



Children's National.

Children's National Pediatric Anesthesiology Grand Rounds



# The Emerging Role of AI and Digital Health in Perioperative Medicine

Jesse Ehrenfeld, MD, MPH

Dr. Jesse M. Ehrenfeld [Air-en-feld], is the president of the American Medical Association. He is also a senior associate dean, tenured professor of anesthesiology and director of Wisconsin's largest statewide public health philanthropy organization, the "Advancing a Healthier Wisconsin Endowment" at the Medical College of Wisconsin. Upon his inauguration, Dr. Ehrenfeld made AMA history as the first openly gay president of the organization. For more than two decades, Dr. Ehrenfeld has advocated on behalf of lesbian, gay, bisexual, transgender and queer individuals. In 2018, in recognition of his outstanding research contributions, he received the inaugural Sexual and Gender Minority Research Investigator Award from the director of the National Institute of Health. Board certified in both anesthesiology and clinical informatics, Dr. Ehrenfeld divides his time among clinical practice, teaching, research and directing a \$560-million statewide health philanthropy. His research—focused on how digital technology can improve surgical safety, patient outcomes, and health equity—has been funded by the National Institutes of Health, the Department of Defense, the Anesthesia Patient Safety Foundation, the Foundation for Anesthesia Education and Research, and the Robert Wood Johnson Foundation. Dr. Ehrenfeld also is a combat veteran who deployed to Afghanistan during both Operation Enduring Freedom and Resolute Support Mission. Dr. Ehrenfeld, was recognized in 2015 with a White House News Photographers Association award and an Emmy nomination for his video work supporting the lives of LGBTQ+ people. Dr. Ehrenfeld's long commitment to improving health outcomes for the LGBTQ+ community and to advancing health equity, as well as his testimony before the U.S. House Armed Services Committee in favor of lifting the ban on transgender service members—earned him special recognition from the Gay and Lesbian Medical Association in 2018. Dr. Ehrenfeld and his husband, Judd Taback, live in the Milwaukee area and have two sons, Ethan and Asher.

May 30, 2024

7:00am – 8:00am

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**HOPKOP** to  
**703.260.9391**

## Target audience:

Anesthesiologists, Fellows, Residents and Nurses

## Learning objectives:

- Explain the fundamental concepts of artificial intelligence (AI) in the context of anesthesia, including machine learning techniques and their applications in optimizing patient monitoring and drug administration.
- Evaluate the benefits and challenges of integrating AI technologies into anesthesia practice, recognizing how AI-driven decision support systems can enhance patient safety, improve clinical outcomes, and enhance the efficiency of anesthesia care teams.
- Discuss ethical and regulatory considerations associated with the use of AI in anesthesia, considering issues such as data privacy, transparency, accountability, and the role of healthcare professionals in maintaining control and oversight over AI-assisted procedures in the operating room.

**Accreditation:** This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Medical Society of Virginia (MSV) through the joint providership of Inova Office of Continuing Medical Education and Children's National Medical Center. The Inova Office Continuing Medical Education is accredited by the Medical Society of Virginia to provide continuing education for physicians.

**Credit designation:** The Inova Office of Continuing Medical Education designates this live educational activity for a maximum of 1.0 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity. Physicians may claim up to 1.0 credit in Type 1 CME on the Virginia Board of Medicine Continued Competency and Assessment Form required for renewal of an active medical license in Virginia.

