

Current Trends and Future Directions in Operation Theatre Technology

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The healthcare sector is completely different as compared to other industries. Despite the expense, people expect the highest caliber of care and services in this highly favored industry. Surgical setup should meet the criteria for patient safety. To keep up with the quick growth of medical gadgets, medical professionals need to put in a lot of time and effort. Operation theater technology is a specialized field that supports surgical procedures by providing critical and technical assistance in the operating room (OR). Operation Theater Technologists are educated to manage surgeries, Pre and Post anesthesia care units, tools, supplies, and sterile settings to guarantee a seamless and successful surgical procedure.¹

Their roles include Assistance during surgeries and anesthesia, preparing the operating room, sterilizing equipment, maintaining a sterile field. They also have a major role in infection prevention and control and patient safety. In addition to supporting the operating team, they also collaborate with other healthcare professionals to ensure the highest standard of patient care, effective communication, and timely interventions.²

In the present era, the field of operation theater technology has advanced significantly, driven by technological innovations and

modern surgical techniques. The integration of robotics, minimally invasive surgery, and enhanced imaging systems during surgery has expanded the role of Operation Theatre technologists. For instance, robotic-assisted surgeries require technologists to manage robotic arms, assistance with camera, navigation, and monitor real-time imaging. They contribute with their skills in various specialties such as orthopedics, cardiovascular surgery, neurosurgery, general surgery and obstetrics, where the precision of their actions directly impacts patient outcomes.³

References

1. Boffard KD, White J. Manual of definitive surgical trauma care: incorporating definitive anaesthetic trauma care. Boca Raton: CRC Press; 2024. <https://doi.org/10.1201/9781003258124>
2. Garden OJ, Parks RW, Wigmore SJ. Principles and practice of surgery. 7th ed. London: Elsevier Health Sciences; 2022.
3. Deo S, Sharma J, Kumar S. GLOBOCAN 2020 report on global cancer burden: challenges and opportunities for surgical oncologists. Ann Surg Oncol. 2022;29(11):6497-500. <https://doi.org/10.1245/s10434-022-12151-6>