Vascular Surgery PBA: Endovascular - EVAR					
Trainee:	Assessor:		Date:		
Assessor's Position*:	Email (institutional):		GMC No:		
Duration of procedure (mins):	Duration of assessment period (mins):		Hospital:		
Operation more difficult than usual? Yes / No (If yes, state reason)		[ ] Tick this box if this PBA was performed in a <b>Simulated setting</b> .			

**IMPORTANT:** The trainee should explain what he/she intends to do throughout the procedure. The Assessor should provide verbal prompts if required, and intervene if patient safety is at risk.

Rating:
N = Not observed or not appropriate
D = Development required
S = Satisfactory standard for CCT (no prompting or intervention required)

	Competencies and Definitions	Rating N/D/S	Comments
I. Cons	ent		
C1	Demonstrates sound knowledge of indications and contraindications including alternatives to surgery		
C2	Demonstrates awareness of sequelae of operative or non operative management		
C3	Demonstrates sound knowledge of complications of surgery		
C4	Explains the procedure to the patient / relatives / carers and checks understanding		
C5	Explains likely outcome and time to recovery and checks understanding		
II. Pre o	pperation planning		
PL1	Demonstrates recognition of anatomical and pathological abnormalities (and relevant co-morbidities) and selects appropriate operative strategies / techniques to deal with these		
PL2	Demonstrates ability to make reasoned choice of appropriate equipment, materials or devices (if any) taking into account appropriate investigations e.g. x-rays		
PL3	Checks materials, equipment and device requirements with operating room/ angio staff		
PL4	Ensures the operation site is marked where applicable		
PL5	Checks patient records and investigations (e.g. up-to-date imaging, creatinine etc) and also ensures nephrotoxic drugs, anticoagulants etc have been stopped		
PL6	Verifies relevant peripheral pulse status		
PL7	Ensures the access site(s) and foot pulses are marked, where applicable		
III. Pre	operative preparation		
PR1	Checks in theatre that consent has been obtained		
PR2	Gives effective briefing to theatre team		
PR3	Ensures proper and safe positioning of the patient on the operating table		
PR4	Demonstrates careful skin preparation		
PR5	Demonstrates careful draping of the patient's operative field		
PR6	Ensures general equipment and materials are deployed safely (e.g. catheter, diathermy)		
PR7	Ensures appropriate drugs administered		
PR8	Arranges for and deploys specialist equipment (e.g. image intensifiers) effectively		
IV. Exp	osure and closure		

<sup>\*</sup> Assessors are normally consultants (senior trainees may be assessors depending upon their training level and the complexity of the procedure)

