OXYGEN CONSERVATION CONSIDERATIONS

Pre-oxygenation

3 min at 5 L/min or 8 breaths in 60 sec at 10 L/min¹

<u>Intraoperatively</u>

Add appropriate PEEP to ventilator settings (defaults to zero on ventilator) Consider minimizing flow rates

Consider minimizing FiO₂ to minimum acceptable for your patient

• If have arterial line, can titrate to goal PaO_2 between 80 - 120 Emergence – consider air (not oxygen) as primary fresh gas flow

<u>Postoperatively</u>

Goal sats > 92% for most patients (> 88% for COPD patients) Nasal cannula – no minimum flow required (keep under 4 L/min for patient comfort) Face Mask – minimum flow of 5 – 6 L/min

Consider using lowest acceptable flow rate
Non-rebreather – minimum flow of 15 L/min

DON'T FORGET TO TURN O2 TANK OFF UPON ARRIVAL TO PACU/UNIT

CHECK AUXILLIARY OXYGEN ON ANESTHESIA MACHINE BEFORE/AFTER EVERY CASE

^{1.} Baraka AS et al. Preoxygenation: Comparison of maximal breathing and tidal volume breathing techniques. *Anesthesiology*, Vol. 91, 612. https://doi.org/10.1097/00000542-199909000-00009.