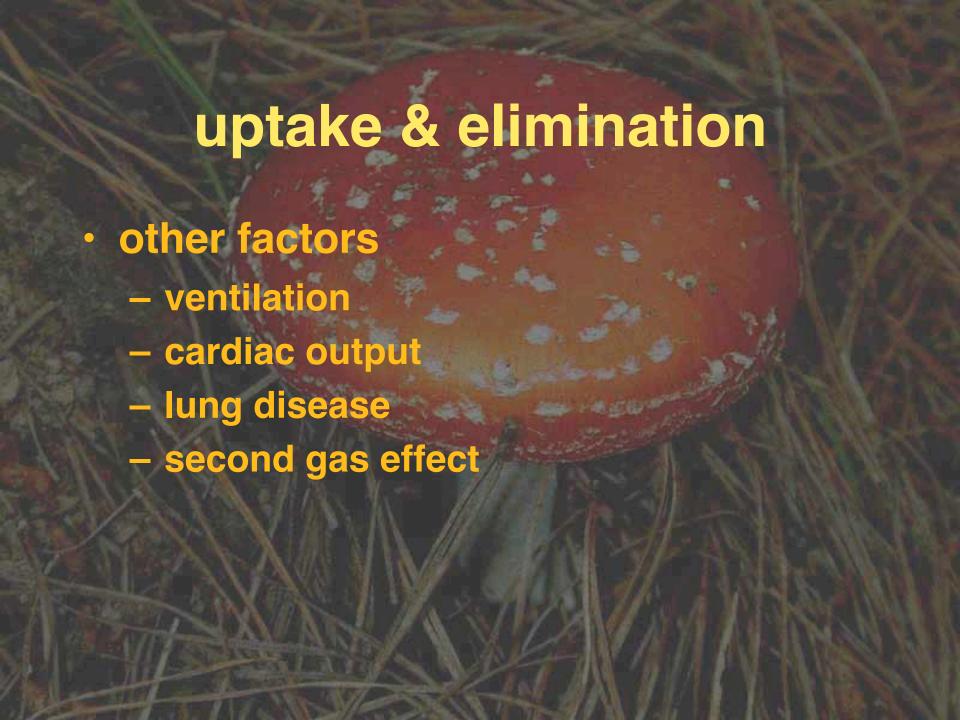


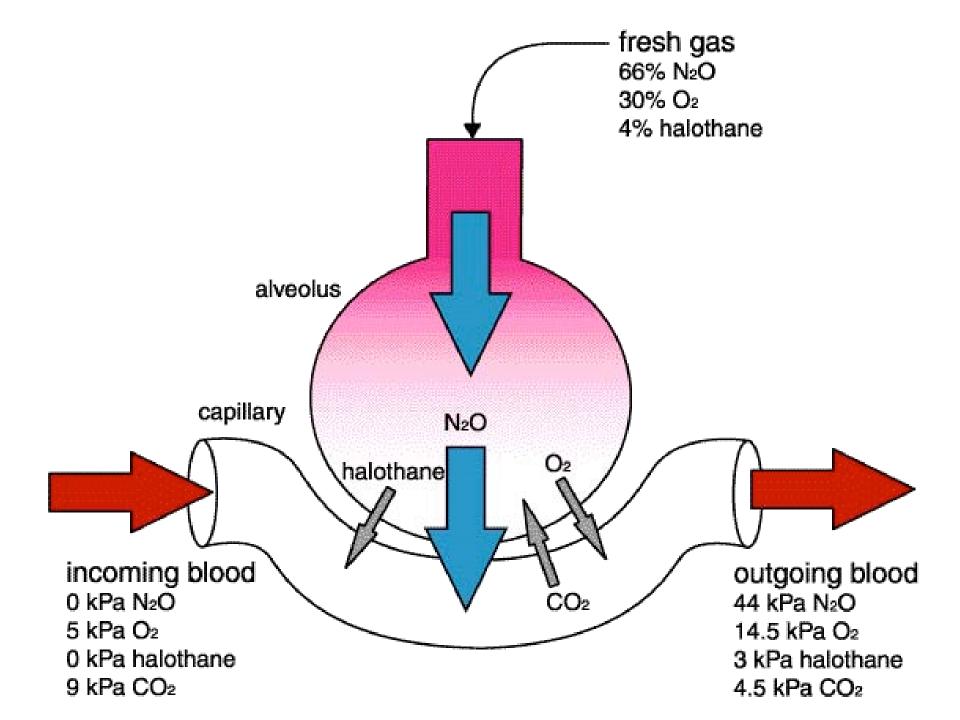


insoluble anaesthetic eg, nitrous oxide

soluble anaesthetic eg, ether

time







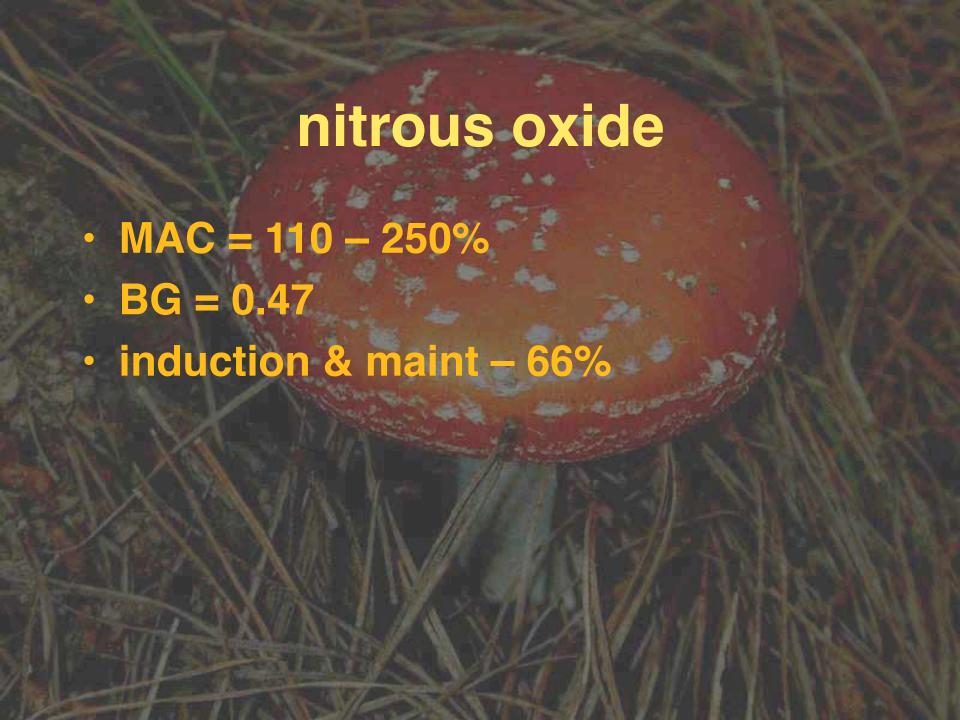


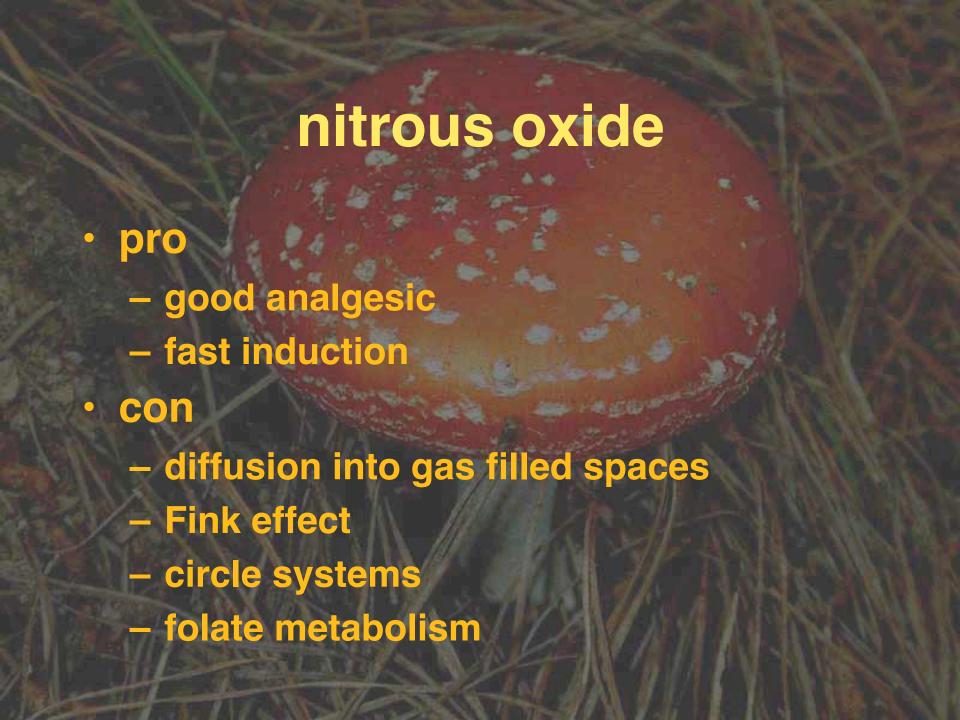




oxides of nitrogen

- · NO
 - nitric oxide vasodilator
- N₂O
 - nitrous oxide anaesthetic
- NO₂
 - nitrogen dioxide environmental pollutant









halothane • MAC = 0.9• BG = 2.4 svp = 33 kPa • induction – 2 – 5% maintenance – 0.5 – 2%



- respiratory depression
- reduced cardiac output
- vasodilatation
- sensitises heart to adrenaline
- (halothane hepatitis)
- (malignant hyperthermia)