Achieves an adequate exposure through purposeful dissection in correct tissue planes and identifies all structures correctly (open access only)  Completes a sound arteriotomy and wound repair where appropriate (open access only)  Protects the wound with dressings, splints and drains where appropriate (open access only)  Ensures clean anterior wall puncture of undiseased portion of CFA under ultrasound guidance (percutaneous access)  Ensures satisfactory placement of percutaneous closure device(s) (percutaneous access)  Demostrates satisfactory haemostasis by deployment of percutaneous closure device(s) (percutaneous access)  Sutures appropriate conduit to access artery (if required for open access)  Intra operative technique: global (G) and task-specific items (T)  Follows an agreed, logical sequence or protocol for the procedure  Cicconsistently handles tissue well with minimal drange  (G) Consistently handles tissue well with minimal drange  (G) Consistently handles tissue well with minimal drange  (G) Demonstrates a sound technique of knots and sutures/staples  (G) Demonstrates a sound technique of knots and sutures/staples  (G) Demonstrates appropriately and safely  (G) Proceeds at appropriately pace with economy of movement  (G) Anticipates and responds appropriately to variation e.g. anatomy  (G) Deals calmly and effectively with unexpected events/complications  (G) Deals calmly and effectively with unexpected events/complications  (G) Deals calmly and consistently with the nurses and / or radiographers  (H) Communicates clearly and consistently with the nurses and / or radiographers  (H) Communicates clearly and consistently with the patient if awake  (Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate pestion and coning)  (H) Administers or asks anaesthetist to administer Heparin IV  (H) Exchanges guidewires up iliac arteries without injury  (H) Selects appropriate side and screens diagnostic catheter up into suprarenal anota  (H) Flushes all sheat			
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Access only)  Protects the wound with dressings, splints and drains where appropriate (open access only)  Ensures clean anterior wall puncture of undiseased portion of CFA under ultrasound guidance (percutaneous access)  Ensures satisfactory placement of percutaneous closure device(s) (percutaneous access)  Demostrates satisfactory haemostasis by deployment of percutaneous closure device(s) (percutaneous access)  Sutures appropriate conduit to access artery (if required for open access)  Intro operative technique, global (G) and task-specific tlems (T)  (G) Follows an agreed, logical sequence or protocol for the procedure  (G) Consistently handles tissue well with minimal damage  (G) Controls bleeding promptly by an appropriate method (open access)  (H) Demonstrates a sound technique of knots and sutures/staples  (G) Uses instruments appropriately and safely  (G) Proceeds at appropriate pace with economy of movement  (G) Anticipates and responds appropriately to variation e.g. anatomy  (G) Deals calmly and effectively with unexpected events/complications  (G) Uses assistant(s) to the best advantage at all times  (G) Uses assistant(s) to the best advantage at all times  (G) Communicates clearly and consistently with the nurses and / or radiographers  (H) Communicates clearly and consistently with the patient if awake  (Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning)  (H) Administers or asks anaesthetist to administer Heparin IV  (F) Passes guidewires up iliac arteries without injury  (H) Selects appropriate side and screens diagnostic catheter up into suprarenal anta anta anta and protection in the patient of	E2		
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Uses instruments appropriately and safely  6(G) Proceeds at appropriate pace with economy of movement  7(G) Anticipates and responds appropriately to variation e.g. anatomy  8(G) Deals calmly and effectively with unexpected events/complications  9(G) Uses assistant(s) to the best advantage at all times  10(G) Communicates clearly and consistently with the nurses and / or radiographers  11(G) Communicates clearly and consistently with the patient if awake  12(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Passes guidewire sup iliac arteries without injury  14(T) Administers or asks anaesthetist to administer Heparin IV  14(T) Passes guidewires up iliac arteries without injury  14(T) Sectes appropriate side and screens diagnostic catheter up into suprarenal aorta  14(T) Exchanges guidewire for stiff wire on side for main body  14(T) Exchanges guidewire for stiff wire on side for main body  14(T) Exchanges guidewire for stiff wire on side for main body  14(T) Considers best angle of C-arm to open out angulated neck  14(T) Considers best angle of C-arm to open out angulated neck  14(T) Checks angio to ensure position in relation to renal arteries  14(T) Checks angio to ensure position in relation to renal arteries  14(T) Checks angio to identify position of ipsilateral internal iliac artery  14(T) Checks angio to identify position of ipsilateral internal iliac artery  14(T) Exchanges guidewire for stiff wire on contralateral intern	IT3(G)	Controls bleeding promptly by an appropriate method (open access)	
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B(G) Deals calmly and effectively with unexpected events/complications  9(G) Uses assistant(s) to the best advantage at all times  10(G) Communicates clearly and consistently with the nurses and / or radiographers  11(G) Communicates clearly and consistently with the anaesthetist  12(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Communicates clearly and consistently with the patient if awake  13(T) Administers or asks anaesthetist of administer Heparin IV  14(T) Administers or asks anaesthetist to administer Heparin IV  15(T) Passes guidewires up iliac arteries without injury  16(T) Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  17(T) Exchanges guidewire for stiff wire on side for main body  18(T) Exchanges guidewire for stiff wire on side for main body  19(T) Screens up main body of device to correct level and orientation  19(T) Considers best angle of C-arm to open out angulated neck  19(T) Checks angio to ensure position in relation to renal arteries  19(T) Checks angio to ensure position in relation to renal arteries  19(T) Delivers system withdrawn without affecting position of device  19(T) Checks angio to identify position of ipsilateral internal iliac artery  19(T) Delivers and deploys ipsilateral extension if required  19(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  19(T) Exchanges guidewire for stiff wire on contralateral internal iliac artery  19(T) Delivers and deploys contralateral device carefully whilst screening  19(T) Delivers and deploys contralateral extension if required  19(T) Checks angio to identify any endoleak	IT6(G)	Proceeds at appropriate pace with economy of movement	
