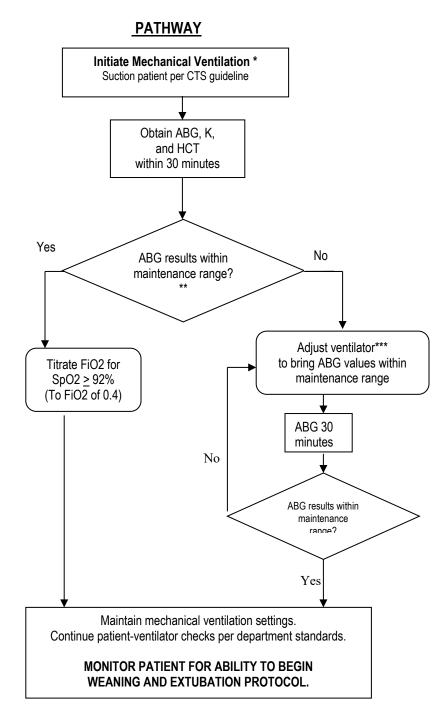
Supplemental Figure 1: Cardiothoracic ICU Ventilation Weaning Protocol

INITIATION AND MAINTENANCE



CLINICAL INFORMATION * INITIAL SETTINGS: (Alarms per department standard) Assist Control R.R. 15 (range 14 – 18) 6 -10mL/kg I.B.W. Vt PEEP 5 cmH2O (range 5 - 10cmH2O) (notify physician if you increase PEEP over 7) FiO2 1.0 (range 0.4 to 1.0 - keep SpO2 >92%) Pause none IBW (male) = 50+2.3(ht. inch-60) (female) = 45.5 + 2.3(ht. inch-60)(2.54 cm = 1 inch)** MAINTENANCE ABG RANGE: 7.36-7.48 pН 35 – 42mm Hg (Target 40) PaCO2 PaO2 >70mmHg or SpO2 <u>>92%</u> ***VENTILATOR REFERENCE: Hypoventilation: pH low, PaCO2 high Respiratory rate may be changed; range 14 - 18. Tidal Volume may be changed: a. Vt should remain inside 6-10 mL/kg IBW. The increased tidal volume should not result b. in plateau pressure above 30 cmH2O Hyperventilation: pH high, PaCO2 low Assess for extubation protocol. Respiratory rate may be decreased; range 8-14 Tidal volume may be decreased. (Vt= 6-10mL/kg IBW) Ve=present Ve X present PaCO2 desired PaCO2 Notify physician if the third set of ABG's fall outside the maintenance range. Notify physician about any and all concerns.

WEANING AND EXTUBATION

