

AAA Devices and Revision Procedures FAQs

Entering an aortic device

Within the procedure page of a AAA repair record on the NVR, there is now a devices section where you can record the implanted devices used.

There are two main ways to enter a device:

1. Select the manufacturer from the dropdown list and search for it using the product code
2. Scan the long barcode on the device sticker label

We have worked with the Association of

British HealthTech Industries (ABHI) to approach all the companies that manufacturer aortic devices and accessories. The vast majority of companies and devices should be included in the NVR, but we appreciate that not all are. If you are unable to find a device, please email the NVR inbox (nvr@rcseng.ac.uk) with the 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.

Devices

Find Implant(s)

Manufacturer

* Product Number

* OR: Scan Barcode

Search

Matching Implant(s)

Manufacturer	Product Number	Brand Name	Description	GTIN	Select
No items to display					

If the required Component cannot be found and needs to be added to the system, please e-mail the NPS Support Team with the Component Manufacturer Name, Catalogue Number and Description.

Select

Selected Implant(s)

Manufacturer * Batch/Lot Number

Product Number GTIN

Description

* Was this Device used on IFU? ☐ No ☒ Yes

Remove

1. Manually entering the device information

These are the steps to follow to enter a device manually:

- Select the manufacturer from the drop-down list.
- In the Product Number field enter the product number on the device barcode sticker.
- Click 'Search' (the Scan Barcode field can be left blank).
- If the device can be found, the details will be shown below. Click on the 'Select' check box and then click on the Select button to add it to the procedure.
- Enter the batch/lot number from the device barcode sticker.
- Answer the question on whether the device was used on IFU or not.
- Ensure that you save the page by clicking on the 'Save' button or the 'Previous' or 'Next' button at the bottom of the page.
- Repeat the steps above for every device component.

The 'Devices' form consists of three main sections:

- Find Implant(s):** Includes a 'Manufacturer' dropdown menu and a 'Product Number' text field. A 'Search' button is located at the bottom right.
- Matching Implant(s) - Exact Match:** A table with columns: Manufacturer, Product Number, Brand Name, Description, GTIN, and Select. Below the table is a 'Select' button and a note: 'If the required Component cannot be found and needs to be added to the system, please e-mail the NPS Support Team with the Component Manufacturer Name, Catalogue Number and Description.'
- Selected Implant(s):** Includes fields for Manufacturer, Product Number, Batch/Lot Number, GTIN, and Description. It also has a checkbox for 'Was this Device used on IFU?' and a 'Remove' button.

2. Scan the long barcode on the device sticker label

These are the steps you need to follow to scan a device barcode:

- Ensure your USB barcode scanner is plugged into your computer (we advise using a 2D scanner that is capable of scanning 'normal' barcodes and the newer QR codes).
- Click into the text box entitled 'OR: Scan Barcode' and scan the barcode.
- If scanned successfully, the long barcode number should appear in the box.
- Click 'Search' (the manufacturer and product number fields can be left blank).
- If the device can be found, the details will be shown below. Click on the 'Select' check box and then click on the Select button to add it to the procedure.
- The batch/lot number should automatically be populated (as this can be read from the long barcode number). If not, add the batch/lot number from the device barcode sticker.
- Answer the question on whether the device was used on IFU or not.
- Ensure that you save the page by clicking on the 'Save' button or the 'Previous' or 'Next' button at the bottom of the page.
- Repeat the steps above for every device component.



