

## The Future of Perioperative Medicine: Innovations and Challenges Ahead

Joseph Cravero \*

Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, USA

### DESCRIPTION

Perioperative medicine, an emerging field of medicine, focuses on optimizing patient care before, during, and after surgical procedures. With the increasing demand for high-quality, cost-effective healthcare, the future of perioperative medicine holds both innovative opportunities and significant challenges.

#### Digital health technology

Digital health technology has the potential to transform perioperative medicine by providing new tools for patient assessment, monitoring, and postoperative care. Wearable devices, mobile health apps, and telemedicine platforms can help healthcare providers deliver personalized care plans, improve patient communication, and remotely monitor patient progress after surgery.

#### Enhanced Recovery After Surgery (ERAS)

ERAS protocols focus on optimizing patient recovery after surgery. These protocols may include preoperative nutrition, pain management, and early mobilization. By improving patient outcomes and reducing the likelihood of complications, ERAS protocols can reduce healthcare costs and improve patient satisfaction.

#### Artificial Intelligence (AI)

AI has the potential to transform perioperative medicine by providing new tools for patient assessment, decision-making, and postoperative care. AI can analyze patient data, identify risk factors, and develop personalized care plans. It can also help healthcare providers make more informed decisions during surgery, reducing the likelihood of complications and improving patient outcomes.

#### Challenges in perioperative medicine

Despite the promise of innovation, perioperative medicine also faces significant challenges. Aging Population As the population ages, the demand for surgical procedures is expected to increase. Older adults are more likely to have multiple comorbidities,

which can increase the risk of complications during and after surgery. Perioperative medicine must address the unique needs of older adults, such as frailty and cognitive decline, to ensure optimal patient outcomes.

#### Healthcare disparities

Healthcare disparities, such as differences in access to care and outcomes based on race, ethnicity, and socioeconomic status, remain a significant challenge in perioperative medicine. Healthcare providers must ensure that all patients have access to high-quality perioperative care, regardless of their background or ability to pay.

#### Cost-effectiveness

Perioperative medicine must balance the promise of innovation with the need for cost-effectiveness. As healthcare costs continue to rise, healthcare providers must develop strategies to reduce costs while maintaining high-quality patient care. This may include the use of standardized protocols, telemedicine platforms, and digital health technology to improve efficiency and reduce unnecessary healthcare costs.

### CONCLUSION

The future of perioperative medicine holds both innovative opportunities and significant challenges. Digital health technology, ERAS protocols, and AI have the potential to transform perioperative medicine and improve patient outcomes. However, the aging population, healthcare disparities, and cost-effectiveness remain significant challenges that must be addressed to ensure access to high-quality perioperative care for all patients.

As the demand for surgical procedures continues to grow, perioperative medicine will play an increasingly important role in optimizing patient care and reducing healthcare costs. Healthcare providers must continue to innovate and address the challenges ahead to ensure that all patients receive the best possible care before, during, and after surgery. By working together and leveraging the latest advances in technology and

**Correspondence to:** Joseph Cravero, Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, USA, E-mail: Joseph.Cravero@childrens.edu

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patient care, the future of perioperative medicine can be one of improved outcomes and increased access to high-quality care.