Anesthesia and Critical Care Conference, The Boston Children's Hospital, Boston, MA. May 2023

Invited Speaker, Opioid Epidemic and Pediatric Anesthesia. 48th Annual Regional Anesthesiology and Acute Pain Meeting, Hollywood, FL April 2023

Workshop Faculty: Blocks for Knee Surgery. 48th Annual Regional Anesthesiology and Acute Pain Meeting, Hollywood, FL April 2023

Workshop Faculty: Blocks for upper extremity surgery. 48th Annual Regional Anesthesiology and Acute Pain Meeting, Hollywood, FL April 2023

Invited Speaker: PoCUS, Where, When, How? 48th Annual Regional Anesthesiology and Acute Pain Meeting, Hollywood, FL April 2023

PBLD: Regional anesthesia in pediatrics, convincing the parent to get a block. 46th Annual Regional Anesthesiology and Acute Pain Meeting, Hollywood, FL April 2023

Program Co-Chair, Society for Pediatric Pain Medicine Spring Meeting, Austin, Texas March 2023

Moderator, Session: Pain in Athletes. Society for Pediatric Pain Medicine Meeting, Austin, Texas, March 2023.

Invited Speaker, Buprenorphine: It Doesn't Have to be Painful for the Patient or the Proivder!, PGA 76: Post Graduate Assembly in Anesthesia, New York, NY, December 2022

Invited Speaker, Social Media in Anesthesiology, PGA 76: Post Graduate Assembly in Anesthesia, New York, NY, December 2022

Invited Speaker, Regional Anesthesia Success in the Most Challenging Cases, PGA 76: Post Graduate Assembly in Anesthesia, New York, NY, December 2022

Associate Program Chair, Society of Pediatric Pain Medicine Spring Meeting, Tampa, Florida, March 2022.

Invited Faculty, Pediatric Regional Anesthesia Workshop: Incorporating Fascial Plane Blocks into Every Day practice, Society for Pediatric Pain Medicine Spring Meeting, Tampa, Florida, March 2022

Invited Speaker, Panel: Point-of-care Ultrasound (PoCUS): it's Time to Provide Education and Training for ALL, PGA 75: Post Graduate Assembly in Anesthesia, New York, NY December 2021

Invited Speaker, Panel: Keeping Kids Safe Under Anesthesia, PGA 75: Post Graduate Assembly in Anesthesia, New York, NY, December 2021

Invite Speaker, Buprenorphine: It Doesn't Have to be Painful for the Patient or the Provider!, PGA 75: Post Graduate Assembly in Anesthesia, New York, NY, December 2021

Invited Speaker, Moderator: Social Media and Anesthesiology- Upping the Game!, PGA 75: Post Graduate Assembly in Anesthesia, New York, NY, December 2021

Invited Speaker, Pediatric Regional Anesthesia: Clinical Updates and Safety Webinar, American Society of Regional Anesthesia and Pain Medicine, June 17, 2021

Invited Speaker, FOCUS on PoCUS Panel:'PoCUS is for Kids Too!' 44th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, Lake Buena Vista, Florida May 2021

Invited Faculty, Moderator- Poster Presentation Session, 44th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, Lake Buena Vista, Florida May 2021

Invited Faculty, Pediatric Regional Anesthesia Workshop, 44th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, Lake Buena Vista, Florida May 2021

Invited Speaker, Essential of Pediatric Regional Anesthesia Panel- 'Getting "Back" on your Feet- Regional Anesthesia for Adolescent Scoliosis Surgery', 44th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, Lake Buena Vista, Florida May 2021

Invited Speaker, Panel: Covid-19 for the Anesthesiologist, 'Covid-19 Airway Management: Myths and Truths', PGA 74: Post Graduate Assembly in Anesthesia, Virtual Meeting, December 2020

Invited Speaker, Strategies and Lesson Learned on the Front Lines of New York's Coronavirus Fight, Webinar, New York State Society of Anesthesiologists, April 20, 2020

Invited Speaker, Panel Moderator, and Workshop Faculty, American Society of Regional Anesthesia and Pain Medicine, April 2020.

Invited Speaker, "Show me the study! The evidence you need- regional anesthesia decreases opioid use". Society of Pediatric Pain Medicine Conference, Nassau, Bahamas, February 2020

Invited speaker, 'PoCUS for an Obstetric Patient with a Splenic Artery Aneurysm', 73rd Post Graduate Assembly in Anesthesiology, December 2019.

