Supplemental Figure 1: Flow Diagram of Cohort Assignment

Does patient have hypoxic respiratory failure?
  a) Mean PEEP in last 30 min of case > 7  
  b) P/F ratio of last ABG in case < 300

Does patient have hypercarbic respiratory failure (failed spontaneous breathing trial in OR)?

Does patient have cardiovascular instability (need for vasopressor infusion)?

Does patient have uncorrected metabolic acidosis (BE < or + 6)?

Does patient have airway edema or other documented indication to remain intubated?

MED

YES

YES

YES

YES

YES

DPMV

\(^a\)Reversal of neuromuscular blockade but patient failed spontaneous breathing trial