









National Vascular Registry Aortic Devices Update

ICVR May 2022

Arun Pherwani MS MPhil FRCS Consultant Vascular Surgeon Chair Audit & Quality Improvement Committee VSGBI Clinical Lead for the NVR



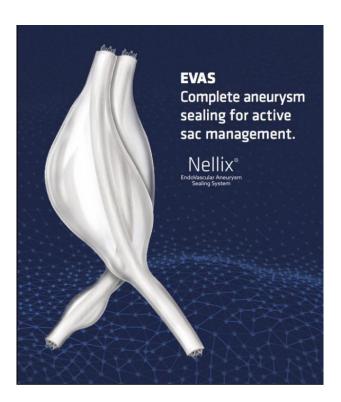






National Vascular Registry

- 2013: Data collection in current format (some data exists back to 2005)
 - Carotid interventions (endarterectomy and stenting)
 - Aortic repairs (open, EVAR, complex); Aortic Devices July 2020 onwards
 - Lower limb angioplasty/stents
 - Lower limb surgical revascularisation (bypass, endarterectomy)
 - Lower limb amputations.
- Commissioned with government funding
- National Clinical Audit and Patient Outcomes Programme (NCAPOP) for England and Wales (although NVR is UK-wide).
 - NCAPOP comprises around 40 national clinical audits





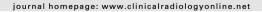






Contents lists available at SciVerse ScienceDirect

Clinical Radiology



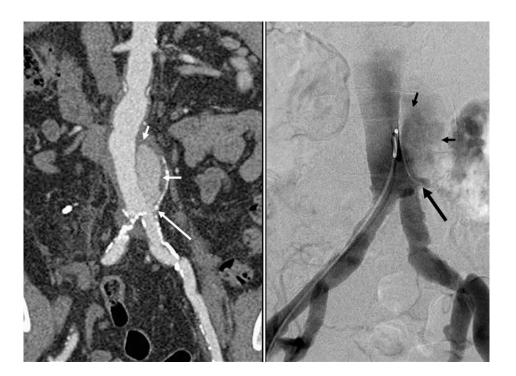


Pictorial Review

Imaging and management of complications of open surgical repair of abdominal aortic aneurysms

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Aortic Devices report

First Do No Harm

The report of the Independent Medicines and Medical Devices Safety Review



July 2020

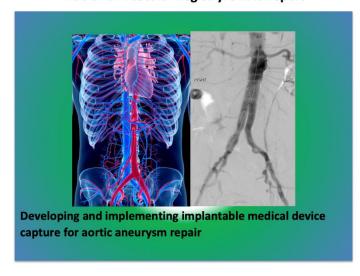
HQIP

Healthcare Quality
Improvement Partnership

Proposal for a medical devices registry

Short report

National Vascular Registry: Short Report



June 2021







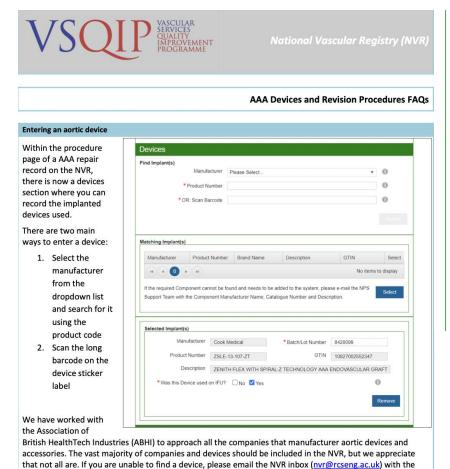


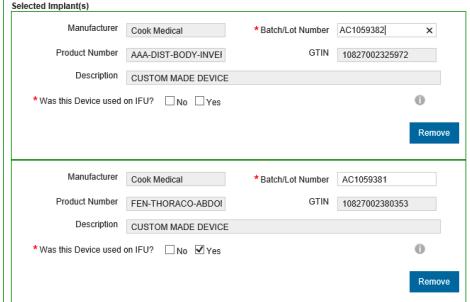
'collect and publish information on implantable medical devices to monitor safety'
'prioritise the collection of implantable medical devices especially in novel procedures on medical registries'

