







The role of nurses in a team approach and bioprosthesis preparation for transcatheter aortic valve replacement

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Transcatheter aortic valve replacement (TAVI) has emerged as a revolutionary procedure for treating aortic valve disease, offering a less invasive alternative to traditional open-heart surgery. In the process of transcatheter aortic valve replacement, nurses play a key role, significantly contributing to patient care and the success of the procedure. They are also crucial members of the multidisciplinary TAVI team, providing comprehensive care before, during, and after the procedure. Their impact spans various aspects of the TAVI process, including patient preparation, intraoperative assistance, valve preparation, and post-procedural monitoring.^{1,2}

Acquiring skills in TAVI procedures requires a combination of formal education, practical training, and clinical experience. Nurses interested in TAVI typically undergo specialized training programs covering principles of cardiology care, heart anatomy and physiology, and specific protocols and equipment used in TAVI procedures. Simulation training plays a key role in preparing specialized nurses for valve preparation in TAVI procedures, allowing them to practice skills on demo models in a controlled environment. Simulations replicate various aspects of the procedure, including the preparation of the appropriate sheath, delivery system setup, and, finally, valve preparation.

Successful valve implantation requires seamless team coordination, in which nurses have an irreplaceable role. They ensure the preparation of equipment, check all system components, and properly prepare the bioprosthesis, contributing to patient safety and the success of the procedure. Due to technological advancements and the increasing use of the TAVI method, mentoring and peer support are invaluable resources for nurses navigating the complexities of TAVI nursing. Through specialized education, practice, and continuous professional development, nurses acquire the knowledge and experience needed to succeed in the dynamic field of TAVI nursing.

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LITERATURE 

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