Associate Faculty, Point of Care Ultrasound (PoCUS) Course, American Society of Regional Anesthesia, Orlando, Florida, December 2019.

Moderator "The Opioid Pendulum: How to moderate the swing", Session for the Society for Pediatric Pain Medicine Spring Meeting, Houston, Texas, March 2019.

'Facing the opioid epidemic: An opioid addicted adolescent with Crohn's disease on Suboxone presents for hemi-colectomy' Problem Based Learning Discussion (PBLD) present at the Society for Pediatric Anesthesia Spring Meeting, Houston, Texas, March 2019.

'The case of the perimortem C-section'. Annual Bragging Contest, 72nd Post Graduate Assembly in Anesthesiology, December 2018.

'Take a breath! Child with morbid obesity and severe OSA for T&A with G6PD deficiency'.
Problem-Based Learning Discussion (PBLD) administered at Anesthesiology 2018, San Francisco, CA, October 2018.
Moderator, "The Science of Pain" Session for Society of Pediatric Pain Medicine Spring Meeting, Phoenix, Arizona. March 2018.

Where's the airway? Giant facial tumor for surgical resection: It's all about teamwork! Problem-Based Learning Discussion (PBLD) administered at the Society for Pediatric Anesthesia Spring Meeting, Phoenix, Arizona. March 2018

"Where's the Airway?" 19th Annual Bragging Contest, 71st Post Graduate Assembly in Anesthesiology, New. York, NY, December 2017.

Just Breathe! Morbid obesity and severe OSA for T&A with G6PD deficiency, no Tylenol or NSAIDS allowed. Problem-Based Learning Discussion (PBLD) administered at the Society for Pediatric Anesthesia Spring Meeting March 2017.

International

Invited Speaker, The role of Pediatric regional anesthesia for ERAS
National Conference of Research Society of Anaesthesiology Clinical Pharmacology (RSACP)
Virtual meeting, March 6, 2021 Haryana, India

Report of Clinical Activities and Innovations

Current Licensure and Certification

BOARD CERTIFICATIONS

American Board of Anesthesiology, Pediatric Anesthesia	2013- Current
American Board of Anesthesiology	2012- Current
American Board of Pediatrics	2009- Current

LICENSURE

New York	2009- Current
District of Columbia	2012 (inactive)
Maine (Youth Camp License)	2025

PRACTICE ACTIVITIES

Attending Pediatric Anesthesiologist Northwell Cohen Children's Medical Center, LIJ Medical Center	2013- Current
Camp Physician Camp Cedar, Casco, Maine	July 2025

CLINICAL INNOVATIONS

Leading strategic design and development of multidisciplinary Pediatric Complex Pain Clinic 2025
Northwell Cohen Children's Medical Center

Led multidisciplinary revision of hospital code policy to ensure standardization and high-quality care during procedural codes 2025

Leader in implementation of a tiered operating room classification system for pediatric emergency and urgent cases to improve access to surgical care 2024
Northwell Cohen Children's Medical Center

Created the departments first pediatric anesthesia quality dashboard 2024
Northwell Cohen Children's Medical Center

Directed comprehensive redesign and implementation of perioperative workflows for Pediatric Presurgical Testing clinic 2023- 2024
Northwell Cohen Children's Medical Center

Oversaw the planning and successful launch of new state of the art pediatric operating room complex 2022
Northwell Cohen Children's Medical Center

Founded and secured ACGME accreditation for the institutions first Pediatric Anesthesiology Fellowship 2021
Northwell Cohen Children's Medical Center

Established the institutions first pediatric regional and acute pain service 2014
Northwell Cohen Children's Medical Center

Report of Education of Patients and Service to the Community Activities

Co-Founder, Mask A Hero 2020
Non-Profit Organization
Donation of PPE and Support for Mental health services for healthcare workers during the COVID-19 Pandemic

Educational Material for Patients and the Lay Community

Interview, Katie Couric's Wake-Up Call Daily Newsletter, Published May 7, 2020

Television Interview, Coronavirus Update, MSNBC Live with Alicia Mendez, April 4, 2020

Television Interview, Coronavirus Update, NBC New York, April 2, 2020

Television Interview, Coronavirus Update, MSNBC Live with Chris Jansing, March 31, 2020

Report of Scholarship

Peer Reviewed Publications in Print or Other Media
Research investigations

1. Simmons R, Brennan M, Christos P, **Sckolnick M**, Osborne M. Recurrence rates in patients with central or retro areolar breast cancers treated with mastectomy or lumpectomy. *The American Journal of Surgery.* 2001; 182:325-329.