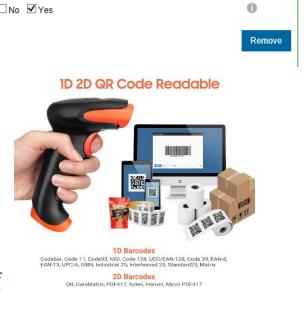
© HOIR 2020

https://www.vsqip.org.uk/reports/developing-and-implementing-implantable-medical-device-capture-for-aortic-aneurysm-repair/

AAA devices & revisions data entry — guide









Endurant ™ IIs Stent Graft System

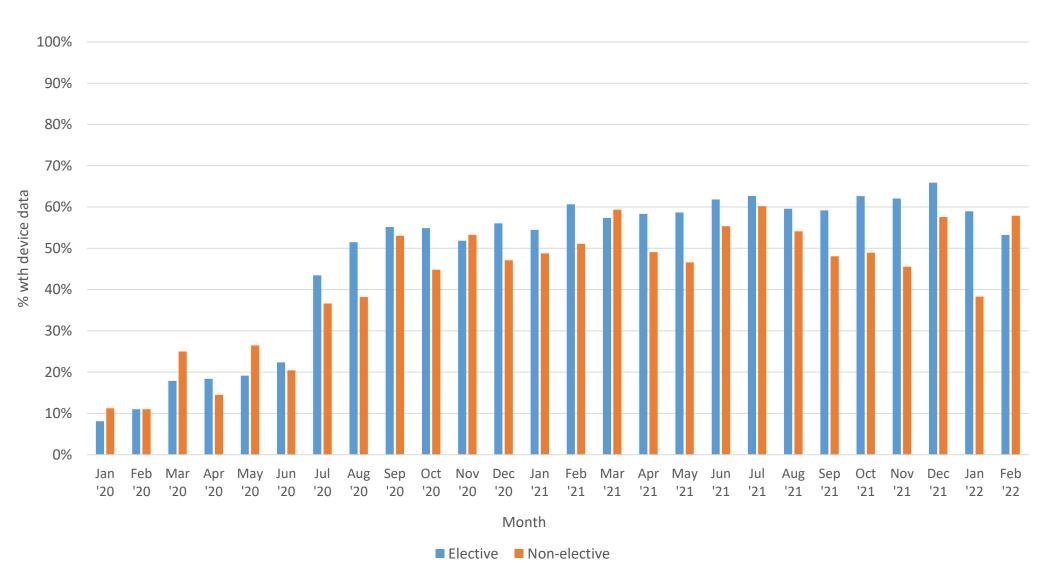
https://www.vsgip.org.uk/content/uploads/2021/06/AAA-Revision-Devices-FAQs.pdf

company's name, device name/description, product code and barcode number. We will then endeavour to

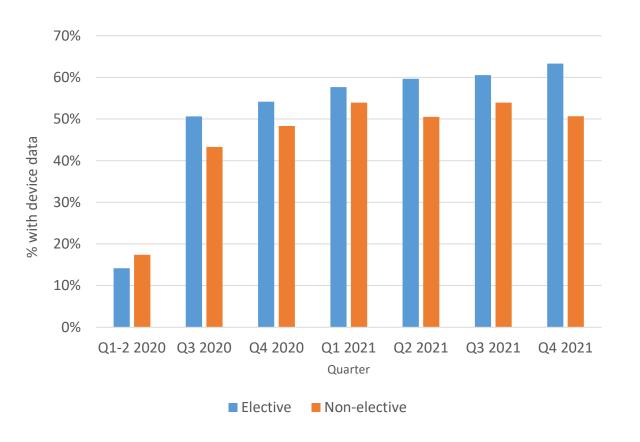
see if the device can be added in the future.

