

### **Mission Statement:**

The AI Taskforce in Cardiovascular Anesthesia is committed to advancing the practice of thoracic and cardiovascular anesthesiology through the strategic integration of artificial intelligence. Our mission is to enhance patient outcomes, personalize treatment, and support clinical decision-making by developing and implementing AI-driven tools that are grounded in robust data, ethical considerations, and clinical expertise. We aim to bridge the gap between emerging AI technologies and their practical application in anesthesia, ensuring that these innovations enhance, rather than replace, the critical judgment of healthcare professionals. Through collaboration, education, and ongoing research, we strive to overcome the challenges of AI in anesthesiology and pave the way for a future where technology and human expertise work in harmony to deliver superior patient care.

Members interested in applying to this task force may do so through the Call for Volunteers, open October 1 – 31, 2024.

Qualifications and criteria for task-force applicants:

#### **1. Clinical Expertise**

- **Board-Certified Cardiovascular Anesthesiologist:** Candidates should be board-certified in anesthesiology with subspecialty expertise in cardiovascular anesthesia.

- **Experience in Perioperative Medicine:** Extensive experience in managing perioperative care, with a focus on high-risk cardiovascular patients.
- **Knowledge of Clinical Workflow:** Deep understanding of the clinical workflows in cardiovascular anesthesia, including decision-making processes and patient management.

## 2. Research and Innovation

- **Experience in AI/ML Research:** Involvement in research related to artificial intelligence or machine learning desirable, particularly in healthcare applications.
- **Publication Record:** A record of peer-reviewed publications in relevant fields, such as anesthesiology, AI in healthcare, or biomedical engineering.
- **Grant Funding:** Previous success in obtaining research funding would be an asset but not required, particularly for projects involving AI or technology in medicine.

## 3. Technical Proficiency

- **Understanding of AI/ML Concepts:** Knowledge of AI/ML concepts, data analysis, and statistical methods, with the ability to engage in technical discussions with data scientists.
- **Experience with Clinical Decision Support Systems:** Familiarity with the development, implementation, or use of AI-driven clinical decision support tools.

- *Data Management Skills:* Knowledge of data collection, management, and interpretation, particularly in the context of electronic health records (EHRs) and large datasets.

#### 4. Ethical and Regulatory Knowledge

- *Familiarity with Healthcare Regulations:* Understanding of healthcare regulations, including those related to data privacy, security, and the ethical use of AI in clinical settings.
- *Ethical Considerations:* Awareness of the ethical implications of AI in healthcare, particularly issues related to bias, transparency, and the physician-patient relationship.

#### 5. Educational and Training Experience

- *Teaching Experience:* Experience in teaching or training others, particularly in the areas of AI, technology in healthcare, or advanced anesthesiology practices.
- *Commitment to Ongoing Education:* Commitment to staying updated on the latest advancements in AI and healthcare technology, and to disseminating this knowledge within the task force.

#### 6. Vision and Innovation

- *Forward-Thinking Attitude:* A vision for the future of AI in cardiovascular anesthesia and a passion for driving innovation in this field.

- *Problem-Solving Skills: Strong analytical and problem-solving skills, with the ability to identify and address potential challenges in the integration of AI into clinical practice.*