2. Ari P, **Kars M,** Meany H, Pestieau SR. Treatment of Transient Peripheral Neuropathy During Chimeric 14.18 Antibody Therapy in Children With Neuroblastoma: A Case Series, J Pediatr Hematol Oncol. 2018 March: 40(2):113-116.

3. Maloney C, Kallis M, El-Shafy IA, Lipskar AM, Hagen J, **Kars M**. Ultrasound-guided bilateral rectus sheath block vs. conventional local analgesia in single port laparoscopic appendectomy for children with nonperforated appendicitis. J Pediatr Surg. 2018 Mar;53 (3):431-436.

4. Boroda N, Malesinska M, **Kars MS**, Smith LP. The use of laryngeal mask airway for adenoidectomy. Int J Pediatr Otorhinolaryngol. 2018 Apr; 107:42-44

5. **Kars MS**, Villacres Mori B, Ahn S, Merwin S, Wendolowski S, Gecelter R, Rothman A, Poon S. Fentanyl versus remifentanil-based TIVA for pediatric scoliosis repair: does it matter? Reg Anesth Pain Med. 2019 Jun;44(6):627-631. doi: 10.1136/rapm-2018-100217. Epub 2019 Mar 28. PMID: 30923248.

6. Webb N, **Kars MS**, Butler AL, Malesinska M, Smith LP. The use of laryngeal mask airway for tonsillectomy and adenoidectomy. Int J Pediatr Otorhinolaryngol. 2021 Mar 20;144:110691. doi: 10.1016/j.ijporl.2021.110691. Epub ahead of print. PMID: 33773427.

7. Sarwahi V, Hasan S, Liao B, Galina J, Atlas A, Lo Y, Lee A, Lentz J, Amaral T, **Kars M**. Zero Patient-controlled Analgesia is an Achievable Target for Postoperative Rapid Recovery Management of Adolescent Idiopathic Scoliosis Patients. Spine (Phila Pa 1976). 2021 Nov 1;46 PMID: 34618705.

8. Peng R, Saleem MI, **Kars MS**, Smith LP. Laryngeal mask airway in pediatric tonsillectomy and adenoidectomy: a large cohort analysis. *Am J Otolaryngol.* 2025;104641. doi:10.1016/j.amjoto.2025.104641

9. Sarwahi V, Morledge A, Cohen A, Eigo K, Rahman E, Sarwahi V, Liao B, **Kars M**, Lo Y, DiMauro JP, Amaral T. Microdose Intrathecal Morphine Injection in Teenagers Undergoing Scoliosis Surgery Decreases Length of Stay, Pain Scores, and Opioid Consumption. Spine (Phila Pa 1976). 2025 Epub ahead of print. PMID: 40932303.

Other Peer-Reviewed Publications

1. Aronsohn J, Dowling O, **Kars M**, Roseman A. Massive hemoptysis during general endotracheal anesthesia in adults with Cystic Fibrosis Journal of Clinical Anesthesia, Nov 2017 Volume 42, 17 – 18

2. Hagen J, Devlin C, Barnett N, Padover A, **Kars M**, Bebic Z. Erector spinae plane blocks for pediatric cardiothoracic surgeries. J Clin Anesth. 2019 Mar 8;57:53-54. Doi 10.1016/j.clinanes.2019.03.010

3. Hagen JG, Barnett N, **Kars MS**, Padover A, Bunnell AM. Rectus sheath blocks in the extremes of body habitus. J Clin Anesth. 2019 Mar 9;57:55-56. doi: 10.1016/j.jclinane.2019.02.018.

