

<u>Notes</u>

Abnormal ECG: LBBB, LVH with strain (anterolateral ST depression +/- T inversion) or pathological Q waves are predictive of LVSD. If there has been no change in 12-lead ECG since the last echo, a clinically relevant change in LV function is very unlikely. Newly detected AF: preoperative echo is not routinely indicated, if there are no symptoms or signs of heart failure Biomarkers: Hs-cTnI or NT-proBNP can be measured in high-risk cases to stratify the risk of perioperative death and CV complications Valves: Echo surveillance interval depends on severity of valve disease on last echo – at discretion of cardiology/echo department

Simple Congenital¹: e.g. surgically repaired ASD or VSD with normal post op echo

Complex congenital²: More complex congenital cardiac pathology such as Tetralogy of Fallot or Transposition of the great arteries. Suggest discussion with Cardiologist in this patient group if Consultant Anaesthetist has concerns.

Table of Surgical Procedures and Risk Categorisation

Table 3 Surgical risk estimate according to type of surgery or intervention^{a,b}

Low-risk: < 1%	Intermediate-risk: 1–5%	High-risk: > 5%
Superficial surgery	Intraperitoneal: splenectomy, hiatal hernia	Aortic and major vascular surgery
Breast	repair, cholecystectomy	Open lower limb revascularization or
Dental	 Carotid symptomatic (CEA or CAS) 	amputation or thromboembolectomy
Endocrine: thyroid	Peripheral arterial angioplasty	Duodeno-pancreatic surgery
• Eye	 Endovascular aneurysm repair 	Liver resection, bile duct surgery
Reconstructive	Head and neck surgery	Oesophagectomy
 Carotid asymptomatic (CEA or CAS) 	 Neurological or orthopaedic: major (hip 	Repair of perforated bowel
 Gynaecology: minor 	and spine surgery)	Adrenal resection
Orthopaedic: minor (meniscectomy)	 Urological or gynaecological: major 	Total cystectomy
· Urological: minor (transurethral resection	Renal transplant	Pneumonectomy
of the prostate)	Intra-thoracic: non-major	Pulmonary or liver transplant

CAS = carotid artery stenting; CEA = carotid endarterectomy.

^aSurgical risk estimate is a broad approximation of 30-day risk of cardiovascular death and myocardial infarction that takes into account only the specific surgical intervention, without considering the patient's comorbidities.

^bAdapted from Glance et al.¹¹

*Sourced from ESC/ESA Guidelines on non-cardiac Surgery: cardiovascular assessment and management