

Endovascular Surgery Procedure-Based Assessment Validation

Specialty: Vascular Surgery	Procedure:
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Competencies and Definitions		<u>P</u> ositive Behaviours (doing what should be done)	<u>N</u> egative Behaviours (doing what shouldn't be done)	<u>N</u> egative – <u>P</u> assive Behaviours (not doing what should be done)
I. Consent				
C1	Demonstrates sound knowledge of indications and contraindications including alternatives to surgery	Explains using examples relevant to the patient: <ul style="list-style-type: none"> ▪ Principle benefit of operation ▪ Subsequent improvement of function ▪ Limitations of surgery ▪ Consequences of not having surgery 	Expresses unrealistic views of the improvement in function expected following the procedure	Fails to point out the limitations of the operation
C2	Demonstrates awareness of sequelae of operative or non operative management	Describes consequences, agrees expectations and checks patient understanding	Is over confident in describing consequences, reinforces patient's unrealistic expectations	Fails to mention key inevitable consequences
C3	Demonstrates sound knowledge of complications of surgery	Explains in priority order the complications likely to occur in terms of commonality and in terms of seriousness	Spends time explaining rare complications and fails to mention commoner ones	Misses out one or more major complication(s) when explaining to trainer or patient
C4	Explains the perioperative process to the patient and/or relatives or carers and checks understanding	Describes what will happen throughout the management of the condition, indicating clear post operative milestones, giving a rough idea of time involved and specifying who will do what. Questions the patient to check that their expectations are realistic and they have understood fully	Uses technical terms, explains too quickly and does not check understanding	Misses out common events, particularly those likely to happen in the early post operative period
C5	Explains likely outcome and time to recovery and checks understanding	Expresses sensible prognosis and clearly has knowledge of the current outcome data	Expresses over optimistic outcomes and glosses over realistic difficulties	Fails to check that the patient has understood by actively listening to the patient's reiteration of what is being

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II. Pre operative planning				
PL1	Demonstrates recognition of anatomical and pathological abnormalities (and relevant co-morbidities) and selects appropriate operative strategies/techniques to deal with these	Articulates the realistic clinical findings against any investigative findings and achieves a balance between the two	Describes an operative plan without the full use of the clinical and investigative material	Fails to take into account specific medical conditions that might limit the technical choices
PL2	Demonstrates ability to make reasoned choice of appropriate equipment, materials or devices (if any) taking into account appropriate investigations e.g. Duplex ultrasound, CT scan	Draws, writes or iterates a pre operative plan		Fails to check the notes for relevant or unexpected findings. Does not take into account investigative findings when planning or selecting the equipment
PL3	Checks materials, equipment and device requirements with operating room staff	Either personally visits or rings up the operating theatre to check on equipment availability	Delegates the task to a more junior team member with no plans to check the instruction has been carried out	Fails to communicate with the theatre staff
PL4	Ensures the operation site is marked where applicable	Personally marks the site	Delegates the task of marking the site to a junior doctor or nurse	Fails to check that the site has been marked
PL5	Checks patient records, personally reviews investigations	Ensures that the relevant information such as investigative findings are present, checks wristband	During the procedure asks theatre staff to look something up in the notes	Fails to check notes to ensure all information is available that is needed
III. Pre operative preparation				
PR1	Checks in theatre that consent has been obtained	Checks the consent form in the notes	Leaves the consent checking to nurses or junior medical staff	Makes no effort to check consent form in the notes
PR2	Gives effective briefing to theatre team	Checks with nurse that they have all equipment needed ready to hand and discusses planned actions	Complains when something is not available during the procedure. Asks for something which results in theatre staff going on a hunt for it	Makes no attempt to discuss operation with team
PR3	Ensures proper and safe positioning of the patient on the operating table	Prior to scrubbing supervises the positioning of the patient	Delegates the task to a theatre orderly and does not check	Concentrates on the process of scrubbing up while the patient is being transferred onto the operating table
PR4	Demonstrates careful skin preparation	Supervises painting of the operative field, ensures the material covers the whole surface	Paints (or supervises) the operative field leaving gaps or inadequate coverage	Delegates painting to an unsupervised member of the team or fails to check that the area has been adequately painted
PR5	Demonstrates careful draping of the patient's operative field	Drapes (or supervises draping of) the operative field to adequately expose site ensuring only prepared site is exposed	Exposes an inadequate area for the incision/access	Fails to secure drapes adequately

