



Jessica Brodt

Clinical Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

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Bio

BIO

Dr. Brodt is a Clinical Associate Professor at Stanford University, engaged in clinical care, teaching and research in cardiothoracic anesthesiology.

Dr. Brodt has served on the SCA Board of Directors, founded the SCA Regional Anesthesia for Cardiothoracic Enhanced Recovery (RACER) Special Interest Group, and has had multiple roles in committees and task forces since attending her first SCA Annual Meeting and Thoracic Symposium in 2013.

Dr Brodt has passion and scientific curiosity in a wide variety of clinical and research topics related to cardiovascular anesthesia and recovery, stemming from a drive to find effective, accurate and safe monitoring and analgesia for cardiac surgery patients. Dr. Brodt teaches on regional anesthesia for cardiac surgery, perioperative opioid use, enhanced recovery, echocardiography and other topics in cardiac anesthesia locally (to residents and fellows) and at meetings including the SCA, ASA and EACTAIC, has written multiple book chapters, and has contributed to multiple inter-society manuscripts including with the POQI and AHA.

Dr. Brodt is a strong advocate for work-life harmony, and outside of work is a proud mum of four humans, two fur babies and many thousands of bees.

CLINICAL FOCUS

- Regional analgesia for cardiac surgery
- Fast Track Cardiac Surgery
- Anesthesia for transcatheter and electrophysiology procedures
- Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Rotation Director, Stanford Resident Cardiac Anesthesia Rotation, (2017-2020)
- Professional Practice Evaluation Committee, Stanford University, (2015- present)
- Clerkship Director, Stanford Hospital Cardiac Anesthesiology Clerkship, (2015-2018)

HONORS AND AWARDS

- Chief Resident, University of Miami, Department of Anesthesia (2011-2012)
- Emmanuel M Papper Memorial Award, University of Miami (June 2012)
- Best Clinical Pearl, Oral Presentation, SCA Thoracic Symposium (April 2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board of Directors, Society of Cardiothoracic Anesthesiologists (2020 - present)
- International Committee, Society of Cardiothoracic Anesthesiologists (2017 - 2021)
- Online Education Subcommittee, Society of Cardiothoracic Anesthesiologists (2021 - present)
- Founding Chair, RACER SIG, Society of Cardiothoracic Anesthesiologists (2020 - 2020)
- Member, American Society of Anesthesiologists
- Member, Society of Cardiovascular Anesthesiologists
- Member, International Anesthesia Research Society
- Member, California Society of Anesthesiologists

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Osteopathic Board of Anesthesiology (2013)
- Board Certification: Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography (2014)
- Fellowship: University of Miami (2013) FL
- Residency: University of Miami (2012) FL
- Internship: University of Miami (2009) FL
- Medical Education: University of Sydney Medical School (2007) Australia
- Fellowship, University of Miami , Cardiothoracic anesthesia (ACTA) (2013)
- Residency, University of Miami , Anesthesiology (2012)
- Diplomate, National Board of Echocardiography , Advanced Perioperative Transesophageal Echocardiography (2013)
- Board Certification, American Board of Anesthesiology , Anesthesia (2013)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Clinical Education

Regional Anesthesia for Cardiothoracic Enhanced Recovery (RACER)

Anesthesia for transcatheter and electrophysiology procedures

CLINICAL TRIALS

- Regional Anesthesia for Cardiothoracic Enhanced Recovery, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiac Anesthesia (Fellowship Program)