Percentage of AAA procedures with device information between January 2020 and February 2022, by month of operation and mode of admission

(4,341 submitted procedures)

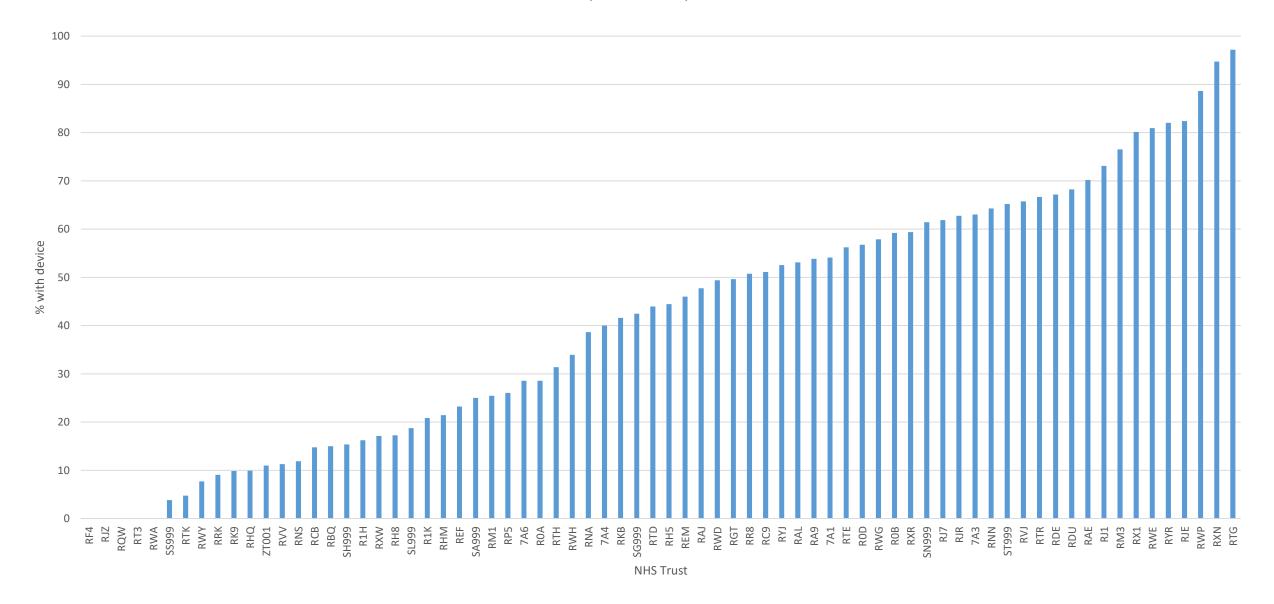


Device data capture by quarter



	Number of AAA procedures with device data	Total AAA procedures submitted	% of AAA procedures with device data
Q1-2 2020	276	1,829	15%
Q3 2020	538	1,107	49%
Q4 2020	665	1,263	53%
Q1 2021	553	978	57%
Q2 2021	793	1,375	58%
Q3 2021	676	1,150	59%
Q4 2021	673	1,122	60%
Total	4,174	8,824	40%