The 'Devices' form shows the scanning process in two steps:


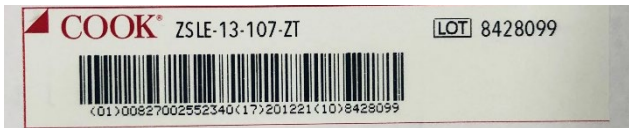
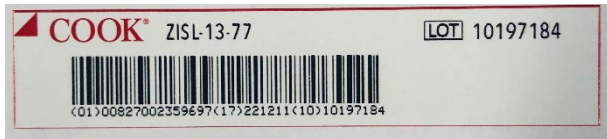
- OR: Scan Barcode:** A text field where the scanned barcode number is entered. A 'Search' button is next to it.
- Matching Implant(s) - Exact Match:** A table with columns: Manufacturer, Product Number, Brand Name, Description, GTIN, and Select. The 'Select' checkbox for the first item is checked. Below the table is a 'Select' button and a note: 'If the required Component cannot be found and needs to be added to the system, please e-mail the NPS Support Team with the Component Manufacturer Name, Catalogue Number and Description.'
- Selected Implant(s):** Includes fields for Manufacturer, Product Number, Batch/Lot Number, GTIN, and Description. It also has a checkbox for 'Was this Device used on IFU?' and a 'Remove' button.





Current aortic device manufacturers included on the NVR (04/04/2025)

Company Name	On NVR Dropdown List?	Able to add devices?	Comments
Artivion Inc. (includes Jotec and Cryolife)	Yes	Yes	
B. Braun Aesculap	Yes	Yes	
Bard/BD	Yes	Yes	
Bentley Innomed	Yes	Yes	
Boston Scientific	Yes	Yes	
BVM Medical	Yes	No	
Cook Medical	Yes	Yes	
Cordis, A Cardinal Health Company	Yes	Yes	
Endologix Inc.	Yes	Yes	
Getinge (includes Advanta, Maquet, Hemagard and Intergard)	Yes	Yes	
LeMaitre Vascular	Yes	Yes	
Lombard Medical	Yes	Yes	
Medtronic Inc.	Yes	Yes	
Terumo Aortic (includes Vascutek)	Yes	Yes	
W.L Gore & Associates Inc.	Yes	Yes	

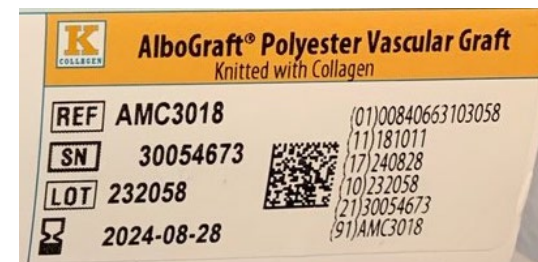

How to record devices from each company



Company	Product Name	Product Number starts with	Batch/Lot number format	Example Barcodes
Artivion Inc. (includes Jotec and Cryolife)	FlowLine FlowNit FlowWeave E-NSIDE E-Liac E-Nya E-ventus E-tegra Custom devices	10SW,10TW, 15SW or 15TW 35ST 45ST 65MU 72IB 90SO or 90TC 91BX 93 V00CDM	Most start with 11	
B. Braun Aesculap	Uni-Graft or Silver Graft	110	Starts with a 2	
Bard/BD	Fluency Lifestream	FVL or FVM LSM	Starts with AN	
Bentley Innomed	BeGraft Aortic BeGraft Peripheral BeSmooth BeYond	BGA BGP or BGP+ BSP BVY	Starts with a 2	

Boston Scientific	Express	H74	Starts with a 2	
Cook Medical	Custom-made infrarenal bifurcated Custom-made infrarenal inverted limb Custom-made branched graft Custom-made infrarenal inverted leg Custom-made infrarenal with fenestration Custom-made infrarenal Custom-made iliac leg extension Custom-made proximal body extension Zenith Renu ancillary graft converter Custom-made bifurcated with fenestrations Custom-made distal thoracic Zenith TAA distal extension Zenith flex converter Custom-made with fenestrations Formula balloon expandable stent Zenith dissection stent Custom-made iliac limb Embolisation coil Custom-made pre-loaded fenestrated Custom-made proximal thoracic Custom-made reinforced iliac side branch Custom-made side branch occluder Zenith TX2 proximal extension Zenith off the shelf thoraco-abdominal branch Zenith Flex Bifurcated main body Custom-made thoracic/thoraco branched Universal distal body grafts Zenith Iliac bifurcation graft Zenith TX2 dissection graft Zenith dissection stent Zenith Fenestrated body graft	AAA-BIF AAA-BODY AAA-BRANCH AAA-DIS AAA-FEN or AAA-REI AAA-INFRA AAA-LEG AAA-PROX AX1 BIFU DISTAL ESBE ESC FEN FOR or FOV GZSD ILIAC IMWC or MWCE PRE PROXIMAL REIN SIDE TBE TBRANCH TFFB THORAC UNIBODY ZBIS ZDEG ZDES	Various formats. Lot number clearly documented on device label.	  

