critical illness
injury
perioperative period

↓ venous oxygen saturations
↓ O₂ delivery
  anaemia
  haemorrhage
  hypoxia
  hypovolemia
  heart failure

↑ O₂ consumption
  agitation
  pain
  fever
  shivering
  respiratory failure
  ↑ metabolic demand

↑ venous oxygen saturations
↑ O₂ delivery
  oxygen therapy
  blood transfusion
  intravenous fluid
  inotropics
  ↑ cardiac output

↓ O₂ consumption
  sedation
  analgesia
  hypothermia
  mechanical ventilation
  ↓ O₂ extraction
  shunting (sepsis)
  cell death

↓ O₂ extraction

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  sedation
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  cell death