Intravenous (TIVA) vs. Inhalation Anesthesia⁶

	Intravenous Anesthesia	Inhalational Anesthesia
Method of measurements	Blood concentration (not easily obtained)	Minimum alveolar concentration - concentration of an inhaled agent in the alveoli required to prevent movement in response to a surgical stimulus in 50 percent of patients
Common Agents	Propofol (sedative agent) WITH Opioid analgesic (fentanyl, remifentanil, etc.)	 Sevoflurane Desflurane Haloflurane Isoflurane Nitrous oxide
Advantages	 Decreased postoperative nausea and vomiting (PONV) compared to inhalational anesthesia Smooth emergence experience, with less of a hangover effect Decreased cognitive impairment issues with propofol Rapid titration ability with propofol Better patient experience with propofol Shorter recovery room times Quicker extubation Clinicians are not exposed to operating room contamination from inhaled gas 	 Ease of administration Greater analgesia End-tidal anesthetic concentration (ETAC) monitoring
Disadvantages	 No equivalent to end-tidal anesthetic concentration (ETAC) monitoring Increased risk for anesthesia awareness 	 Confound evoked potential monitoring Increased risk for postoperative nausea and vomiting (PONV)
Real time monitor of anesthetic concentration	Νο	Yes