4. **Kars MS**, Gomez Morad A, Haskins SC, Boublik J, Boretsky K. Point-of-care ultrasound for the pediatric regional anesthesiologist and pain specialist: a technique review. Reg Anesth Pain Med. 2020 Dec;45(12):985-992. doi: 10.1136/rapm-2020-101341. Epub 2020 Sep 14. PMID: 3292899

5. Patel A, **Kars MS**, Duggan LV, Mariano ER. How to engage in social media to get your work published. Anaesthesia. 2022 Nov 25. doi: 10.1111/anae.15919. Epub ahead of print. PMID: 36427346.

6. Kirpekar M, **Kars MS,** Mariano ER, Patel A. The Professional Use of Social Media in Anesthesiology: Developing a Digital Presence Is as Easy as ABCDE. Anesth Analg. 2024 Jul 1;139(1):238-243. doi: 10.1213/ANE.0000000000006612. Epub 2024 Feb 17. PMID: 38367248.

7. Boretsky K, **Kars MS**. Towards a brighter future: transforming care for children with chronic postsurgical pain. Reg Anesth Pain Med. 2025 Feb 5;50(2):129-131. doi: 10.1136/rapm-2024-105600. PMID: 39909551.

Research Publications Without Named Authorship

1. Glover CD, Fernandez AM, Huang H, Derderian C, Binstock W, Reid R, Dalesio NM, Zhong J, Stricker PA; **Pediatric Craniofacial Collaborative Group**. Perioperative outcomes and management in midface advancement surgery: a multicenter observational descriptive study from the Pediatric Craniofacial Collaborative Group. *Pediatr Anesth*. 2018; 00:1–9 (Member of investigative team cited in appendix of manuscript)

2. Glover CD, Fernandez AM, Huang H, Derderian C, Binstock W, Reid R, Dalesio NM, Zhong J, Stricker PA; **Pediatric Craniofacial Collaborative Group**. Perioperative outcomes and management in midface advancement surgery: a multicenter observational descriptive study from the Pediatric Craniofacial Collaborative Group. Paediatr Anaesth. 2018 Aug;28(8):710-718. doi: 10.1111/pan.13418. Epub 2018 Jun 19. PMID: 29920872. (Member of investigative team cited in appendix of manuscript)

3. Fernandez PG, Taicher BM, Goobie SM, Gangadharan M, Homi HM, Kugler JA, Skitt R, Cai L, Polansky M, Stricker PA; **Pediatric Craniofacial Collaborative Group**. Predictors of transfusion outcomes in pediatric complex cranial vault reconstruction: a multicentre observational study from the Pediatric Craniofacial Collaborative Group. Can J Anaesth. 2019 May;66(5):512-526. English. doi: 10.1007/s12630-019-01307-w. Epub 2019 Feb 14. PMID: 30767183. (Member of investigative team cited in appendix of manuscript)

4. Jalali A, Lonsdale H, Zamora LV, Ahumada L, Nguyen ATH, Rehman M, Fackler J, Stricker PA, Fernandez AM; **Pediatric Craniofacial Collaborative Group**. Machine Learning Applied to Registry Data: Development of a Patient-Specific Prediction Model for Blood Transfusion Requirements During Craniofacial Surgery Using the Pediatric Craniofacial Perioperative Registry Dataset. Anesth Analg. 2021 Jan;132(1):160-171. doi: 10.1213/ANE.0000000000004988. PMID: 32618624. (Member of investigative team cited in appendix of manuscript)

5. Lang SS, Meier PM, Paden WZ, Storm PB, Heuer GG, Bartlett SP, Taylor JA, Swanson JW, Meara JG, Proctor M, Okunowo O, Stricker PA; **Pediatric Craniofacial Collaborative Group**. Spring-mediated cranioplasty versus endoscopic strip craniectomy for sagittal craniosynostosis. J Neurosurg Pediatr. 2021 Jul 23;28(4):416-424. doi: 10.3171/2021.2.PEDS20983. PMID: 34298510.

6. King MR, Staffa SJ, Stricker PA, Pérez-Pradilla C, Nelson O, Benzon HA, Goobie SM; Pediatric Craniofacial Collaborative Group. Safety of antifibrinolytics in 6583 pediatric patients having craniosynostosis surgery: A decade of data reported from the multicenter **Pediatric Craniofacial Collaborative Group**. Paediatr Anaesth. 2022 Dec;32(12):1339-1346. doi: 10.1111/pan.14540. Epub 2022 Aug 16. PMID: 35925835.

