WINDSURFER | HFNO WEANING & LIBERATION

RESEARCH STUDY GUIDELINE

GOAL

Liberate from HFNO maintaining SpO_2 >90% with minimal oxygen

WHEN TO WEAN

Patient meets BOTH

- RR ≤24 for 1 hour
- FiO_2 ≤0.40

CLINICAL PEARL

Decreases in flow are a nonlinear drop in oxygen delivered, so FiO2 might need to be increased as flow is weaned

STEP 1 WEAN FLOW

Reduce flow by **10 LPM** every 10 minutes

Flow = 20 LPM reached?

NO

YES

FiO_2 <0.50 reached?

YES - PROCEED TO 2a

NO - PROCEED TO 2b

DURING WEAN - ASSESS TOLERANCE

RR > 30?
YES

- Return to previous flow
- Reassess RR
- Resume wean once RR ≤24

SpO_2 <90%
YES

- Increase FiO_2 by 0.10 increments until SpO_2 >90%
- Continue flow wean

TRANSITION TO HUMIDIFIED CONVENTIONAL OXYGEN

STEP 2a

- Convert to 10 LPM humidified conventional oxygen
- Continue oxygen weaning as tolerated

STEP 2b

- Convert to 15 LPM humidified conventional oxygen
- Continue oxygen weaning as tolerated

MONITOR CONTINUOUSLY

- SpO_2 (goal >90%)
- Respiratory rate (goal ≤24/min)
- Patient comfort & work of breathing
- ABG / VBG (as indicated)

TROUBLESHOOTING

Flow wean not tolerated
Return to previous flow.
Reassess RR and resume wean once RR ≤24.

SpO_2 < 90%
Increase FiO_2.
Resume flow wean.

STEP 3 CONTINUE OXYGEN WEAN

Wean oxygen flow as tolerated to maintain SpO_2 > 90%. Transition to lowest effective flow or room air.