

## Annex 1

### Risk Stratification Before Elective Surgery (adapted) (<https://www.uclahealth.org/anes/risk-stratification>)

Surgical risk stratification

<b>Surgical risk</b>	<b>Types of surgery</b>
Low – Intermediate Risk	<p><b>Procedures associated with minimal physiologic effect and /or moderate changes in hemodynamics, risk of blood loss</b></p> <ul style="list-style-type: none"><li>• Hernia repair</li><li>• ENT procedures without planned flap or neck dissection</li><li>• Diagnostic cardiac catheterization</li><li>• Interventional radiology and endoscopy with stent placement</li><li>• Cystoscopy</li><li>• Intracranial and spine surgery</li><li>• Gynaecologic and urologic surgery</li><li>• Intra-abdominal surgery without bowel resection</li><li>• Intra-thoracic surgery without lung resection</li><li>• Cardiac catheterization procedures including electrophysiology studies, ablations, AICD, pacemaker</li></ul>
High – Very High Risk	<p><b>Procedures with possible significant effect on hemodynamics, blood loss and /or major impact on hemodynamics, fluid shifts, possible major blood loss</b></p> <ul style="list-style-type: none"><li>• Colorectal surgery with bowel resection</li><li>• Kidney Transplant</li><li>• Major joint replacement (shoulder, knee, and hip)</li><li>• Open radical prostatectomy, cystectomy</li><li>• Major oncologic general surgery or gynaecologic surgery</li><li>• Major oncologic head and neck surgery</li><li>• Aortic surgery</li><li>• Cardiac Surgery</li><li>• Intra-thoracic procedures with lung resection</li><li>• Major transplant surgery (heart, lung, liver)</li></ul>

### Patient Medical Risk Stratification

Pre-existing medical problems confer risk for perioperative complications, including cardiac decompensation, respiratory failure, acute kidney injury, and postoperative delirium or cognitive dysfunction.

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<b>Patient risk</b>	<b>Patient's commorbidity</b>
Low risk	<ul style="list-style-type: none"><li>• No known medical problems</li><li>• Hypertension</li><li>• Hyperlipidaemia</li><li>• Asthma</li><li>• Other chronic, stable medical condition without significant functional impairment</li><li>• Age 70 or older</li><li>• Non-insulin dependent diabetes</li><li>• History of treated, stable CAD</li><li>• Morbid obesity (BMI &gt; 30)</li><li>• Anaemia (haemoglobin &lt;10)</li><li>• Mild renal insufficiency</li></ul>
High risk	<ul style="list-style-type: none"><li>• Recent coronary stent</li><li>• Chronic CHF</li><li>• Insulin-dependent diabetes mellitus</li><li>• Renal insufficiency: creatinine &gt; 2</li><li>• Moderate COPD: FEV1 50% to 70%</li><li>• Obstructive sleep apnoea</li><li>• History of stroke or TIA</li><li>• Known diagnosis of dementia</li><li>• Chronic pain syndrome</li><li>• Unstable or severe cardiac disease</li><li>• Severe COPD: FEV1 &lt;50% predicted</li><li>• Use oxygen at home</li><li>• Pulmonary hypertension</li><li>• Severe liver disease</li><li>• Severe frailty; physical incapacitation</li></ul>

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