Publications

PUBLICATIONS

- **A Prospective Randomized Placebo Controlled Trial of Erector Spinae Plane Catheters in Cardiac Surgery Patients: Cytokine Profiles and Pain Outcomes**
Baca, Q., Brodt, J., Nasiri, M., Kasimova, K., Tsui, B.
LIPPINCOTT WILLIAMS & WILKINS.2024: 2296-2297
- **Commentator Discussion: Multimodal analgesia with parasternal plane block protocol within an enhanced recovery after cardiac surgery program decreases opioid use** *JTCVS OPEN*
Kindo, M., Brodt, J.
2024; 22: 36-37
- **Practice Advisory for Postoperative Pain Management of Cardiac Surgical Patients: Executive Summary. A Report From the Society of Cardiovascular Anesthesiologists.** *Journal of cardiothoracic and vascular anesthesia*
Makkad, B., Heinke, T. L., Sherifdeen, R., Meng, M. L., Kachulis, B., Grant, M. C., Popescu, W. M., Brodt, J. L., Khatib, D., Wu, C. L., Kertai, M. D., Bollen, B. A.
2024
- **ERAS/STS 2024 Expert Consensus Statement on Perioperative Care in Cardiac Surgery: Continuing the Evolution of Optimized Patient Care and Recovery.** *Journal of cardiothoracic and vascular anesthesia*
Gregory, A., Ender, J., Shaw, A. D., Denault, A., Ibekwe, S., Stoppe, C., Alli, A., Manning, M. W., Brodt, J. L., Galhardo, C., Sander, M., Zarbock, A., Fletcher, et al
2024
- **In Response.** *Anesthesia and analgesia*
Makkad, B., Heinke, T. L., Sherifdeen, R., Khatib, D., Brodt, J. L., Meng, M. L., Grant, M. C., Kachulis, B., Popescu, W. M., Wu, C. L., Bollen, B. A.
2023; 137 (6): e52-e53
- **Practice Advisory for Preoperative and Intraoperative Pain Management of Cardiac Surgical Patients: Part 2.** *Anesthesia and analgesia*
Makkad, B., Heinke, T. L., Sherifdeen, R., Khatib, D., Brodt, J. L., Meng, M. L., Grant, M. C., Kachulis, B., Popescu, W. M., Wu, C. L., Bollen, B. A.
2023; 137 (1): 26-47
- **Practice Advisory for Preoperative and Intraoperative Pain Management of Thoracic Surgical Patients: Part 1.** *Anesthesia and analgesia*
Makkad, B., Heinke, T. L., Sherifdeen, R., Khatib, D., Brodt, J. L., Meng, M. L., Grant, M. C., Kachulis, B., Popescu, W. M., Wu, C. L., Bollen, B. A.
2023
- **Pain management and opioid stewardship in adult cardiac surgery: Joint consensus report of the PeriOperative Quality Initiative and the Enhanced Recovery After Surgery Cardiac Society.** *The Journal of thoracic and cardiovascular surgery*
Grant, M. C., Chappell, D., Gan, T. J., Manning, M. W., Miller, T. E., Brodt, J. L.
2023
- **An Expert Review of Chest Wall Fascial Plane Blocks for Cardiac Surgery.** *Journal of cardiothoracic and vascular anesthesia*
Hargrave, J., Grant, M. C., Kolarczyk, L., Kelava, M., Williams, T., Brodt, J., Neelankavil, J. P.
2022
- **Erector spinae plane blocks for cardiac surgery: Are we comparing apples to oranges?** *Journal of cardiac surgery*
Bodmer, N. J., Brodt, J. L., Neuburger, P. J.
2022
- **Buprenorphine and Cardiac Surgery: Navigating the Challenges of Pain Management.** *Journal of cardiothoracic and vascular anesthesia*
Fernando, R. J., Graulein, D., Hamzi, R. I., Augoustides, J. G., Khalil, S., Sanders, J., Sibai, N., Hong, T. S., Kiwakyou, L. M., Brodt, J. L.
2022

