

2021 RCOA Anaesthetics Curriculum - Annex E - Stage 3 Special Interest Areas; Anaesthesia for vascular surgery

Key Capabilities A

Capable of providing advanced cardiovascular risk assessment relating to vascular surgery.

Suggested Reading:

[ESC 2022 Guidelines on cardiovascular assessment and management of patients undergoing non-cardiac surgery](#)

[Canadian Cardiovascular Society Guidelines on Perioperative Cardiac Risk Assessment and Management for Patients Who Undergo Noncardiac Surgery \(onlineccj.ca\)](#)

[Preoperative Assessment and Optimisation for Adult Surgery | Centre for Perioperative Care \(cpoc.org.uk\)](#)

[Durrand J and Danjoux G. Preoperative assessment of patients for major vascular surgery. Anaesthesia & Intensive Care Medicine. Volume 20, Issue 5, May 2019, Pages 257-261 .](#)

[Zarinsefat A and Henke P. Update in preoperative risk assessment in vascular surgery patients J Vasc Surg 2015;62:499-509.](#)

Key Capabilities B

Manages the preoperative care of elective and emergency open AAA repair.

Suggested Reading:

[Abdominal aortic aneurysm: diagnosis and management - NICE guideline NG156,2020.](#)

[Abdominal aortic aneurysm: diagnosis and management – Evidence review L: Anaesthesia and analgesia for people having surgical repair of an abdominal aortic aneurysm – NICE guideline NG156, 2020.](#)

[Perioperative care in open aortic vascular surgery: A consensus statement by the Enhanced Recovery After Surgery \(ERAS\) Society and Society for Vascular Surgery - Journal of Vascular Surgery \(jvascsurg.org\) June 2022](#)

[Howell SJ. Abdominal aortic aneurysm repair in the United Kingdom: an exemplar for the role of anaesthetists in perioperative medicine. British Journal of Anaesthesia, 119 \(S1\): 15–22, 2017.](#)

[Duncan, A. Anaesthesia for open abdominal aortic surgery. Anaesthesia and Intensive Care Medicine 23\(4\): 222-228, 2022](#)

[Management and Transfer of Patients with a Diagnosis of Ruptured Abdominal Aortic Aneurysm to a Specialist Vascular Centre – RCEM Best Practice Guideline, 2019.](#)

[Cheesman M. Anaesthesia for the ruptured aortic aneurysm. Vascular Anaesthesia 17\(5\): 243-248, 2016.](#)

Key Capabilities C

Manages the preoperative care of complex endovascular repair of thoracic and aortic aneurysm.

Suggested Reading:

[NEJM 2010 – Endovascular versus Open Repair of Abdominal Aortic Aneurysm \(EVAR 1 Trial\):](#)

[NEJM 2010 – Endovascular Repair of Aortic Aneurysm in Patients Physically Ineligible for Open Repair \(EVAR 2 Trial\):](#)

[Lancet 2016 - Endovascular versus open repair of abdominal aortic aneurysm in 15-years' follow-up of the UK endovascular aneurysm repair trial 1 \(EVAR trial 1\): a randomised controlled trial](#)

[Anaesthesia and Intensive Care Medicine 2019 – Anaesthesia for endovascular aneurysm repair](#)

[Society for Vascular Surgery clinical practice guidelines of thoracic endovascular aortic repair for descending thoracic aortic aneurysms 2020](#)

[BJA Ed 2022 – Anaesthesia for endovascular repair of ruptured abdominal aortic aneurysms](#)

[BJA 2016 – Spinal cord protection in aortic endovascular surgery](#)

Key Capabilities D

Manages the perioperative care for patients requiring carotid endarterectomy under general and regional anaesthesia

Suggested Reading:

[European Society for Vascular Surgery \(ESVS\) 2023 Clinical Practice Guidelines on the Management of Atherosclerotic Carotid and Vertebral Artery Disease](#)

[CEA review BJA 2007](#)

[GALA trial summary Lancet 2008](#)

[RA or GA for CEA review 2012](#)

[Regional anaesthesia for carotid endarterectomy Review BJA 2015](#)

[NYSORA US guided cervical plexus block](#)

[Arterial pressure management and carotid endarterectomy Review BJA 2009](#)

[Anesthesia Management for Carotid Endarterectomy: Review Article EJCM 2019](#)

Key Capabilities E

Provides perioperative care of patients requiring vascular access procedure for renal dialysis.

Suggested Reading:

[Anaesthetic management for vascular access surgery BJA CPD 2017](#)

[RA for AVF BJA editorial 2021](#)

Key Capabilities F

Appreciates the complexities in organising regional vascular services.

Suggested Reading:

[Guidelines for the Provision of Anaesthesia Services for Vascular Procedures RCOA 2022](#)

[GIRFT VASCULAR SERVICES REPORT 2018](#)

[Provision of Services for People with Vascular Disease 2021](#)

[PAD QIF March 2019 v2.pdf \(vascularsociety.org.uk\)](#)

[Association between neuraxial anaesthesia or general anaesthesia for lower limb revascularisation surgery in adults and clinical outcomes: population based comparative effectiveness study | The BMJ](#)

[Editor's Choice - European Society for Vascular Surgery \(ESVS\) 2020 Clinical Practice Guidelines on the Management of Acute Limb Ischaemia](#)