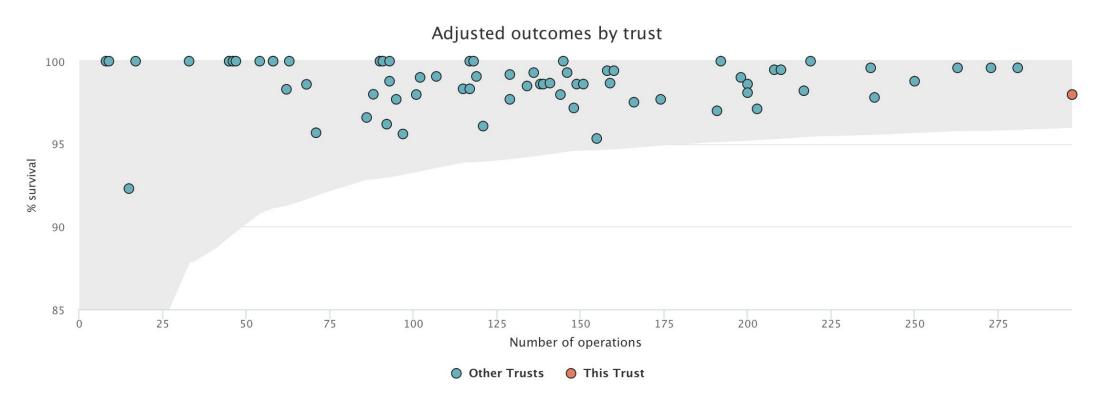
AAA Device capture by NHS Trust



AAA Repair

University Hospital of North Midlands NHS Trust

Trust outcomes

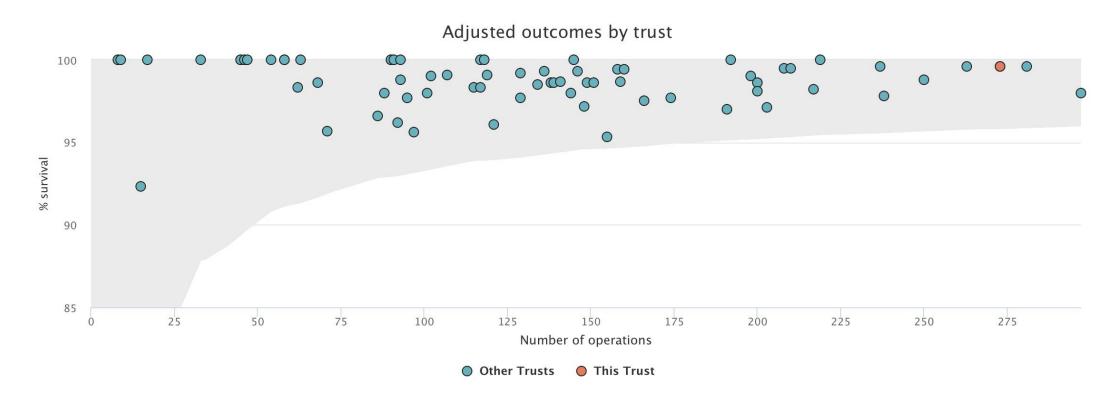


No. of procedures	Adjusted survival rate %	Length of stay for open repairs Average (typical range)	Length of stay for EVAR Average (typical range)
297	98	7 (6,9)	enshot

AAA Repair

Cambridge University Hospitals NHS Foundation Trust

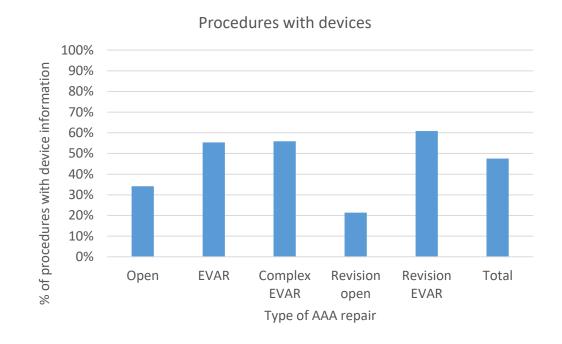
Trust outcomes



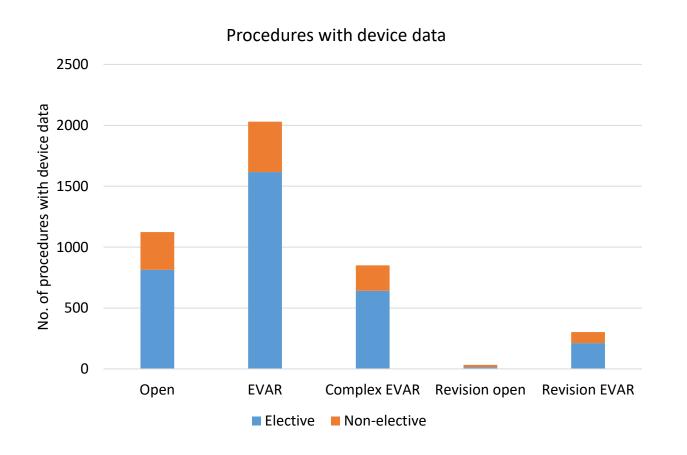
No. of procedures	Adjusted survival rate %	Length of stay for open repairs Average (typical range)	Length of stay for EVAR Average (typical range)
273	99.6	7 (6,9)	2 (1,3)