	Zilver flex self-expanding stent Zenith Alpha main body Zenith iliac plug Zenith Alpha iliac leg graft Zilver drug eluting stent Zilver self-expanding stent Zenith Alpha main body extension Zenith Alpha converter Zenith iliac leg graft Zenith Alpha thoracic distal Zenith Alpha thoracic distal extension Zenith Alpha thoracic proximal Zenith TX2 TAA Zilver Vascular self-expanding stent Zilver Venous self-expanding stent	ZFEN ZFV ZIMB ZIP ZISL ZISV ZIV ZLBE ZLC ZSLE ZTA-D ZTA-DE ZTA-P or ZTA-PT ZTEG ZVS ZVT		
Cordis, A Cardinal Health Company	Aortic bifurcate Aortic extension Iliac	AB AE IL	Starts with 17	  Cordis Cashel, Cahir Road Cashel, Co Tipperary, Ireland INCRAFT® AAA Stent Graft System LOT 17893850 REF AB3098  (01)20705032065099(21)1788956113  (17)210831(10)17893850

Endologix Inc.	VELA AFX2 Limb extension Alto/ovation Ovation extension Ovation iliac limb	A25, A28, or A34 BEA I16, I20, or IS20 TV-AB TV-EX TV-IL	Most start with FS	 
Geringe (includes Advanta, Maquet, Hemagard and Intergard)	Advanta V12 Intergard or Hemapatch Hemagard knitted Intergard knitted Intergard woven Fusion Hemashield	853 HEW HGK IGK IGW M00 M00	V12 lot number is the SN on the label – starts with 4. For open repair grafts, lot number is clear on the label.	 

LeMaitre Vascular	XenoSure Dialine Omniflow RestoreFlow AlboGraft AlboSure XenoSure Pledget Wovex	0., 1.5, 1, 1B or 2.5B 24 741 or 751 AI, FA, FV or SV AMC, ASC, or ATC AP PL W	Lot number is clear on label.	 <p>AlboGraft® Polyester Vascular Graft Knitted with Collagen</p> <p>REF AMC3018 SN 30054673 LOT 232058 2024-08-28</p> <p>(01)00840663103058 (11)181011 (17)240828 (10)232058 (21)30054673 (91)AMC3018</p>
Lombard Medical	Altura Aorfix Hercules Minos	01 CL, DE, MB or PE HT CC, CL or CM		
Medtronic Inc.	Endurant Endurant cuff Endurant iliac Endurant limb Endurant tube Endurant aorto-iliac Endoanchor Occluder Valiant Captivia Valiant Navion	ESFB or ETFB ETCF ETEW ETLW ETTF ETUF HA, HG, SA, or SG OCL VAM VNM	The lot number is the SN on the label. Most start with a V.	 <p>Endurant™ IIS Stent Graft System</p> <p>2022-05-19</p> <p>REF ESBF2814C103EE SN V29967193</p> <p>Medtronic</p> <p>Medtronic REF SA-85 2022-02-10 LOT 0010131813</p> <p>(01)00763000225919(17)220210(10)0010131813</p>

