

Figure 6.

APRV Algorithm

APRV Initial Settings

P-High 30 (or equivalent PIP-10 on HFPV)

P-Low 0

T-High 5 seconds

T-Low 0.6 seconds

FIO2 100%

Adjusting for Hypercapnia

[goal PaCO₂ < 60 pH >7.2]

1. Decrease sedation to allow spontaneous breathing
2. Increase P-High by 2
3. Increase T-Low by 0.05 seconds
4. Repeat 2 and 3 until P-High 40 T-Low 0.9 seconds
5. Decrease T-High to 4
6. CALL PHYSICIAN if still NOT at goal.

Titrate FiO₂ by 10-20% every 30 mins.

Goal FiO₂ is 21%.

CHECK ABG 30-60 mins after each change

Adjusting for Hypoxemia

[goal PaO₂ >70 SpO₂ > 92%]

1. Increase P-High by 2
2. If PCO₂ < 50, then decrease T-Low by 0.05
3. Repeat 1 and 2 until P-High 40, T-low 0.4
4. Increase P-High by 2 (Until P-High 50)
5. CALL PHYSICIAN if still NOT at goal.

Titrate FiO₂ by 10-20% every 30 mins.

Goal FiO₂ is 21%.

CHECK ABG 30-60 mins after each change

Adjusting for Hypocapnea

[goal PaCO₂ >30 pH <7.5]

1. If PaO₂ > 100, decrease P-High by 2
2. Decrease T-Low by 0.05
3. Repeat 1 and 2 until P-High 20 and T-Low 4 seconds
4. CALL PHYSICIAN if still NOT at goal

Titrate FiO₂ by 10-20% every 30 mins.

Goal FiO₂ is 21%.

CHECK ABG 30-60 mins after each change

Patients Who Fail to Meet
Oxygenation/Ventilation Goals
On APRV Obtain
MD Order for Ventilator Mode
of Preference

Figure 7.

WEANING APRV

