



Anna Maria Bombardieri

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICES

- **Anesthesia**

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Bio

BIO

Anna Maria Bombardieri, MD, PhD is an Anesthesiologist who specializes in Regional Anesthesiology.

She completed her residency training and PhD at the University of Florence.

She completed a fellowship in Regional Anesthesia and Acute Pain Medicine at the Hospital for Special Surgery in New York and a Critical Care Medicine fellowship at Université Libre de Bruxelles, in Belgium.

She was faculty in the Department of Anesthesiology at the Université Sophia Antipolis in Nice, France, and at Washington University School of Medicine in St. Louis before joining the department of Anesthesiology at Stanford.

CLINICAL FOCUS

- Anesthesia
- Regional Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Best Poster Award, European Society of Neurosonology and Cerebral Hemodynamics (2013)
- Charles L. Christian Award for Excellence in Musculoskeletal Research, Hospital for Special Surgery, NY (2012)
- Award for Academic Excellence, Hospital for Special Surgery, NY (2012)
- Resident Research Contest Award, Post Graduate Assembly in Anesthesiology, NY (2011)

PROFESSIONAL EDUCATION

- Fellowship: University Libre De Bruxelles (2014) Belgium
- PhD, University of Florence School of Medicine, Anesthesiology, Italy (2013)

- Fellowship: Hospital for Special Surgery Anesthesia Fellowships (2012) NY
- Fellowship, Hospital for Special Surgery, Research , NY (2011)
- Board Certification: Anesthesiology, University of Florence (2009)
- Residency: University of Florence (2009) Italy
- Medical Education: University of Rome "La Sapienza" (2005)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My overall research goal is to advance clinical practice by providing anesthesiologists with data to most effectively maintain cerebral blood flow during surgery.

I intend to combine the tools of pharmacology (specifically, dose and concentration vs. cerebral blood flow response, and models of drug interaction) to understand the relationship between vasopressor selection, vasopressor dose, and cerebral blood flow.

A secondary goal is to apply this new knowledge to investigate whether target defined maintenance of cerebral blood flow intraoperatively improves long term neurological outcomes and reduces complications, such as delirium and post-operative cognitive dysfunction.

CLINICAL TRIALS

- Cerebral Blood Flow Evaluation With Transcranial Doppler After Interscalene Nerve Block, Not Recruiting

Publications

PUBLICATIONS

- **Practical Training of Anesthesia Clinicians in Electroencephalogram-Based Determination of Hypnotic Depth of General Anesthesia.** *Anesthesia and analgesia*
Bombardieri, A. M., Wildes, T. S., Stevens, T. n., Wolfson, M. n., Steinhorn, R. n., Ben Abdallah, A. n., Sleigh, J. n., Avidan, M. S.
2020; 130 (3): 777–86
- **Intraoperative Awareness With Recall: A Descriptive, Survey-Based, Cohort Study.** *Anesthesia and analgesia*
Bombardieri, A. M., Mathur, S. n., Soares, A. n., Sharma, A. n., Ben Abdallah, A. n., Wildes, T. S., Avidan, M. S.
2019; 129 (5): 1291–97
- **A comparison of two different concentrations and infusion rates of ropivacaine in perineural infusion administered at the same total dose for analgesia after foot and ankle surgery: a randomized, double blinded, controlled study.** *Minerva anestesologica*
Bombardieri, A. M., Maalouf, D. B., Kahn, R. L., Ma, Y. n., Bae, J. J., Wukovits, B. n., Lee, A. n., Jules-Elysee, K. M., De Gaudio, A. R., Liguori, G. A.
2019; 85 (2): 139–47
- **An Observational Study of Cerebral Blood Flow Velocity Evaluation in the Prone Position During Posterior Lumbar Surgery.** *Anesthesia and analgesia*
Bombardieri, A. M., Beckman, J. n., Urban, M. n., Go, G. n., De Gaudio, A. R., Girardi, F. P., Ma, Y. n., Memtsoudis, S. G.
2019; 129 (2): 487–92
- **An Observational Study of Cerebral Blood Flow Velocity During Hypotensive Epidural Anesthesia.** *Anesthesia and analgesia*
Bombardieri, A. M., Sharrock, N. E., Ma, Y. n., Go, G. n., Drummond, J. C.
2016; 122 (1): 226–33
- **Does limb preconditioning reduce pain after total knee arthroplasty? A randomized, double-blind study.** *Clinical orthopaedics and related research*
Memtsoudis, S. G., Stundner, O. n., Yoo, D. n., Gonzalez Della Valle, A. n., Boettner, F. n., Bombardieri, A. M., Jules-Elysee, K. n., Poultsides, L. n., Ma, Y. n., Sculco, T. P.
2014; 472 (5): 1467–74
- **Pulmonary circulatory changes after bilateral total knee arthroplasty during regional anesthesia.** *Journal of clinical anesthesia*
Bombardieri, A. M., Memtsoudis, S. G., Go, G. n., Ma, Y. n., Sculco, T. n., Sharrock, N. n.
2013; 25 (1): 4–8
- **The effect of low versus high tidal volume ventilation on inflammatory markers in healthy individuals undergoing posterior spine fusion in the prone position: a randomized controlled trial.** *Journal of clinical anesthesia*

Memtsoudis, S. G., Bombardieri, A. M., Ma, Y. n., Girardi, F. P.
2012; 24 (4): 263–69

- **Comparative utility of centrally versus peripherally transduced venous pressure monitoring in the perioperative period in spine surgery patients.** *Journal of clinical anesthesia*

Bombardieri, A. M., Beckman, J. n., Shaw, P. n., Girardi, F. P., Ma, Y. n., Memtsoudis, S. G.
2012; 24 (7): 542–48

- **Mortality of patients with respiratory insufficiency and adult respiratory distress syndrome after surgery: the obesity paradox.** *Journal of intensive care medicine*

Memtsoudis, S. G., Bombardieri, A. M., Ma, Y. n., Walz, J. M., Chiu, Y. L., Mazumdar, M. n.
2011; 27 (5): 306–11