ABDOMINAL AORTIC ANEURYSM STUDY

National Confidential Enquiry into Patient Outcome and Death (NCEPOD)

ENDOVASCULAR QUESTIONNAIRE

CONFIDE	NTIAL
Hospital Number of patient Name of Local Reporter	
What is this study about? NCEPOD will be reviewing clinical and organisational issues in the delivery of care to patients who undergo repair of Abdominal Aortic Aneurysms (AAAs), and also patients that are diagnosed with an AAA and die in hospital not having received surgery. Data will be collected for a two-month period from all sites across England, Wales, Northern Ireland, Isle of Man, Guernsey, Defence and the Independent sector. Elective and emergency procedures (conventional and	Who should complete this questionnaire? If you have received this questionnaire, it is because you were the radiologist involved in an endovascular AAA repair. Questionnaires have also been sent to the consultant surgeon and anaesthetist involved. Please return completed questionnaires to NCEPOD, either directly or via the Local Reporter.
endovascular) carried out by vascular surgeons, general surgeons and interventional radiologists will be included. This work is supported by the Vascular Surgical Society of Great Britain and Ireland (VSSGBI), the Vascular Anaesthetic Society of Great Britain and Ireland (VASGBI) and The Royal College of Radiologists.	How to complete this questionnaire This form will be electronically scanned. Please use a black or blue pen. Please complete all questions with either block capitals or a bold cross inside the boxes provided e.g. Was an epidural catheter inserted? Yes No Unknown
NCEPOD and the National Vascular Database Some vascular surgeons contribute to the National Vascular Database. This study will address the care of AAA patients across all specialities and include those that are not operated on.	If you make a mistake, please "black-out" the box and re-enter the correct information, e.g. Was an epidural catheter inserted?
Inclusion Criteria for this study: All adults (≥16 years of age) who either: underwent elective or emergency AAA repair (conventional or endovascular) between 1 st Feb and 31 st March 2004 inclusive. (OPCS Codes: L18.3, L18.4, L18.5, L18.6, L18.8, L18.9, L19.3, L19.4, L19.5, L19.6, L19.8, L19.9) OR were admitted with a primary diagnosis of AAA between 1 st Feb and 31 st March 2004 inclusive but did not undergo surgery and subsequently died in hospital during the same hospital	Unless indicated, please mark only one box per question. A list of definitions is provided on the back of the questionnaire. Free space is provided on page 6 for your comments. Incomplete questionnaires may be followed up.
episode (ICD10 codes: I71.0, 171.3, I71.4, I71.8, I71.9).	Questions or help

Specific exclusions are:

Repeat operations for AAA surgery operations that are for complications of a previous operation coded as one of the following OPCS codes: L18.3, L18.4, L18.5, L18.6, L18.8, L18.9, L19.3, L19.4, L19.5, L19.6, L19.8, L19.9.

If this patient underwent a repeat operation, please return this questionnaire to the NCEPOD Local Reporter.

If you have any queries about the study or this questionnaire, please contact NCEPOD on AAA@ncepod.org.uk or Tel: 020 7920 0999

Thank you for taking the time to complete this questionnaire. The findings of the study will be published in late 2005.

A -	THE PATIENT	
1. 2.	Age on admission Gender Male	(Patients < 16 years are excluded) Female
3.	a Was this patient entered into a national research trial testing endovascular repair against open repair?	Yes No Unknown
	b If YES, which trial were they entered into?	1 EVAR 1 2 EVAR 2 3 EEVAR 4 Other 5 Unknown
B-	STATUS OF ANEURYSM ON ADMIS	SSION
4.	Aneurysm (See definitions at end of questionnaire)	Ruptured: Haemodynamically unstable Ruptured: Haemodynamically stable Unruptured: Symptomatic and/or tender Unruptured: Asymptomatic Unknown
C -	DELAYS	
5.	Was a previous AAA repair cancelled due to delay in obtaining a suitable stent graft?	Yes No Unknown
6.	Was a previous AAA repair cancelled due to delay in imaging the patient?	Yes No Unknown
D -	DECISION TO TREAT	
7. 	Why was the decision made to treat the aneurysm by stent graft?	Please cross ALL that apply Part of national randomised research protocol ASA status of patient Patient preference Other
		5 Unknown

For	For elective patients For emergency patients, please go to question 9		
8.		ate patient placed on waiting list for ective endovascular AAA repair d d d m m y y y	
For	eme	ergency patients	
9.	а	Date of decision to treat d d m m y y	
	b	Time of decision to treat	
10.		formation about the most senior radiolgoist responsible for the decision to treat the AAA by endovascular bair	
	а	How many endovascular AAA repairs did the most senior radiologist perform in the year April 2002 – March 2003? Elective Unknown Unknown	
	b	Where was this information obtained? 1 Log book/information system 2 Memory	
11.	а	Did endovascular repair occur after a decision was made to treat the aneurysm by stent grafting?	
	b	If No , please state reason	
		Sudden deterioration of patient	
		Deterioration in patient's condition whilst imaging was taking place	
		Deterioration in patient's condition whilst waiting for space in theatre/vascular lab	
		Deterioration in patient's condition whilst waiting for appropriate grade of anaesthetist	
		5 Deterioration in patient's condition whilst waiting for appropriate grade of surgeon	
		6 Deterioration in patient's condition whilst waiting for appropriate grade of radiologist	
		7 Deterioration in patient's condition whilst arranging transfer	
		8 Profound deterioration during induction of anaesthesia	
		9 Failure to obtain a suitable stent graft	
		Decision taken as a result of discussion with patient and/or relatives	
		11 Other	
Ī		12 Unknown	
		Please go to question 24, pg 6	