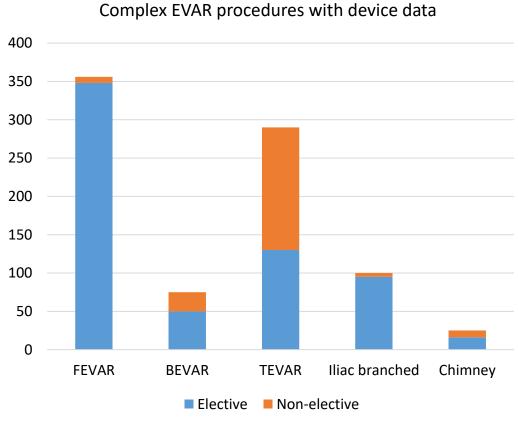
Device information available by type of AAA repair

Repair type	Elective	Non-elective	Total	% with device data
Open	813	310	1,123	34%
EVAR	1,616	414	2,030	55%
Complex EVAR	642	209	851	56%
Revision open	15	19	34	21%
Revision EVAR	212	91	303	61%
Total	3,298	1,043	4,341	48%

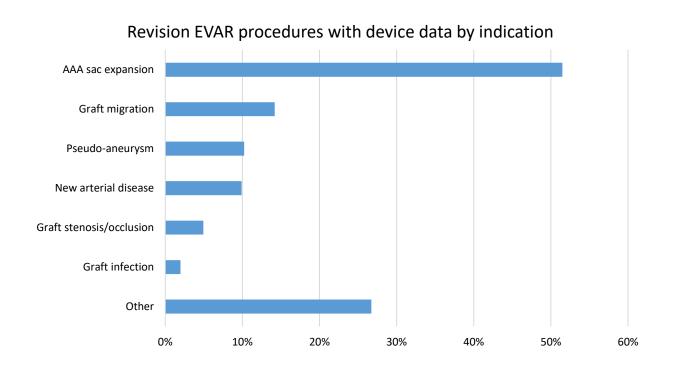


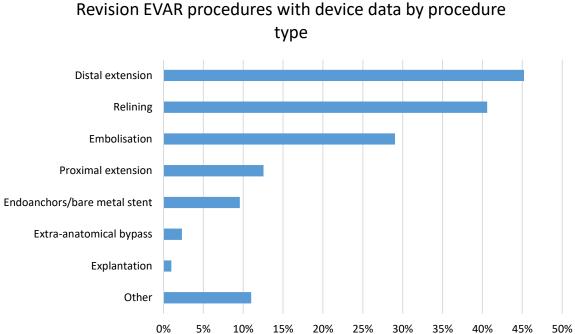
Procedures with device information, by admission mode





Revision EVAR procedures





Next steps

- Aortic devices updated report November 2022
- Medical Devices Safety & Registration Programme Vascular & IR
- Carotid patches, stents
- Lower limb stents, drug eluting technology
- National Registries should take the responsibility of accountability procedures, outcomes and device data capture
- Support colleagues with device data capture



NVR Team





- Staff at Clinical Effectiveness Unit, Royal College of Surgeons of England
 - Sam Waton, NVR Manager
 - Amundeep Johal, Senior statistician
 - Qiuju Li, Research Fellow in Medical Statistics
 - Panagiota Birmpili, NVR Clinical Fellow
 - Ellie Atkins, NVR Clinical Fellow
 - David Cromwell, CEU Director

Previous Chair – Jonathan Boyle

Clinical leads

- Arun Pherwani, Consultant Vascular Surgeon
- Robin Williams Consultant Interventional Radiologists

Partner organisations

- Vascular Society for Great Britain & Ireland
- British Society of Interventional Radiology
- Vascular Anaesthesia Society of Great Britain & Ireland



