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Shortening the Preoperative Aortic Stent Graft Preparation Time

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Abstract

Purpose: Emergent endovascular stent grafts for ruptured aortic aneurysm can reduce mortality considerably. This study analyzed the factors relating to the time spent on preoperative preparation. Strategies for accelerating the preparation process, maintaining patient safety, and cultivating a safe and high-quality surgical environment are proposed.

Materials and Methods: We investigated the factors that may lengthen preoperative preparation time and identified the associated causes, which included a lack of relevant knowledge and experience, failure to recall the location of equipment, use of traditional resection operation case carts, mistaken placement of the radiotranslucent table, and disorganized equipment. We implemented measures to improve preparation, such as enhancing staff education, listing instruments in the tray in detail, establishing specific-use case carts, drawing instructive diagrams detailing the use of the radiotranslucent table, setting a protocol and checklist for preparation, organizing and labeling surgical materials in an orderly fashion, and establishing an auditing system.

Results: The time spent on preoperative preparation was shortened from 28.2 to 14.5 min. We verified that this intervention had a positive effect in terms of expediting preparation.

Conclusion: The intervention successfully shortened the time spent on preoperative preparation. However, more methods are required to solve the remaining problems.

Keywords: aortic stent graft, preoperative preparation

縮短主動脈支架的術前準備作業時間

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摘要

目的：緊急置放支架是降低主動脈瘤破裂死亡的關鍵。本文分析造成主動脈支架術前準備時間過長的原因並實施對策，以縮短術前準備作業時間、維護病人安全，營造安全且優質的手術環境。

材料與方法：採查檢表調查支架術前準備時間過長情形，導因有缺乏相關知識及經驗、忘記用物位置、採傳統切除手術個案車、透視床擺放錯誤及材料擺放凌亂。透過在職教育、用物位置圖、專屬個案車、標示床辨識圖、備物作業標準、備物查檢表、調整材料位置並標示及稽核機制改善術前準備時間。

結果：改善後術前準備時間由28.2分鐘縮短為14.5分鐘，顯示專案對縮短術前準備時間具正面成效。

結論：經改善後，成功縮短主動脈支架術前準備時間，日後仍需持續精進對策實施，改善殘餘之問題。

關鍵詞：主動脈支架、術前準備