

PERIOPERATIVE FELLOWSHIP IN QUALITY AND SAFETY

Overview and Fellowship Goals

This unique 2-year clinical non-ACGME post-graduate fellowship program in Perioperative Quality and Safety combines formal training through Harvard Medical School, deep immersion in organizational operations at BIDMC and a highly productive research program. Successful candidates will be enrolled in a **fully funded 2-year integrated program**, culminating in a [Master of Healthcare Quality and Safety \(MHQS\) degree](#) from Harvard University. The fellowship program commences on July 1st and runs for 2 full years. The program is designed to help clinicians improve patient safety and health care quality in an increasingly complex and evolving health care environment.

On completion of the fellowship program, you will be able to:

- ❖ Drive strategic change and foster a culture of quality and safety
- ❖ Generate data-driven solutions to address operational challenges
- ❖ Measure, interpret and communicate meaningful health care outcomes
- ❖ Identify quality and safety gaps and develop strategies to address them
- ❖ Use data to support rational and evidence-based improvements
- ❖ Develop and implement quality improvement initiatives within a tight budget
- ❖ Assess and improve health care processes through evidence-based best practices
- ❖ Identify, design, and implement malpractice prevention and intervention strategies

Eligibility/How to Apply/Contact Information

The fellowship program accepts up to two fellows a year, and we welcome both US-trained and foreign-trained candidates. Additionally, we also welcome attending (consultant) anesthesiologists who wish to pursue the MHQS program while employed part-time at BIDMC. All prospective candidates are strongly encouraged to directly contact the Program Director [Dr. Satya Krishna Ramachandran](#) for more information.

Essential criteria for all applicants:

- ❖ Successful completion of postgraduate training in Anesthesiology including evidence of successful board certification
- ❖ Full registration on the State or National Medical Register (including entry on the specialist register)
- ❖ Confirmation of current and ongoing employment
- ❖ At least 5 years of post-MD anesthesia training or higher
- ❖ ECFMG certification: The Step 1, Step 2 CK&CS must be mandatorily completed for limited licensing
- ❖ Submit your [initial application here](#) for July start. International applicants are instructed to send in their applications as early as possible

Desirable criteria:

- ❖ All three USMLE steps completed
- ❖ A track record of excellent clinical care attributes and organizational citizenship
- ❖ Evidence of interest in quality and safety
- ❖ Higher academic degrees that indicate intent and ability to excel in academically rigorous environments

Candidates from England who wish to apply through the Royal College of Anaesthetists, please [follow this link](#) for more information on the SALG-BIDMC Scholar program

Create a single PDF with the following documents and email the [program director](#) for the fellowship:

- ❖ A cover letter that expands on why we should consider you for this program, why you are interested in working at BIDMC and what you hope to achieve during your fellowship.
- ❖ Updated CV
- ❖ Reference letters from 3 sources and contact information for each source

Rotations and Schedule

The clinical rotations are fully coordinated with the [academic schedule](#) of the 2-year MHQS program

- ❖ On average, fellows can expect to work 20-25 hours a week during the 'term time' of their MHQS program.
- ❖ Fellows will resume 100% clinical work during weeks when the MHQS course is in recess
- ❖ Fellows can expect to take long days (late call) once a week, and dayshifts for both weekend days 6-12 times a year.
- ❖ The appointment does not stipulate specific anesthesia or surgical specialty case-mix, and it is anticipated that the successful applicants will be exposed to a wide variety of anesthetic care within BIDMC.

Curriculum and Didactics

The [curriculum for the fellowship](#) follows the two-year MHQS program from Harvard University. Successful candidates will have protected time to participate in didactics at Harvard Medical School, which is walking distance from BIDMC.

The key benefits of this program are:

- ❖ The curriculum is designed to accelerate your ascent to a leadership role focused on health care quality and safety
- ❖ Distinguished faculty who are recognized leaders in some of the nation's most prestigious health care systems
- ❖ A learning model that combines concrete theory with applied learning
- ❖ An accomplished community of professional peers that you can call upon long after the program ends
- ❖ A capstone project that is aligned with your goals and interests plus one-on-one mentoring
- ❖ The carefully designed curriculum that focuses on all operational aspects of health care quality and safety
- ❖ Exposure to best practices within the Harvard network of hospitals, including Massachusetts General Hospital, Brigham and Women's Hospital, Boston Children's Hospital, Beth Israel Deaconess Medical Center and Dana-Farber Cancer Institute

Fellows will be trained as a [Simulation Instructor](#) through the world-renowned [Center for Medical Simulation](#)

Fellows are also coached and mentored to apply these skills operationally and engage in various implementation projects. Our aim is to maximize your ability to execute change in healthcare quality and safety from the day they complete their fellowship training

Examples projects and programs are:

- ❖ M&M review: fellows help guide faculty and residents in delivering their presentations
- ❖ Resident RCA faculty: help guide residents in learning and performing an RCA
- ❖ Implementation of a debriefing framework after major adverse events in the OR
- ❖ OR efficiency
- ❖ In-situ team training for emergency manual implementation
- ❖ Running large multidisciplinary team training events
- ❖ Greening the OR

Research and Other Opportunities

Fellows are fully integrated into the Quality & Safety and Outcomes Research Labs that leverage the rich data resources in an academic environment that sets them up for success. Under the mentorship of [Prof. Krish Ramachandran](#), you will be engaged in operationally relevant investigations using high-end research methodology

Publications in 2020 (fellows names bolded)

- ❖ Li Y, Ciampa EJ, **Zucco L**, **Levy N**, et al. Adaptation of an obstetric anesthesia service for the SARS-CoV-2 pandemic: description of checklists, workflows, and development tools. *Anesth Analg*. 2020 [Epub ahead of print](#)
- ❖ **Levy N**, **Zucco L**, Ehrlichman RJ, et al. Development of Rapid Response Capabilities in a Large COVID-19 Alternate Care Site Using Failure Modes and Effect Analysis with In-Situ Simulation. *Anesthesiology*. 2020 [Epub ahead of print](#)
- ❖ **Zucco L**, Santer P, **Levy N**, et al. A comparison of postoperative respiratory complications associated with the use of desflurane and sevoflurane: a single centre cohort study. *Anaesthesia*. 2020 [Epub ahead of print](#)
- ❖ Feuerstein JD, **Levy N**, **Zucco L**, et al. Management of a COVID-19 patient in the endoscopy suite. *VideoGIE*. 2020 May [8;5:327-330](#)
- ❖ **Zucco L**, **Levy N**, Ketchandji D, Aziz M, Ramachandran SK. Perioperative Considerations for COVID-19 Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2). [Anesthesia Patient Safety Foundation Online Article](#)

Education materials

- ❖ Our fellows developed and published the [training materials](#) our hospital uses for COVID preparedness, including the simulated videos. These are available for free-online-access

Awards in 2020

- ❖ Oral and ePoster Presentation: SALG Patient Safety Conference, UK 2020, Joint 1st prize
- ❖ "Concise Out of operatiNg room Interprofessional in-Situ Exercises (CONcISE)": Implementation of a Novel Program and Impact of Drill Frequency on Critical Measures of Patient Safety. CRICO RMF Grant \$200,000

Current Fellows

Learn from our fellows' experiences: Read more about our program and [how it has influenced them](#)