



AB038. SOH22ABS133. Swings and roundabouts—is open abdominal aortic aneurysm surgery back in fashion?

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Background: Endovascular aortic aneurysm repair (EVAR) has become increasingly popular in the past two decades, accounting for at least 60% of all abdominal aortic aneurysms (AAA) repairs in Europe and up to 85% in the USA. It has been the preferred option for many patients as it is minimally invasive, cost-effective and often suitable for patients deemed unfit for open repair. However, 30–50% of patients who have EVAR do not fulfil instructions for use (IFU). Depending on their life expectancy, they may be better treated with operating room (OR). Long term follow-up of OR procedures demonstrate better durability compared to EVAR.

Methods: All patients who underwent AAA surgery between 2006 and 2021 in St. Vincent's University Hospital were included in this study. Data was collated from a prospective database cross-referenced with electronic theatre logbooks and HIPE data.

Results: A total of 640 AAA repairs were performed: 529 were elective (82.7%) and 111 emergency (17.3%) repairs. Of the elective repairs 261 (49.3%) were performed by EVAR and 51% by OR. The percentage of EVAR annually has increased from 22% in the earlier part of the series to 70% in 2013 with a decline towards 50% in the past five years.

Conclusions: Despite international trends towards EVAR

as the most commonly performed technique for AAA repair our centre has maintained a large experience of OR surgery over the past 15 years. Preservation of OR volume increases durability of repair and, in addition, may offer a solution to the challenge of OR training.

Keywords: Abdominal aortic aneurysms (AAA); aortic surgery; endovascular repair; surgical training; vascular trainees

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Footnote

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Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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