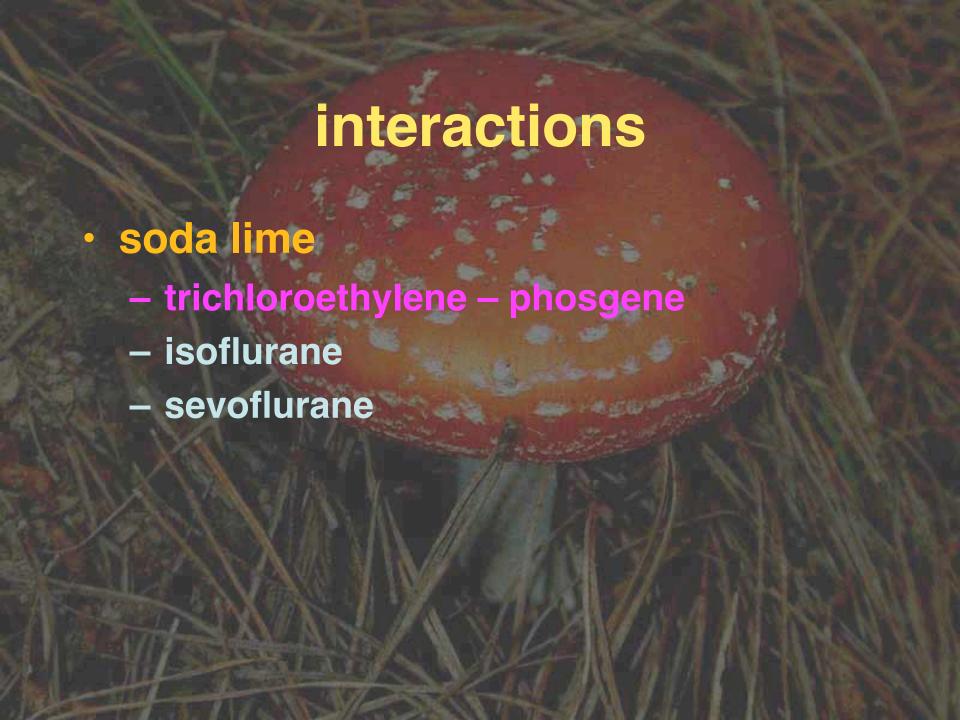


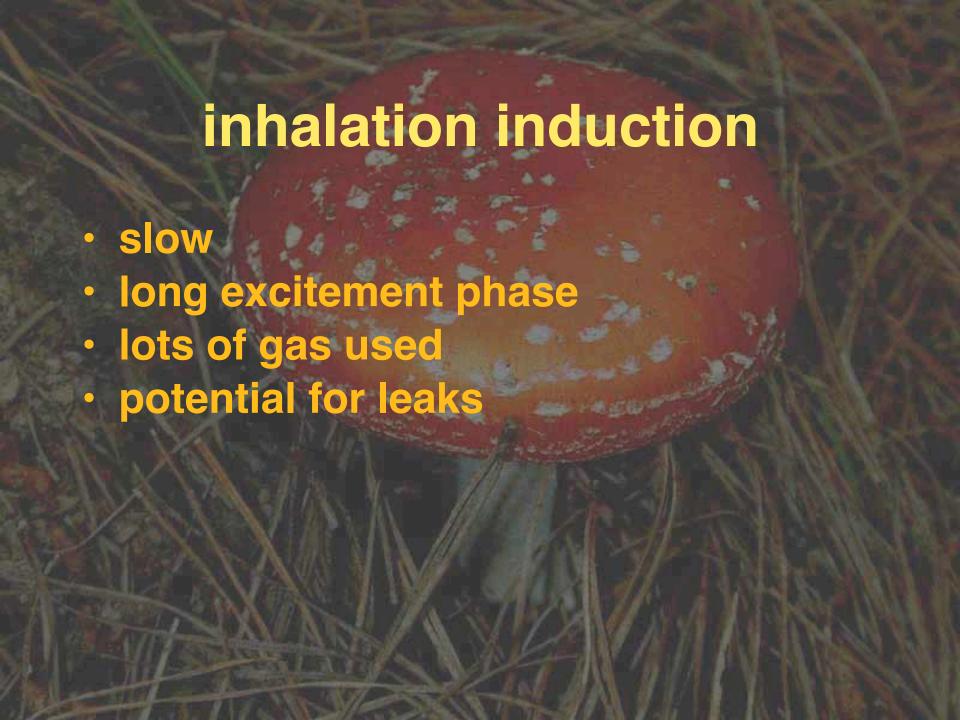
ether • mac = 3% • BG = 12 svp = 59 kPa induction – as much as possible maintenance – 3 – 10%