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PR6	Ensures general equipment and materials are deployed safely (e.g. guidewires, sheaths, catheters, devices, contrast injector, etc)	Checks with the scrub nurse that guides, catheters, devices, etc have been flushed, locked and appropriately installed	Delegates the task unsupervised to the scrub nurse or orderly	Fails to brief the team the planning of index procedure
PR7	Ensures appropriate drugs administered	Checks notes, liaises with anesthetic team to ensure prescribed drugs administered	Assumes drugs have been administered without checking	Fails to check with anaesthetic team that drugs have been administered
PR8	Arranges for and deploys specialist supporting equipment (e.g. image intensifiers) effectively	Briefs and discusses with the team where equipment is to be placed relative to the operative field	Takes no regard of where equipment is placed such as diathermy scabbard and/or places it in a position where the devices can't be used safely	Ignores the set up procedure in the immediate pre operative period and has a conversation with a third party
IV. Vascular access for endovascular surgery				
E1	Demonstrates knowledge of optimum vascular access / skin incision	Verbally states or marks with a pen the anatomical landmarks prior to making the incision / vessel puncture	Makes an incision prior to vessel puncture that is clearly too small or too large	Does not enlarge / dilate skin incision when struggling for access
E2	Achieves a smooth percutaneous vessel puncture, passage of guidewire and placement of appropriate sheath with or without ultrasound guidance, demonstrates decision to open cutdown for exposure if deems necessary.	Gives a running commentary to the trainer of the access procedure and structures encountered	Describes the procedure or structure encountered during access procedure wrongly	Tries to maintain the standard approach despite the fact that access is proving difficult
E3	Completes a sound vascular access haemostatic procedure where appropriate	Demonstrates knowledge and techniques in preparing and deploying vascular access closure devices	Deploying vascular access closure devices not according to "instruction for use"	Not seek for trainer's assistance despite the fact that deployment procedure is unsmooth
E4	Protects the wound with dressings, and drains placement where appropriate	Personally supervises the application of the wound dressing	Walks away from the operating table without briefing the assistant or the nurse on what they require to cover the wound	Fails to specify required dressing
V. Intra operative Technique				
IT1	Follows an agreed, logical sequence or protocol for the procedure	Justifies actions at any point in procedure	Spends a lot of time repeating similar unsuccessful manoeuvre, eg using similar sets of guidewire and catheter for vessel cannulation / crossing stenosis	When a difficulty is encountered fails to complete manoeuvre, not seeking opinion from trainer
IT2	Consistently handles guidewires, catheters and sheaths well	Demonstrates self-awareness of guidewires, catheters and sheath length outside access site	Proceed procedure at any time point with violation of Seldinger's technique	Fails to recognise loss of guidewire / sheath at vessel access site

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IT3	Controls bleeding promptly by an appropriate method	Responds calmly by applying pressure initially. Briefs the team about what will need to be done – e.g. asks assistant to be ready for diathermy	Grabs in a non systematic manner at soft tissue and indiscriminately applies diathermy. Continues with a dissection despite welling up of blood in the field	Fails to act calmly. Fails to brief team. Fails to control blood flow.
IT4	Demonstrates a sound technique and appropriate choices of guidewires, catheters and sheaths in vessel cannulation / crossing stenosis	Demonstrates dexterity with appropriate speed in vessel cannulation / crossing stenosis using the chosen sets of guidewires, catheters and sheaths	Persistence in using similar sets of guidewires, catheters and sheaths with repeated failure in same manoeuvre, risking the team of unnecessary radiation exposure	Fails to change sets of guidewires, catheters and sheaths with repeated failure in same manoeuvre
IT5	Practice radiation protection and safety measures	Apart from self radiation protection, executes protection measures to minimize radiation exposure to the operative team	Using unnecessary or repeated fluoroscopic / digital subtraction imaging in difficult parts of procedure without considering alternatives	Trainer to direct the radiation protection measures
IT6	Proceeds at appropriate pace with economy of movement	Lets the nurse know what is to be done or needed next	Stops and starts, picking things up and then putting them down without using them. Spends a long time on a task not appropriate to the pace	
IT7	Anticipates and responds appropriately to variation e.g. vascular anomaly / normal variant	When encountering something unexpected stops and verbalises concerns with the team	Persists in a task that is proving difficult and has to be stopped	Fails to recognize anatomical variation and has to be stopped
IT8	Deals calmly and effectively with unexpected events/complications	Verbalises that there is a problem and briefs the team on what needs to happen next	Verbalises negative concerns and issues conflicting instructions. Tries to continue inappropriately (has to be stopped)	Fails to brief the assistant adequately
IT9	Uses assistant(s) to the best advantage at all times	Briefs assistants and places them and the instruments where they are needed	Accepts whatever assistant does irrespective of whether or not appropriate	Fails to brief assistant and expresses irritation when positions are not what are required
IT10	Communicates clearly and consistently with the scrub team	Sets positive tone with appropriate greeting. Asks for instruments clearly. Informs as to next steps. Asks for instruments by correct name	Uses rough or inappropriate tone of voice or words. Uses slang or 'local' descriptions of instruments	Gives no greeting, does not ask for anything (but expects to be given it)
IT11	Communicates clearly and consistently with the anaesthetist	Sets positive tone with appropriate greeting. Sets clear goals and expectations	Proceeds with next step of procedure without anaesthetic advice (where required)	Fails to inform anaesthetist of key phase requiring anaesthetic cooperation
VI. Post operative management				
PM1	Ensures the patient is transferred safely from the operating table to bed	Personally takes part in the transfer of the patient from the operating table to the bed.	Leaves the operating room prior to the transfer	Fails to check patient once they are in bed

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PM2	Constructs a clear operation note	Makes a legibly written or clearly dictated note	Writes illegibly, mumbles on dictaphone	Fails to write or dictate anything at all
PM3	Records clear and appropriate post operative instructions	Writes in clear text a list of post operative instructions in the notes	Gives verbal instructions to a passing nurse	Fails to write anything in the notes at all
PM4	Deals with specimens. Labels and orientates specimens appropriately	Personally arranges specimens for pathologist	Delegates checking labels to junior	Does not label specimens