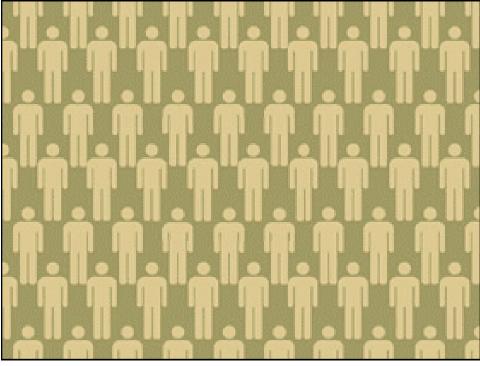
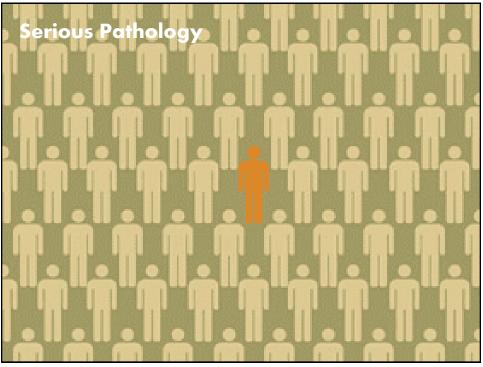
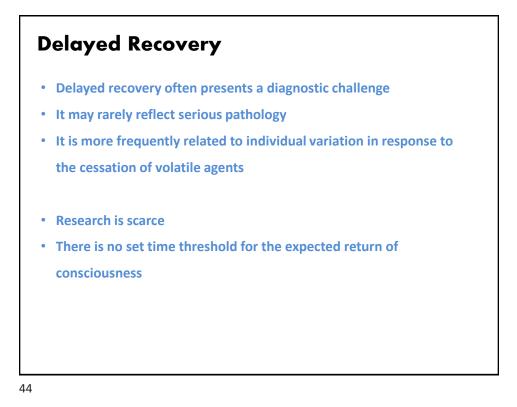
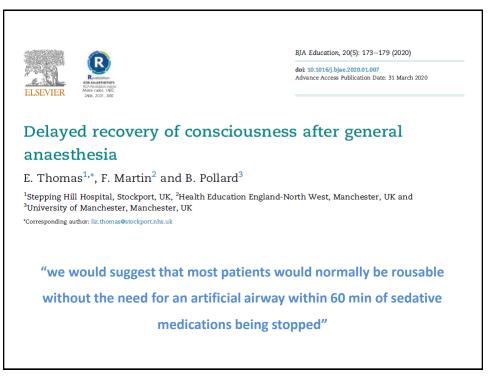


Adequate Recovery from GA • A state of consciousness of an individual when they awaken or become rousable and aware of their surroundings and identity

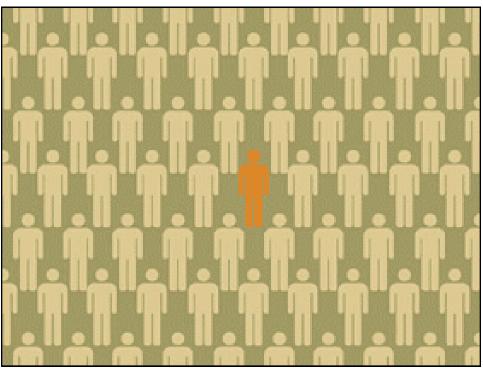








<section-header> Case Scenario A 75-yr-old man with well-controlled hypertension and mild COPD has undergone a cobotic total prostatectomy. The procedure was long and technically difficult, with a total operating time of 5 h. The patient received a TIVA general anaesthetic with an atracurium infusion and was given 10mg IV morphine 30 minutes before the end of the procedure. Sixty minutes after the end of anaesthesia, the patient breathing spontaneously through a tracheal tube but not rousable. His observations are stable, he has no apparent focal neurology, but he is not regaining consciousness. An arterial blood gas shows a PaCO₂ of 6.3 kPa but all other values are within normal reference ranges.



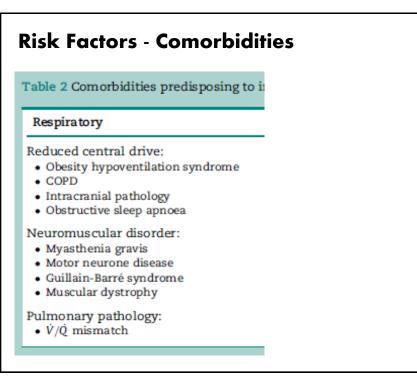


Risk Factors

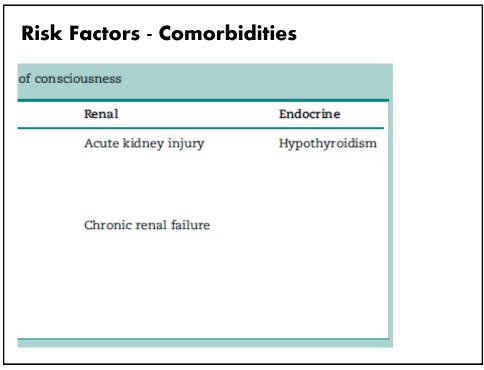
Patient Factors

- Extremes of Age
- Genetic Variation
- Body habitus
- Comorbidities

able 2 Comorbidities predisposing to increased risk of delayed return of consciousness			
Respiratory	Hepatic	Renal	Endocrine
Reduced central drive: • Obesity hypoventilation syndrome • COPD • Intracranial pathology • Obstructive sleep apnoea	Acute hepatic failure	Acute kidney injury	Hypothyroidism
Neuromuscular disorder: • Myasthenia gravis • Motor neurone disease • Guillain-Barré syndrome • Muscular dystrophy	Chronic hepatic failure	Chronic renal failure	
Pulmonary pathology: • V/Q mismatch			



Risk Factors - Comorbidities					
ed risk of delayed return of consciousness					
Hepatic	Renal				
Acute hepatic failure	Acute kidney injury				
Chronic hepatic failure	Chronic renal failure				



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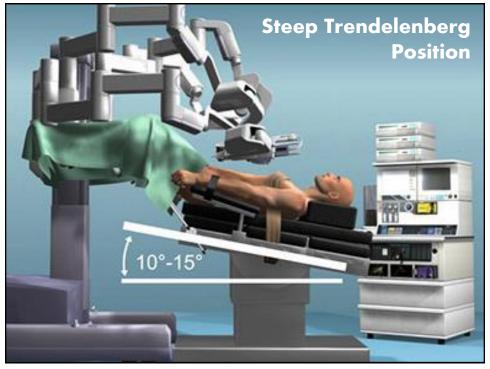
Risk Factors

Patient Factors

- Extremes of Age
- Genetic Variation
- Body habitus
- Comorbidities

Anaesthetic / Surgical Factors

- CNS Surgery
- Cardiac Surgery
- Long duration of surgery or anaesthesia



Pharmacological	Rare causes	
Serotonin syndrome		Seizures (including non-convulsive status epilepticus)
Opioids	Hypo/ hypernatraemia	Myxoedema coma
Neuromuscular blockers	Hypothermia	Functional coma
I.V. anaesthetic agents		Brainstem stroke
Volatile anaesthetic agents		
Central anticholinergic syndrome		