Non-Peer Reviewed Scientific or Medical Publications/Materials in Print or Other Media

Proceedings of meetings or other non-peer reviewed research publications

1. Meeting synopsis of the Society for Pediatric Pain Management Spring Meeting, Session I "The Science of Pain". Newsletter for the Society of Pediatric Pain Management, Spring 2018.

2. Pediatric Panel Highlights. American Society of Regional Anesthesia (ASRA), Pediatric Special Interest Group Newsletter, Spring 2018.

3. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Summer 2018

4. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Fall 2018

5. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Winter 2018

6. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Spring 2019

7. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Summer 2019

8. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Fall 2019

9. Pediatric SIG Newsletter, American Society of Regional Anesthesia (ASRA), Winter 2021

Letters to the Editor

Kars MS, Hagen J, Maloney C, Kallis M, El-Shafy IA, Lipskar A. Reply to letter to the editor. J Pediatr Surg. 2018 Apr 24.

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

Simmons R, Burrel W, Brennan M, Christos P, **Sckolnick, M**, Thevarah S, Osborne M. Local and distant recurrence rates in skin sparing mastectomies compared with non-skin sparing mastectomies, an update. Abstract submitted to Annals of Surgical Oncology, 2001.

Sckolnick M. Understanding the Education and Management of Type 2 Diabetes in Low Income Populations. Honors thesis presented to Cornell University Division of Nutritional Sciences and Cornell Cooperative Extension, 2002.

Golbin J, Chander B, Hoffmann K, Lorch D, **Sckolnick M**, Wu J.
Use of the small-group teaching session to improve the ACGME core compentencies of medical knowledge, practice-based learning and improvement, and patient care. Presented to the Accreditation Council for Graduate Medical Education (ACGME) National Education Conference, 2005.

Kars, M, Ivascu N, Pamnani A, Cherqui D, Kluger M, Fleischut P. Reperfusion Syndrome: Severe coagulopathy and hemodynamic collapse leading to an anhepatic patient after liver transplantation. Presented as a medically challenging case at the American Society of Anesthesiologists annual meeting, October 2012.

Kars, M, Pestieau, S. Treatment of Transient Peripheral Neuropathy During Chimeric 14.18 Antibody Therapy in Children with Neuroblastoma: A Case Series. Presented at the Society for Pediatric Anesthesiology Annual Meeting, March 2013.

Kahn E, Abramovitz S, DeSancho M, **Kars M**, "Peripartum Management of Severe Factor XI Deficiency – Role for ROTEM?" Poster presentation at the NYSSA Post Graduate Assembly, December 2015

Hagen J, Rich B, **Kars M**. Open Laparotomy in a 1- Kg Pre-term Neonate Managed Perioperatively by Bilateral Rectus Sheath Blocks. Poster presentation for Society of Pediatric Anesthesia Conference, March 2016.

Maloney C, Abd El-Shafy I, Kallis M, Lipskar A, **Kars M**, Hagen J. Ultrasound- guided Rectus Sheath Block for Single Incision Laparoscopic Appendectomies in Non-Perforated Appendicitis. Poster presentation for Society of Pediatric Anesthesia Conference, March 2016.

Lopata L, Maloney M, Bejar L, Lipskar A, Hong A, Hagen J, **Kars M.** Ultrasound- guided Serratus Plane Block for Video- Assisted Pectus Excavatum Repair: A Novel Approach to Post-operative Pain Management. Poster presentation for Society of Pediatric Anesthesia and Society for Pediatric Pain Medicine Conferences, March 2016.

Bebic Z, Hagen J, Dimauro JP, **Kars M**. Utility of Obturator Nerve Block in the Diagnosis of Hip Pain in Spastic Diplegic Cerebral Palsy. Medically Challenging Cases presented to the Post-Graduate Assembly in Anesthesiology, December 2016.

Deygoo J, Toor J, **Kars M**. Complex Pain Management in a Child with Sickle Cell Disease for a Court-Ordered Four-Extremity Amputation. Medically Challenging Case presented to the Post-Graduate Assembly in Anesthesiology, December 2016.

Bebic Z, Hagen J, **Kars M**. Quadratus Lumborum Block: A Novel Use for Pediatric Hip Procedures. Presented to the Society for Pediatric Pain Medicine, April 2017.

