

OPTIMIZE VOLUME STATUS	 IV fluid administration can precipitate rapid clinical deterioration in patients with elevated RV afterload Patients with RV failure due to chronically elevated pulmonary pressures often need diuresis on presentation Patients with acutely depressed RV contractility and normal RV afterload (ie: RCA OMI) can give fluid boluses with frequent reassessments
AVOID Hypotension	 Even transient hypotension can be problematic; low threshold to initiate early vasopressors and place A–line for close monitoring Vasopressin and epinephrine are optimal first line agents, norepinephrine is also reasonable Patients with significantly elevated pulmonary artery pressures may require higher MAP targets to optimize RV coronary perfusion pressures
DECREASE RV Afterload	 Correct hypoxemia (aggressive FiO2), hypercarbia (bronchodilators if COPD), and acidemia (correct hypoperfusion; bicarb usually not helpful) Initiation of an inhaled pulmonary vasodilator via HFNC: Nitric oxide 20ppm vs Epoprostenol 0.05mcg/kg/min (brand names: Flolan, Veletri) If no access to above, can use Venturi mask to deliver (off label) inhaled Milrinone 5mg (1mg/ml solution) vs Nitroglycerin 5mg (1mg/ml)
SUPPORT RV Contractility	 Consider additional inotropic support, particularly if failing to respond to diuretic challenge or Lactate/HCO3/Base Excess not improving Epinephrine reasonable first line, can also consider addition of milrinone versus dobutamine if systemic blood pressures have normalized
CAUTION WITH INTUBATION	 High risk of hemodynamic deterioration with intubation. If acute decompensation primarily due to RV failure should try to avoid intubation. If intubation required for management of patient with comorbid pulmonary HTN and/or RV failure, requires careful hemodynamic management: Place A-line, HFNC (+/- inhaled pulmonary vasodilator), Epinephrine (gtt +/- push dose), Ketamine induction, Ambu-bag between attempts