Terumo Aortic (includes Vascutek)	Gelseal Gelsoft/Gelsoft Plus Gelweave Treo AUI Treo body Treo cuff Treo extension Treo custom made Relay Plus Relay Pro Relay Plus NBS Relay Pro NBS Anaconda cuff Anaconda flared limb Anaconda limb Anaconda body Anaconda tapered limb Custom Anaconda Custom flared/tapered fenestrated limb	43, 44, 45, 46, 47, or 49 63, 64, 65, 66, 67, 68, or 69 73 28-A1 28-B2 28-C2 28-L2, 28-S1 or 28-S2 28BC, 28CC or 28LC 28-M3 28-M4 28-N2 28-N4 AEC AFL AL ALP ATL CFA or CFD CFLF or CTLF	Lot number is clear on label.	
W.L Gore & Associates Inc.	Viabahn balloon expandable stent Iliac branch Aortic extender Trunk-ipsilateral leg Internal iliac component Viabahn self-expanding stent Contralateral leg Aortic extender Iliac extender Stretch vascular graft TAC thoracic branch stent graft TAG thoracic stent graft	BXA CEB CXA or PLA CXT or RLT HGB PAH, PAHR or PAJ PLC PLA PLL SA TAC, TE or TSB TGM	Lot number is the SN on the label.	

Dataset changes for aortic re-interventions

The dataset has also been amended so that it's now possible to capture aortic re-interventions in more detail.

The question on whether a patient has had a previous aortic repair has been moved higher up in the pre-op screen on the NVR.

Upon ticking anything but 'No,' 2 new questions appear – 'Indication for Re-intervention' and 'Pre-operative Endoleak.'

Pathway and Indications

* AAA/Aortic Diameter (mm) ⓘ

* Previous Aortic op ☐ No ⓘ
☐ Open repair
☒ Endovascular repair
☐ AAA repair - type unknown
☐ Both open and EVAR

* Indication for Re-intervention ☒ AAA sac expansion ⓘ
☒ Graft migration
☐ Graft stenosis or occlusion
☐ Graft infection
☐ New arterial disease (proximal or distal to original arterial graft)
☐ Pseudo-aneurysm
☐ Other

* Pre-operative Endoleak ☐ No endoleak ⓘ
☒ Type 1
☐ Type 2
☐ Type 3
☐ Type 4
☐ Type 5

A new question in the procedure page now appears, where you can select what re-intervention procedure(s) the patient had.

Additional OPCS codes have also been added to the page so it should be possible to record the correct one.

* Re-intervention procedure(s) ☐ Explant (partial or total)
☐ Extra-anatomical bypass
☐ Relining
☐ Endoanchors/Bare metal stent/Banding
☒ Distal extension
☐ Ligation of aortic branches
☐ Embolisation
☐ Proximal extension cuff/Fenestrated cuff
☐ Other

Other changes to the AAA dataset

Two new non-mandatory questions have been added to the risk scoring page for non-elective admissions – 'Highest Pulse Pre-op' and 'Lowest Systolic BP Pre-op.'

These were in the old NVD dataset, but not included in the NVR dataset in 2014. Despite poor levels of completeness, they were shown to be strong predictors of risk in a recent re-analysis of old data by the NVR team.

* Haemoglobin [g/dl] ⓘ

* Sodium [mmol/l] ⓘ

* Potassium [mmol/l] ⓘ

* Creatinine [μ mol/l] ⓘ

Albumin [g/l] ⓘ

Highest Pulse Pre-op ⓘ

Lowest Systolic BP Pre-op ⓘ

The questions on 'Neck angle,' 'Neck diameter,' and 'Neck length' have been added for open repairs.

This is in order to allow for better comparison of the patient's anatomy when comparing open and endovascular repairs.

* Type of Repair ☒ Open ⓘ
☐ EVAR
☐ Complex EVAR
☐ Revision Open
☐ Revision EVAR
☐ EVAS

* OPCS code of procedure 1 ⓘ

OPCS code of procedure 2 ⓘ

OPCS code of procedure 3 ⓘ

* Neck angle ⓘ

* Neck diameter (mm) ⓘ

* Neck length (mm) ⓘ

* AAA Clamp site ⓘ

* AAA Graft ☐ Tube ⓘ
☐ Bifurcated
☐ Any Groin Incision