Villacres-Mori B, Poon S, Merwin S, Ahn S, **Kars M**. Reducing Opioid-Induced Hyperalgesia after Scoliosis Repair: Fentanyl vs Remifentanil. Presented to the American Society of Regional Anesthesia and Pain Medicine Annual Meeting, April 2017.

Orner G, **Kars M**, Hagen J. Perioperative Truncal Blockade in Preterm Infants < 5 kg. Presented to the American Society of Regional Anesthesia and Pain Medicine Annual Meeting, April 2017.

Toor J, **Kars M**. Medical Marijuana and the Discontinuation of Opioids in a Patient with Neuropathic Chronic Pain. Presented to the American Society of Regional Anesthesia and Pain Medicine Annual Meeting, April 2017.

Jakinovich P, **Kars M**, Hagen J, Barnett N. Ultrasound-guided Quadratus Lumborum Block for Children Undergoing Pyeloplasty: An Effective Modality for Postoperative Pain Control. Presented to the American Society of Regional Anesthesia and Pain Medicine Annual Meeting, April 2017.

Hameed A, **Kars M**. Chiari Malformation Type 1 and Pain Management of Chronic Headache: A Literature Review. Presented to the American Society of Regional Anesthesia and Pain Medicine Annual Meeting, April 2017.

Bebic Z, Hagen J, **Kars M**. Quadratus Lumborum Block: A Novel Use for Pediatric Hip Procedures. Presented to the American Society of Regional Anesthesia and Pain Medicine Annual Meeting, April 2017.

Boroda N, Malesinska M, **Kars MS**, Smith LP. The Use of Laryngeal Mask Airway for Adenoidectomy. Presented to SENTAC 2017 Annual Meeting, November 2017.

Greenberg M, **Kars MS**. Quadratus Lumborum Block in Adolescent with Mast Cell Activation Syndrome for Right Hip IM Nail: A Case Report. Presented to American Society of Regional Anesthesia and Pain Medicine, Pain Conference, November 2017.

Saks A, **Kars MS**. Case Report: Pre and Perioperative Considerations in a Patient with Cold Induced Anaphylaxis and Recently Diagnosed Hereditary Angioedema. Presented to the 71st Postgraduate Assembly in Anesthesiology, December 2017.

Devlin C, **Kars MS**. Scoliosis repair in a child with mitochondrial DNA depletion syndrome and history of treatment of malignant hyperthermia. Presented to the Society of Pediatric Anesthesia Winter Meeting, March 2018.

Deygoo J, **Kars MS**, Hagen J, Barnett N. Clonidine caudal combined with dexmedetomidine IV for awake incision and drainage of a septic knee in a 1 month old. Presented to the Society of Pediatric Anesthesia Winter Meeting, March 2018.

Liu Y, Barlow M, Barnett N, Hagen J, Lipskar A, **Kars MS**. Ultrasound guided quadratus lumborum bock for an opioid free CDH repair. Presented to the Society of Pediatric Anesthesia Winter Meeting, March 2018 and the American Society of Regional Anesthesia World Congress, April 2018.

Sidhu A, Maloney C, Kallis M, Lipskar A, Hagen J, Barnett N, **Kars MS**. Ultrasound guided Quadratus lumborum block (QLB) for laparoscopic inguinal hernia repair surgery in children: an opioid free alternative. Presented to the Society of Pediatric Anesthesia and Society for Pediatric Pain Medicine Winter Meeting, March 2018 and the American Society of Regional Anesthesia World Congress, April 2018.

Bunnell A, Barnett N, **Kars MS**, Hagen J. Intraoperative serratus anterior block for postoperative pain control after pediatric thoracotomy: a historical cohort study. Presented to the Society of Pediatric Anesthesia Winter Meeting, March 2018 and the American Society of Regional Anesthesia World Congress, April 2018.

Saks A, **Kars MS**, Hagen J, Morganstern B, Barnett N. Pudendal nerve blocks in pediatric urologic procedures. Presented to the Society of Pediatric Anesthesia Winter Meeting, March 2018 and the American Society of Regional Anesthesia World Congress, April 2018.

Bunnell A, Barnett N, **Kars MS**, Hagen J. Rectus sheath block in the extremes. Presented to the American Society of Regional Anesthesia World Congress, April 2018.

