

Evolution of quality index for vascular access care: describing vascular access devices in a regional healthcare system



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Introduction

Background: A quality program for VAD care has been developed for 17 years in 33 hospitals in a region of Spain. This program analyzes the impact of training activities for healthcare professionals who insert, manage, and remove these devices in hospitals. In 2024, this program developed a new stage, expanding the variables studied and contributing to scientific evidence. The aim of this study is to describe the trend of use of VADs and the quality index for VAD care in hospitals participating in a region of Spain.

Methodology

A multicenter, observational, descriptive, cross-sectional study conducted in 29 hospitals in the Valencian Community. Data was obtained from an online database software at the bedside for each vascular access device during three cross-sectional periods in 2024 and 2025.

Conclusion

Research on VADs based on real-world practice evaluation is essential to generate scientific evidence, identify areas for improvement, standardize protocols, ensure patient safety, and promote a culture of applied research in healthcare settings, strengthening quality of care. Ultimately, advancing VAD management is not only about improving devices—it is about transforming patient outcomes and shaping the future of safe vascular access worldwide

