

Role of Dedicated Procedure Rooms in Modern Anaesthesia Practice

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Improving the efficiency and effectiveness of surgical care requires optimizing operating room (OR) design. There is immense need for creative solutions to enhance workflow and patient outcomes, drawing on a wealth of anesthesia experience. Including specialized procedure rooms in surgical complexes is a crucial tactic. The incorporation of these specialized spaces into modern anesthesia protocols has many benefits, which are backed by current research and clinical practices. Prior to surgery, regional anesthetic procedures like ultrasound-guided nerve blocks are typically carried out on the operating table.¹ This method not only wastes time but also limits the number of patients that can be operated each day.

Optimizing OR utilization and improved patient flow can be achieved through the implementation of dedicated procedure rooms. Anaesthetists can conduct nerve blocks separately (in a dedicated procedure room) prior to surgical procedures. This division shortens the time required for administering anesthesia leading to effective utilization of time in OR. As a result, Hospitals are able to treat more patients without sacrificing safety or quality. The advantages of regional anesthesia, as opposed to general anesthesia, are extensively researched. Regional anaesthesia techniques/blocks; have been proven to deliver the benefits like shorter time required for recovery, decreased expenditure on anesthetic drugs, less post-operative sickness and discomfort and higher patient contentment.² These aspects result in reduced hospital stays, leading to substantial financial advantages to the medical institutions. Employing specialized rooms specifically for regional anaesthesia can additionally enhance patient management and enhance outcomes.

Another important aspect in which this is helpful is "Resolving Personnel Management Issues". In

surgical settings, it can be difficult to guarantee that all anaesthetists have the abilities needed to execute intricate regional blocks. While skilled anaesthetists effectively handle nerve blocks, those who are not proficient in certain techniques can concentrate on other main duties or administer general anaesthesia. Furthermore, the wear and tear of transferring ultrasound equipment between operating rooms is decreased by having a dedicated area. By lowering the possibility of mistakes or infections during transitions, this improves safety procedures and extends the life of pricey medical equipment. Another benefit can be Improved Pain Management. Innovative pain management procedures can also be performed in dedicated procedure rooms. For instance, patients with chronic pain may benefit from paravertebral blocks containing steroids, which can provide relief; while maximizing hospital resources. Higher patient satisfaction and faster returns to baseline activity levels are guaranteed when treatment approaches are less variable. Better planning and resource use are made possible by scheduling surgeries according to estimated block times. This proactive strategy increases patient throughput and operational efficiency. Future Practitioner Training like observer-ship or training can also done there. In addition to enhancing existing procedures, dedicated procedure rooms provide junior physicians with beneficial training opportunities. These areas support supervised learning, in which students watch and carry out ultrasound-guided blocks while being supervised by professionals. In order to produce competent anaesthetists ready for the modern challenges in anesthesia practice, practical experience is essential. The efficiency of specialized procedure rooms in improving patient outcomes and productivity should be regularly audited. Despite the paucity of specific research on



this subject, recent systematic reviews emphasize the four main performance metrics that affect OR effectiveness: patient safety, cost-effectiveness, quality of care, and the well-being of healthcare professionals.³

To conclude, the addition of specialized procedure rooms to surgical complexes represents a major development in the field of anesthesia. These dedicated areas improve patient care and satisfaction while also increasing operational efficiency. Promoting designs that put safety and efficacy first is essential as healthcare systems deal with growing demands. Multipara monitors, proper lighting, ultrasound machines, resuscitation equipment, trained personnel, and required drugs like Intralipid are all crucial components of a well-equipped procedure room that complies with safety regulations. Although operating room complexes usually have these resources, rearranging spaces to include specific treatment areas will increase workflow efficiency and have significant financial benefits. In nutshell, it is critical to embrace change, through specialized procedure rooms as we look to the future of anesthesia practice. The potential

advantages such as better training opportunities, increased efficiency, and better patient outcomes have highlighted the need for this and as to how we provide anesthesia care.

SUGGESTED READING

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3. Schouten AM, Flipse SM, van Nieuwenhuizen KE, Jansen FW, van der Eijk AC, van den Dobbelen JJ. Operating Room Performance Optimization Metrics: a Systematic Review. *J Med Syst.* 2023;47(1):19.

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