19(G) Uses assistant(s) to the best advantage at all times 10(G) Communicates clearly and consistently with the nurses and / or radiographers 11(G) Communicates clearly and consistently with the anaesthetist 12(T) Communicates clearly and consistently with the patient if awake 13(T) Communicates clearly and consistently with the patient if awake 13(T) Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning) 14(T) Administers or asks anaesthetist to administer Heparin IV 15(T) Passes guidewires up iliac arteries without injury 16(T) Selects appropriate side and screens diagnostic catheter up into suprarenal aorta 17(T) Exchanges guidewire for stiff wire on side for main body 18(T) Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio 19(T) Screens up main body of device to correct level and orientation 19(T) Considers best angle of C-arm to open out angulated neck 19(T) Checks angio to ensure position in relation to renal arteries 19(T) Deploys device carefully according to manufacturer's instructions whilst screening 19(T) Delivers system withdrawn without affecting position of device 19(T) Checks angio to identify position of ipsilateral internal iliac artery 19(T) Delivers and deploys ipsilateral extension if required 19(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position 19(T) Exchanges guidewire for stiff wire on contralateral side 19(T) Checks angio to identify position of contralateral internal iliac artery 19(T) Delivers and deploys contralateral extension if required 19(T) De	IT7(G)	Anticipates and responds appropriately to variation e.g. anatomy	
Communicates clearly and consistently with the nurses and / or radiographers  [11(6)] Communicates clearly and consistently with the anaesthetist  [12(7)] Communicates clearly and consistently with the patient if awake  [13(7)] Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning)  [14(7)] Administers or asks anaesthetist to administer Heparin IV  [15(7)] Passes guidewires up iliac arteries without injury  [16(7)] Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  [17(7)] Exchanges guidewire for stiff wire on side for main body  [18(7)] Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  [19(7)] Screens up main body of device to correct level and orientation  [19(7)] Considers best angle of C-arm to open out angulated neck  [19(7)] Checks angio to ensure position in relation to renal arteries  [19(7)] Deploys device carefully according to manufacturer's instructions whilst screening  [23(7)] Delivers system withdrawn without affecting position of device  [24(7)] Checks angio to identify position of ipsilateral internal iliac artery  [25(7)] Delivers and deploys ipsilateral extension if required  [26(7)] Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  [27(7)] Exchanges guidewire for stiff wire on contralateral side  [28(7)] Checks angio to identify position of contralateral internal iliac artery  [29(7)] Delivers and deploys contralateral device carefully whilst screening  [30(7)] Delivers and deploys contralateral extension if required  [30(7)] Delivers and deploys contralateral extension if re	IT8(G)	Deals calmly and effectively with unexpected events/complications	
Communicates clearly and consistently with the anaesthetist  (12(T) Communicates clearly and consistently with the patient if awake  Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning)  (14(T) Administers or asks anaesthetist to administer Heparin IV  (15(T) Passes guidewires up iliac arteries without injury  Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  (17(T) Exchanges guidewire for stiff wire on side for main body  Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  Screens up main body of device to correct level and orientation  (20(T) Considers best angle of C-arm to open out angulated neck  (21(T) Checks angio to ensure position in relation to renal arteries  (22(T) Deploys device carefully according to manufacturer's instructions whilst screening  (23(T) Delivers system withdrawn without affecting position of device  (24(T) Checks angio to identify position of ipsilateral internal iliac artery  (25(T) Delivers and deploys ipsilateral extension if required  (26(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  (27(T) Exchanges guidewire for stiff wire on contralateral side  (28(T) Checks angio to identify position of contralateral internal iliac artery  (29(T) Delivers and deploys contralateral device carefully whilst screening  (30(T) Delivers and deploys contralateral extension if required  (29(T) Delivers and deploys contralateral extension if required  (31(T) Schanges guidewire on contralateral internal iliac artery  (29(T) Delivers and deploys contralateral extension if required  (31(T) Schanges guidewire and to identify any endoleaks  (32(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT9(G)	Uses assistant(s) to the best advantage at all times	
Communicates clearly and consistently with the patient if awake  Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning)  14(T) Administers or asks anaesthetist to administer Heparin IV  15(T) Passes guidewires up iliac arteries without injury  Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  17(T) Exchanges guidewire for stiff wire on side for main body  Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  19(T) Screens up main body of device to correct level and orientation  20(T) Considers best angle of C-arm to open out angulated neck  21(T) Checks angio to ensure position in relation to renal arteries  22(T) Deploys device carefully according to manufacturer's instructions whilst screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral extension if required  Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral extension if required  Checks angio to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT10(G)	Communicates clearly and consistently with the nurses and / or radiographers	
Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning)  14(T) Administers or asks anaesthetist to administer Heparin IV  15(T) Passes guidewires up iliac arteries without injury  16(T) Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  17(T) Exchanges guidewire for stiff wire on side for main body  Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  19(T) Screens up main body of device to correct level and orientation  20(T) Considers best angle of C-arm to open out angulated neck  21(T) Checks angio to ensure position in relation to renal arteries  22(T) Deploys device carefully according to manufacturer's instructions whilst screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  29(T) Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  31(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT11(G)	Communicates clearly and consistently with the anaesthetist	
dose of radiation by appropriate position and coning)  14(T) Administers or asks anaesthetist to administer Heparin IV  15(T) Passes guidewires up iliac arteries without injury  Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  17(T) Exchanges guidewire for stiff wire on side for main body  Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  19(T) Screens up main body of device to correct level and orientation  20(T) Considers best angle of C-arm to open out angulated neck  21(T) Checks angio to ensure position in relation to renal arteries  Deploys device carefully according to manufacturer's instructions whilst screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  32(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT12(T)	Communicates clearly and consistently with the patient if awake	
Passes guidewires up iliac arteries without injury  Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  17(T) Exchanges guidewire for stiff wire on side for main body  Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  19(T) Screens up main body of device to correct level and orientation  20(T) Considers best angle of C-arm to open out angulated neck  21(T) Checks angio to ensure position in relation to renal arteries  Deploys device carefully according to manufacturer's instructions whilst screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  29(T) Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  31(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  32(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT13(T)	Ensures adequate radiation protection (including minimiszing duration and dose of radiation by appropriate position and coning)	
Selects appropriate side and screens diagnostic catheter up into suprarenal aorta  17(T) Exchanges guidewire for stiff wire on side for main body  18(T) Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  19(T) Screens up main body of device to correct level and orientation  20(T) Considers best angle of C-arm to open out angulated neck  21(T) Checks angio to ensure position in relation to renal arteries  22(T) Deploys device carefully according to manufacturer's instructions whilst screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  26(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  29(T) Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  31(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  32(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT14(T)	Administers or asks anaesthetist to administer Heparin IV	
Exchanges guidewire for stiff wire on side for main body Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio Flushes up main body of device to correct level and orientation Flushes angle of C-arm to open out angulated neck Flushes angle to ensure position in relation to renal arteries Flushes angle to ensure position in relation to renal arteries Flushes angle to ensure position in relation to renal arteries Flushes angle to ensure position in relation to renal arteries Flushes angle to device carefully according to manufacturer's instructions whilst screening Flushes angle to identify position of ipsilateral internal iliac artery Flushes and deploys ipsilateral extension if required Flushes and deploys ipsilateral extension if required Flushes and deploys intraluminal position Flushes guidewire for stiff wire on contralateral side Flushes angle to identify position of contralateral internal iliac artery Flushes angle to identify position of contralateral internal iliac artery Flushes and deploys contralateral device carefully whilst screening Flushes and deploys contralateral extension if required Flushes angle with extended run and large field of view, to check position of stent graft and to identify any endoleaks Flushes and deploys contralateral techniques (uses moulding balloon if appropriate)	IT15(T)		
Tale(T) Flushes all sheaths and devices with Hepsal, keeps wires clean and ensures there are no bubbles or blood in contrast syringe when performing angio  Tale(T) Screens up main body of device to correct level and orientation  Tale(T) Considers best angle of C-arm to open out angulated neck  Tale(T) Checks angio to ensure position in relation to renal arteries  Tale(T) Deploys device carefully according to manufacturer's instructions whilst screening  Tale(T) Delivers system withdrawn without affecting position of device  Tale(T) Checks angio to identify position of ipsilateral internal iliac artery  Tale(T) Delivers and deploys ipsilateral extension if required  Tale(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  Tale(T) Exchanges guidewire for stiff wire on contralateral side  Tale(T) Checks angio to identify position of contralateral internal iliac artery  Tale(T) Delivers and deploys contralateral device carefully whilst screening  Tale(T) Delivers and deploys contralateral extension if required  Tale(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Tale(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT16(T)	Selects appropriate side and screens diagnostic catheter up into suprarenal aorta	
there are no bubbles or blood in contrast syringe when performing angio  19(T) Screens up main body of device to correct level and orientation  20(T) Considers best angle of C-arm to open out angulated neck  21(T) Checks angio to ensure position in relation to renal arteries  22(T) Deploys device carefully according to manufacturer's instructions whilst screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  26(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  29(T) Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  31(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT17(T)	Exchanges guidewire for stiff wire on side for main body	