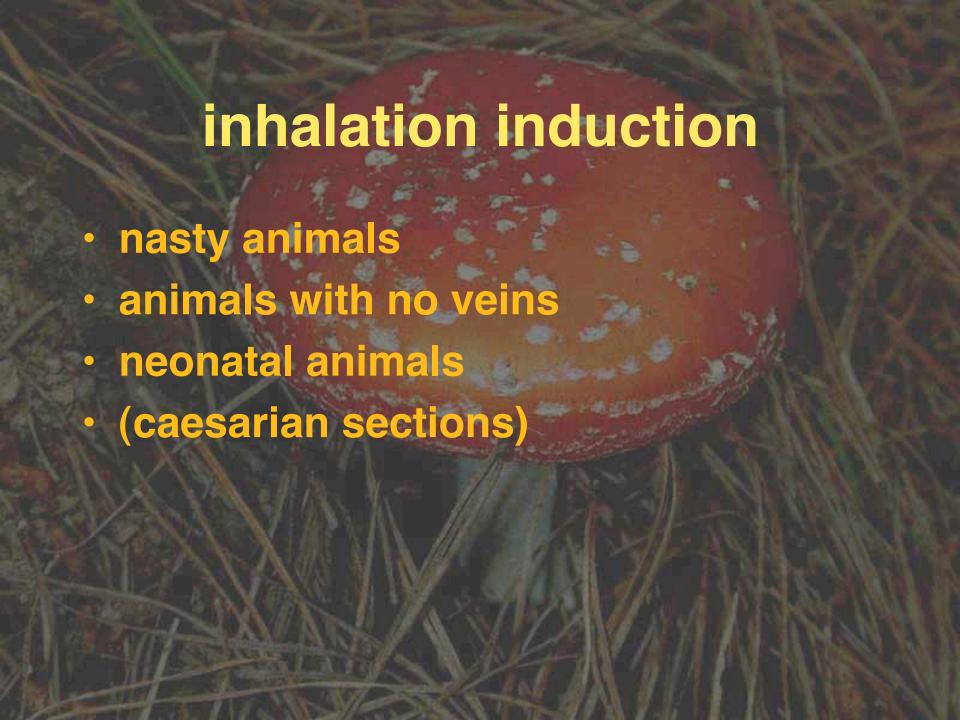
isoflurane • MAC = 1.9% • BG = 1.4 svp = 32 kPa induction – 2 – 3% maintenance – 0.5 – 2.5%