Orner G, **Kars MS**, Hagen J, Barnett N. "Double Trouble" Utilization of continuous adductor canal catheters in twin 5 year old obese females with blounts disease. Presented to the American Society of Regional Anesthesia World Congress, April 2018.

Deygoo J, Lipskar A, Hagen J, **Kars MS**, Barnett N. QL block for early extubation of 7 week infant after extensive abdominal procedures. Presented to the American Society of Regional Anesthesia World Congress, April 2018.

Saks A, **Kars MS.** Pre and perioperative considerations in a patient with cold-temperature induced anaphylaxis and hereditary angioedema. Presented to the International Anesthesia Research Society Annual Meeting, April 2018.

Saks A, **Kars MS.** Leiderman J. Laryngo-tracheo-esophageal clefts: should we be changing our management? Presented to the International Anesthesia Research Society Annual Meeting, April 2018.

Orner G, **Kars MS**, Hagen J, Barnett N. "Double Trouble" Utilization of continuous adductor canal catheters in twin 5 year old obese females with blounts disease. Presented to Northwell Academic Competition, June 2018.

Sidhu A, Maloney C, Kallis M, Lipskar A, Hagen J, Barnett N, **Kars MS**. Ultrasound guided Quadratus lumborum block (QLB) for laparoscopic inguinal hernia repair surgery in children: an opioid free alternative. Presented to Northwell Academic Competition, June 2018.

Toor J, **Kars MS**. Medical Marijuana and the Discontinuation of Opioids in a Patient with Neuropathic Chronic Pain. Presented to Northwell Academic Competition, June 2018.

Mongone J, Schneider S, **Kars MS**. Sphenopalantine ganglion block (SPG) in children: a case series. Presented to Anesthesiology 2018, San Francisco, California. October 2018.

Hagen J, Devlin C, Barnett N, Padover A, **Kars M**, Bebic Z. Erector spinae plane blocks for pediatric cardiothoracic surgeries. Presented to the Society of Pediatric Pain Medicine Annual Meeting, Houston, Texas. March 2019.

Hagen JG, Barnett N, **Kars MS**, Padover A, Bunnell AM. Rectus sheath blocks in the extremes of body habitus. Presented to the Society of Pediatric Pain Medicine Annual Meeting, Houston, Texas. March 2019.

O'Donnell B, Dowling O, **Kars MS**. Opioid Free Anesthetics in Pediatric Surgery. Presented to Society of Pediatric Pain Medicine Annual Meeting, Houston Texas. March 2019.

Sidhu A, Hanania M, Barnett M, Hagen J, **Kars MS**. Ultrasound guided Obturator Nerve Block in the Acute setting for Diagnosis and treatment of Spastic Diplegic hip pain. Presented to American Society of Regional Anesthesia and Pain Medicine, Las Vegas, Nevada, April 2019.

Rezai S, **Kars MS,** Freeman C. The use of Erector Spinae Plane Block as an Opioid-Sparing Technique in an Infant for TEF Repair. Presened to Anesthesiology 2019, Orlando, Florida, October 2019.

Zeltsman M, Freeman C, **Kars MS.** The role of Focus Assessment Transthoracic Echocardiography in an Obstetric Patient with a Ruptured Splenic Artery Aneurysm. Presented to Anesthesiology 2019, Orlando, Florida, October 2019.

Liao B, **Kars MS**, Hasan S, Galina K, Atlas A, Lo Y, Amaral A, Sarwahi S. Does a dedicated a "Scoliosis Team" and Surgical Standardization Improve Outcomes in Adolescent Idiopathic Scoliosis Surgery and is it Reproducible? Presented to the Society of Pediatric Pain Medicine and Society of Pediatric Anesthesia, Paradise Island, Bahamas, February 2020.

Liao B, **Kars MS**, Hasan S, Galina K, Atlas A, Lo Y, Amaral A, Sarwahi S. Rapid Recovery Pathway (RRP) Utilizing Intrathecal Morphine Decreases Overall Hospital Costs and Improves Quality of Care in Adolescent Idiopathic Scoliosis (AIS). Presented to the Society of Pediatric Pain Medicine and Society of Pediatric Anesthesia, Paradise Island, Bahamas, February 2020.