Considers best angle of C-arm to open out angulated neck C21(T) Checks angio to ensure position in relation to renal arteries C22(T) Deploys device carefully according to manufacturer's instructions whilst screening C23(T) Delivers system withdrawn without affecting position of device C24(T) Checks angio to identify position of ipsilateral internal iliac artery C25(T) Delivers and deploys ipsilateral extension if required C26(T) Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position C27(T) Exchanges guidewire for stiff wire on contralateral side C28(T) Checks angio to identify position of contralateral internal iliac artery C29(T) Delivers and deploys contralateral device carefully whilst screening C30(T) Delivers and deploys contralateral extension if required C31(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks C32(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT18(T)		
C21(T) Checks angio to ensure position in relation to renal arteries  Deploys device carefully according to manufacturer's instructions whilst screening  Delivers system withdrawn without affecting position of device  C4(T) Checks angio to identify position of ipsilateral internal iliac artery  Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  C7(T) Exchanges guidewire for stiff wire on contralateral side  C8(T) Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  C9(T) Delivers and deploys contralateral extension if required  C1(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  C1(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT19(T)	Screens up main body of device to correct level and orientation	
Deploys device carefully according to manufacturer's instructions whilst screening  Delivers system withdrawn without affecting position of device  C4(T) Checks angio to identify position of ipsilateral internal iliac artery  Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  Exchanges guidewire for stiff wire on contralateral side  C8(T) Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  Oblivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT20(T)	Considers best angle of C-arm to open out angulated neck	
22(T) Screening  23(T) Delivers system withdrawn without affecting position of device  24(T) Checks angio to identify position of ipsilateral internal iliac artery  25(T) Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  27(T) Exchanges guidewire for stiff wire on contralateral side  28(T) Checks angio to identify position of contralateral internal iliac artery  29(T) Delivers and deploys contralateral device carefully whilst screening  30(T) Delivers and deploys contralateral extension if required  31(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT21(T)	Checks angio to ensure position in relation to renal arteries	
Checks angio to identify position of ipsilateral internal iliac artery  Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  Exchanges guidewire for stiff wire on contralateral side  Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  Obelivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT22(T)		
Delivers and deploys ipsilateral extension if required  Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  Exchanges guidewire for stiff wire on contralateral side  Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  Delivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT23(T)	Delivers system withdrawn without affecting position of device	
Passes contralateral guidewire and catheter into short limb of main body and verifies intraluminal position  [27(T)] Exchanges guidewire for stiff wire on contralateral side  [28(T)] Checks angio to identify position of contralateral internal iliac artery  [29(T)] Delivers and deploys contralateral device carefully whilst screening  [30(T)] Delivers and deploys contralateral extension if required  [31(T)] Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  [32(T)] Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT24(T)	Checks angio to identify position of ipsilateral internal iliac artery	
verifies intraluminal position  T27(T) Exchanges guidewire for stiff wire on contralateral side  T28(T) Checks angio to identify position of contralateral internal iliac artery  T29(T) Delivers and deploys contralateral device carefully whilst screening  T30(T) Delivers and deploys contralateral extension if required  T31(T) Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  T32(T) Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT25(T)	Delivers and deploys ipsilateral extension if required	
Checks angio to identify position of contralateral internal iliac artery  Delivers and deploys contralateral device carefully whilst screening  Oblivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT26(T)		
Delivers and deploys contralateral device carefully whilst screening  Delivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT27(T)	Exchanges guidewire for stiff wire on contralateral side	
T30(T) Delivers and deploys contralateral extension if required  Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT28(T)	Checks angio to identify position of contralateral internal iliac artery	
Checks angio with extended run and large field of view, to check position of stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT29(T)	Delivers and deploys contralateral device carefully whilst screening	
stent graft and to identify any endoleaks  Solves primary endoleaks with appropriate techniques (uses moulding balloon if appropriate)	IT30(T)	Delivers and deploys contralateral extension if required	
if appropriate)	IT31(T)		
	IT32(T)		
I. Post operative management	VI. Post	operative management	

PM1	Ensures the patient is transferred safely from the operating table to bed	
PM2	Constructs a clear operation note, and completes the necessary registry/audit forms	
PM3	Records clear and appropriate post operative instructions	
PM4	Deals with specimens. Labels and orientates specimens appropriately - NOT APPLICABLE TO THIS PROCEDURE	
PM5	Checks pulses and limb-perfusion at the end of procedure	

## Global Summary

Assessor satisfaction with PBA

Level at v	Tick as appropriate	
Level 0	Insufficient evidence observed to support a summary judgement	
Level 1	Unable to perform the procedure, or part observed, under supervision	
Level 2	Able to perform the procedure, or part observed, under supervision	
Level 3	Able to perform the procedure with minimum supervision (needed occasional help)	
Level 4	Competent to perform the procedure unsupervised (could deal with complications that arose)	

Comments by Assessor (including	g strengths and areas for devel	elopment):			
Comments by Trainee:					
Trainee Signature:		Assessor Signature:			
Assessor training?	[ ] No [ ] Written [ ] Web/CD [ ] Workshop				
Time taken for feedback	mins				
	Not at all	Highly			
Trainee satisfaction with PBA	1 2 3 4 5 6	7 8 9 10			

9 10