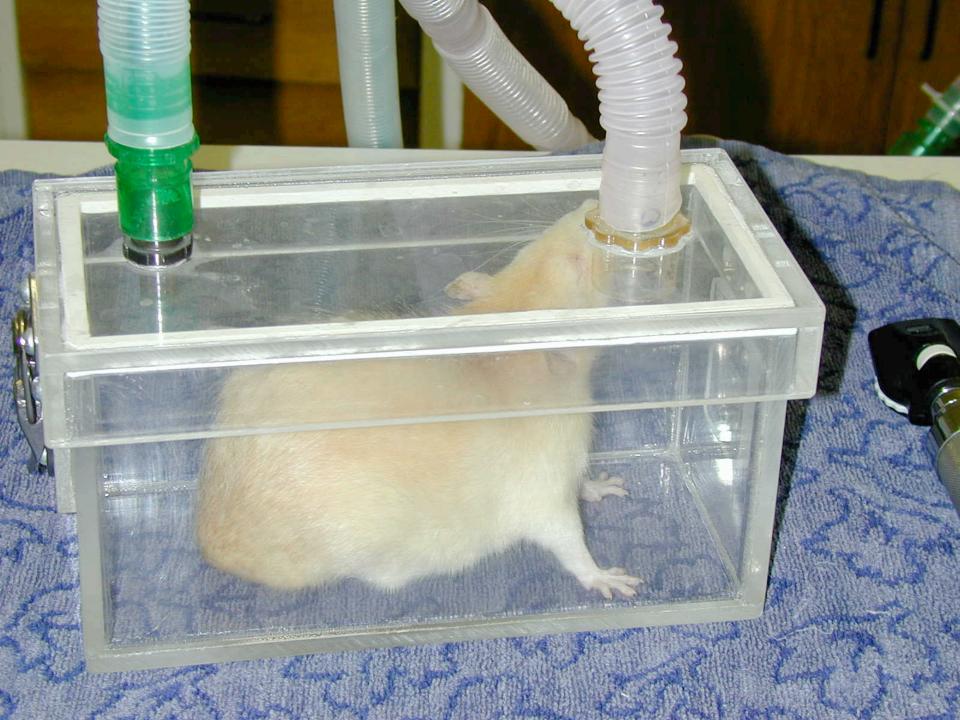
sevoflurane • MAC = 2.5% • BG = 0.6• svp = 21 kPa • induction – 5 – 7% maintenance – 0.5 – 3%























inhalation anaesthetics

- used to maintain anaesthesia after induction with injectable drug
- relatively insoluble drugs produce a relatively fast induction and recovery
- halothane produces dose dependent respiratory and cardiovascular depression but not much analgesia
- drugs are eliminated by respiration in overdose, ventilate with 100% oxygen