



INITIAL VENTILATOR & EXTUBATION GUIDELINE (22-24 WKS)

v.10-8-20

PLACE ON HFOV: Initial settings: Hz 14; ΔP 16; MAP 8

LAB WORK:

1. I-stat gas at time of UAC placement, 2h after, then q4h and PRN for first 24h
2. I-stat gases q6h and PRN for 25-48h
3. I-stat gases q8h and PRN for 49-72h

MEDICATIONS:

4. See Surfactant Delivery Guidelines.
5. Caffeine 25 mg/kg IV x 1 load upon admission, then 10 mg/kg IV q 24hrs.

IMAGING:

6. CXR at least q6h for first 24h to monitor expansion. If post-surfactant CXR is <1h after surf, repeat in 2h.
7. CXR at least q12h from 25 - 72h to monitor chest expansion
8. CXR at least daily from 72h – 5d to monitor chest expansion

BLOOD GAS CRITERIA FOR VENTILATOR MANAGEMENT:

Age		Immediate Evaluation *Notify Provider* Recheck gas 30-60” after intervention	Increase ΔP pCO ₂	Hold pCO ₂	Wean ΔP pCO ₂	Immediate Evaluation *Notify Provider* Aggressive Wean Recheck gas 30-60”
0-72h	ABG/CBG	pH <7.2 OR pCO ₂ >70	56-70	45-55	40-45	pH >7.45 OR pCO ₂ <40
3+days	ABG/CBG	pH <7.2 OR pCO ₂ >70	61-70	50-60	40-49	pH >7.45 OR pCO ₂ <40

- Notify Provider if FiO₂ >50% or rapidly increasing.
- Any value in “immediate evaluation” category takes precedence.
- Any gas rechecks due to “immediate evaluation” category are in addition to routinely scheduled gases.
- Wean as tolerated with goal to achieve extubatable settings within 5 days. Consider HUS just prior to extubation if >72h of age.

EXTUBATION CRITERIA:

9. **HFOV:** FiO₂ <0.4; MAP ≤8; Delta P ≤15; pCO₂ <60

Avea: FiO₂ <0.4; Rate 20; PEEP 5. PIP based on weight:

Weight	<750 gm	750-1000 gm	1001-1500 gm	>1500
PIP	13 cm H ₂ O	14 cm H ₂ O	15 cm H ₂ O	16 cm H ₂ O

10. Hold all sedation for at least 12h prior to extubation. Consider Narcan/Flumazenil rather than reintubation if oversedation occurs post extubation.
11. Call MD/NNP just prior to extubation.
12. Refer to NIV order set.
13. Follow Intubation & Extubation Criteria, post-extubation gas criteria (on NIPPV order set).
14. If extubation fails, consider conventional ventilation after reintubation.