Kars, MS, Liao B, Hasan S, Galina K, Atlas A, Lo Y, Amaral A, Sarwahi S. Does implementation of 'Lean Management' in Scoliosis surgery improve patient outcomes? Presented to the Society of Pediatric Pain Medicine and Society of Pediatric Anesthesia, Paradise Island, Bahamas, February 2020.

Kars, MS, Liao B, Hasan S, Galina K, Atlas A, Lo Y, Amaral A, Sarwahi S. Can a Rapid Recovery Pathway with Micro-dose Intrathecal Morphine replace IVPCA in AIS Surgery. Presented to the Society of Pediatric Pain Medicine and Society of Pediatric Anesthesia, Paradise Island, Bahamas, February 2020.

Kars MS, Morad-Gomez A, Haskins S, Boublik J. "Pediatric Point of Care Ultrasound: A Narrative Review. Abstract accepted to the American Society of Regional Anesthesia Annual Meeting, April 2020.

Hasan S**, Kars, MS**, Liao B, Galina K, Atlas A, Lo Y, Amaral A, Sarwahi S. Zero Patient-Controlled Analgesia (PCA) is an achievable target for postoperative rapid recovery management of AIS patients. Accepted to the American Academy of Pediatrics Virtual Meeting, October 2020.

Hasan S**, Kars, MS**, Liao B, Galina K, Atlas A, Lo Y, Amaral A, Sarwahi S. Rapid Recovery Pathway (RRP) Utilizing Intrathecal Morphine Decreases Overall Hospital Costs and Improves Quality of Care in Adolescent Idiopathic Scoliosis (AIS). Podium Presentation, American Academy of Pediatrics National Conference. October 2021

Sarwahi S. Hasan S, Boucas P, Visahan **Kars, MS**, Dimauro JP, Amaral A, Liao B, Comparison of Preoperative Versus Postincisional Intrathecal Morphine on Clinical Outcomes in Adolescent Idiopathic Scoliosis. Presented to 30th Internation Meeting on Advanced Spine Techniques, Dublin, Ireland, March 2023

Sarwahi S. Hasan S, Boucas P, Visahan **Kars, MS**, Dimauro JP, Amaral A, Liao B,. Rapid Recovery Pathway (RRP) Utilizing Intrathecal Morphine Decreases Overall Hospital Costs and Improves Quality of Care in Adolescent Idiopathic Scoliosis (AIS). Presented to 30th Internation Meeting on Advanced Spine Techniques, Dublin, Ireland, March 2023

Mustatova D, Moschinsky, A, **Kars, MS.** RSB vs QLB Face-Off: Is there a *better* block for laparoscopic inguinal hernia repair in children. Presented to the Society for Pediatric Pain Medicine (SPPM), Anaheim, CA, April 2024.

Crush, M. Cisney, E. McCabe, M., Shutkind, K, Ruggiero, A. Stevens, B, **Kars MS**. Cryoablation plus pre-incision regional block: Optimizing postoperative pain management for pectus excavatum repair. Presented to the Society for Pediatric Pain Medicine (SPPM), Anaheim, CA, April 2024.

Crush, M. Cisney, E. McCabe, M., Shutkind, K, Ruggiero, A. Stevens, B, **Kars MS**. Cryoablation plus pre-incision regional block: Optimizing postoperative pain management for pectus excavatum repair. Presented to the Post-graduate assembly for Anesthesia, New York, NY, December 2024.

Fitzpatrick CM, Lipskar A, **Kars MS**, Nolan T, Mottley S, Stagg K, Brathwaite C, Libraro K, Guevara J, Glick R, Prince J. Implementation of a tiered operating room classification system for pediatric emergency and urgent cases improves access to surgical care. Presented at: ACS Quality and Safety Conference; July 2025; San Diego, CA.

Sarwahi S. Hasan S, Boucas P, Visahan **Kars, MS**, Dimauro JP, Amaral A, Liao B,. Utilizing Intrathecal Morphine in Rapid Recovery Pathway Protocol for Economic Benefit *accepted to the American Academy of Orthopaedic Surgeons 2026 Annual Meeting, March 2026*

Sarwahi S. Hasan S, Boucas P, Visahan **Kars, MS**, Dimauro JP, Amaral A, Liao B,. Determining Optimal Timing of Administration of Intrathecal Morphine Injection During Posterior Spinal Fusion *accepted to the American Academy of Orthopaedic Surgeons 2026 Annual Meeting, March 2026*