<u>E-</u>	ENDOVASCULAR REPAIR	
12.	a Were there any delays to stenting? i.e. were you not able to operate when clinically required?	Yes No Unknown
		Please cross ALL that apply
	b If YES , what were the delays due to?	1 Lack of theatre/vascular laboratory resources
	,	2 Lack of anaesthetic resources
		H
		Lack of surgical resources
		4 Lack of suitable stent graft
		5 Lack of blood products
		6 Lack of critical care resources
	SAMPL	7 Other
13.	Date of repair	
		d d m m y y
14.	Start time	
	a Time of first angiogram	Please use 24 hour clock
		h h m m
	b If the start time occurred between 00:00 (midnight) and 08:00, were there any problems with availability of vascular laboratory/surgical assistance?	Yes No Unknown
	laberatery/eargiour decretaineer	
15.	Finish time	
	a Final angiogram	h h m m
	b Groin closure	
16.	Grade of most senior radiologist	1 Consultant
		2 Associate Specialist
		3 Staff Grade
		4 SpR Year 3+
		5 SpR Year 1/2
1		6 SHO
	<u></u>	7 Unknown

17.	Specialty of most senior radiologist?		Vascular radiologist
			General radiologist with vascular interest
			General radiologist with NO vascular interest
			Please cross ALL that apply
18.	Were any of the following procedures necessary at the same vascular	1	Femoral artery repair
	laboratory/theatre visit?	2	Brachial artery catheterisation (non anaesthetic)
		3	Femoro-femoral cross over
		4	Internal iliac embolisation
		5	Lumbar/IMA embolisation
	O A BADI	6	Additional cuff insertion
	SAMPI	7	Thrombolectomy/embolectomy
		8	Emergency renal/mesenteric artery stent
		9	Emergency conversion to open repair
		10	Other vascular procedures
		11	Unknown
19.	Was balloon occlusion used initially?		Yes No Unknown
19. 20.	Was balloon occlusion used initially? AAA stent graft	1	Yes Unknown Tube
		1 2	<u> </u>
			Tube
		2	Tube Bifurcated
		2 3	Tube Bifurcated Aorto uni-iliac
20.	AAA stent graft	2 3	Tube Bifurcated Aorto uni-iliac Other
20.	AAA stent graft	2 3 4 1	Tube Bifurcated Aorto uni-iliac Other Standard atherosclerotic aneurysm
20.	AAA stent graft	2	Tube Bifurcated Aorto uni-iliac Other Standard atherosclerotic aneurysm Suspected infected aneurysm
20.	AAA stent graft	2 3 4 2 3 3 2	Tube Bifurcated Aorto uni-iliac Other Standard atherosclerotic aneurysm Suspected infected aneurysm Inflammatory aneurysm
20.	AAA stent graft	2	Tube Bifurcated Aorto uni-iliac Other Standard atherosclerotic aneurysm Suspected infected aneurysm Inflammatory aneurysm Other
21.	AAA stent graft Imaging findings	2	Tube Bifurcated Aorto uni-iliac Other Standard atherosclerotic aneurysm Suspected infected aneurysm Inflammatory aneurysm Other Unknown
21.	AAA stent graft Imaging findings	2	Tube Bifurcated Aorto uni-iliac Other Standard atherosclerotic aneurysm Suspected infected aneurysm Inflammatory aneurysm Other Unknown Anatomy very suitable for endovascular repair

REPAIR 23. Stent graft complications None Please cross ALL that apply Amputation Type I Endoleak 3 Type II Endoleak Type III Endoleak (See definitions at end of questionnaire) 6 Type IV Endoleak Type V Endoleak Graft infection Limb occlusion Medical intervention Returned to vascular lab/theatre for further endovascular treatment Returned to theatre for stent graft removal 12 13 Returned to theatre for additional open procedure Other 14 15 Unknown 24. Please write clearly any additional observations you wish to report about the management of this patient. Thank you for taking the time to complete this questionnaire

F - POSTOPERATIVE COMPLICATIONS WITHIN 30 DAYS OF ENDOVASCULAR

Definitions

QUESTION	DEFINITION				
B. Examination and investig	B. Examination and investigations at admission				
4. Aneurysm	Ruptured aneurysm: Evidence on imaging of retroperitoneal haematoma or intraperitoneal soiling with blood. Unruptured: symptomatic and/or tender: Tender to palpation, with or without abdominal pain, with no clinical or imaging evidence of rupture. Unruptured: asymptomatic: Surgery required to prevent death from rupture at some future date. Indication for surgery is usually a diameter of more than 5.5cm ² .				
F. Postoperative complication	ons				
23. Stent Graft complications	Type I: Attached sites (or occluder in aorto-uno-iliac EVG). Type II: Retrograde sac filling by patent aortic side branches. Type III: Graft tear, disintegrating or modular limb dislocation. Type IV: Angiographic 'blush' experienced on completion of angiography with certain thin walled devices; self limiting. Type V: 'Endotension': said to occur where there is evidence of raised intra-sac pressure (usually aneurysm sac expansion) without radiological evidence of Endoleak.				

SAMPLE ONLY

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