- **Continuous Serratus Anterior Plane Block: A Team Approach** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Kim, R. K., Brodt, J., MacArthur, J. W., Tsui, B. C. H.
2022; 36 (4): 1217-+
- **Perceptions of Gender Disparities Among Women in Cardiothoracic Anesthesiology.** *Journal of cardiothoracic and vascular anesthesia*
Methangkool, E., Brodt, J., Kolarczyk, L., Ivascu, N. S., Hicks, M. H., Herrera, E., Oakes, D.
1800
- **Beyond the ventilator-cardiovascular management in SARS-CoV-2 infection** *INDIAN JOURNAL OF RESPIRATORY CARE*
Kloosterboer, A. L., Vogelsong, M. A., Brodt, J. L.
2021; 10: 43-49
- **Benefits, Risks, and Challenges of Incisional Analgesia in Pediatric Cardiac Anesthesia.** *Journal of cardiothoracic and vascular anesthesia*
Brodt, J. L., Tsui, B. C.
2021
- **Alternating Side Programmed Intermittent Repeated (ASPIRe) Bolus Regimen for Delivering Local Anesthetic via Bilateral Interfascial Plane Catheters.** *Journal of cardiothoracic and vascular anesthesia*
Tsui, B. C., Brodt, J., Pan, S., Caruso, T. J., Kim, R., Horn, J. L., Boublik, J., Tsui, J. H.
2021
- **Comparison of Postoperative Pain From Catheter Over the Needle (CON) Versus Catheter Through Needle (CTN) Techniques for Erector Spinae Plane Blockade in Patients Undergoing Open Heart Surgery: A Single-Center Retrospective Review.** *Journal of cardiothoracic and vascular anesthesia*
Pfaff, K., Brodt, J., Basireddy, S., Boyd, J., Boublik, J., Horn, J., Tsui, B. C.
2020
- **Opioid-Free Ultra-Fast-Track On-Pump Coronary Artery Bypass Grafting Using Erector Spinae Plane Catheters** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Chanowski, E. J. P., Horn, J., Boyd, J. H., Tsui, B. C. H., Brodt, J. L.
2019; 33 (7): 1988–90
- **Cerebral Oximetry Fails as a Monitor of Brain Perfusion in Cardiac Surgery: A Case Report** *A & A PRACTICE*
McAvoy, J., Jaffe, R., Brock-Utne, J., Lopez, J., Brodt, J.
2019; 12 (12): 441–43
- **Case Report of an Awake Craniotomy in a Patient With Eisenmenger Syndrome.** *A&A practice*
Heifets, B. D., Crawford, E., Jackson, E., Brodt, J., Jaffe, R. A., Burbridge, M. A.
2018; 10 (9): 219-222
- **Where the Cath Lab and the Pump Room Meet: Anesthesia for Hybrid Procedures.** *International anesthesiology clinics*
Brodt, J. L.
2018; 56 (4): 64–73
- **Changes in cerebral oxygen saturation during transcatheter aortic valve replacement.** *Journal of clinical monitoring and computing*
Brodt, J., Vladinov, G., Castillo-Pedraza, C., Cooper, L., Maratea, E.
2016; 30 (5): 649-653
- **Perioperative management of patients with left ventricular assist devices undergoing noncardiac surgery.** *Annals of cardiac anaesthesia*
Degnan, M., Brodt, J., Rodriguez-Blanco, Y.
2016; 19 (4): 676-686
- **Ventriculoperitoneal Shunt Insertion Under Monitored Anesthesia Care in a Patient With Severe Pulmonary Hypertension. A & A case reports**
Burbridge, M. A., Brodt, J., Jaffe, R. A.
2016; 7 (2): 27-29
- **Scleroderma and pulmonary hypertension complicating two pregnancies: use of neuraxial anesthesia, general anesthesia, epoprostenol and a multidisciplinary approach for cesarean delivery** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Moaveni, D., Cohn, J., BRODT, J., HECTOR, K., RANASINGHE, J.

2015; 24 (4): 375-387

● **Orbital Compartment Syndrome Following Extracorporeal Support** *JOURNAL OF CARDIAC SURGERY*

Brodt, J., Gologorsky, D., Walter, S., Pham, S. M., Gologorsky, E.

2013; 28 (5): 522-524

● **Subclavian Vein Catheterization, Chapter 3** *Anesthesia Unplugged*

Brodt, J., Diez, C.

McGraw-Hill Professional.2012; 2

● **The omega-atracotoxins: Selective blockers of insect M-LVA and HVA calcium channels** *BIOCHEMICAL PHARMACOLOGY*

Chong, Y., Hayes, J. L., Sollod, B., Wen, S., Wilson, D. T., Hains, P. G., Hodgson, W. C., Broady, K. W., King, G. F., Nicholson, G. M.

2007; 74 (4): 623-638

PRESENTATIONS

- Pulmonary separation and differential lung ventilation in management of severe intraoperative reexpansion pulmonary edema - Society of Cardiovascular Anesthesiologists, Thoracic Symposium (April 2013)
- Cerebral oxygenation during transcatheter aortic valve implantation - American Society of Anesthesiologists (10/2012)
- Perioperative discovery and management of HCM in the setting of emergency laparoscopic surgery - American Society of Anesthesiologists (October 2012)
- Sudden cardiac arrest in the OR: unmasking prolonged QT during a craniotomy - American Society of Anesthesiologists (October 2012)
- Management of post-infarction ventricular septal defect closure complicated by acidosis, hypoxemia and cardiogenic shock - American Society of Anesthesiologists (October 2011)
- Choice of intubation technique in facial trauma patients - American Society of Anesthesiologists (October 2011)
- Severe intraoperative thromboembolism during manipulation of a long bone fracture - American Society of Anesthesiologists (October 2011)
- Postoperative cognitive dysfunction - Gulf Atlantic Anesthesiology Residents Conference (April 2011)