

Inline Suctioning

● SKILL SNAPSHOT

Purpose

- Removes retained secretions through a closed catheter while maintaining ventilation and PEEP.

When to use

- Visible/audible secretions, coarse sounds, sawtooth waveform, rising pressures, reduced tidal volume/SpO₂, or ineffective cough - not on a routine schedule.

Supplies needed

- Closed suction catheter; PPE; oxygen/ventilator; pulse oximeter; stethoscope; sterile specimen trap if ordered.

● PREP + PATIENT SETUP

- Verify need and catheter size; explain procedure.
- Assess breath sounds, SpO₂, HR/rhythm, ventilator values, and secretion burden.
- Position head up if allowed; confirm catheter and

● VAULT TIP

- A ventilator sawtooth pattern plus coarse sounds is a stronger cue than the clock: suction only when assessment shows need.

● STEP-BY-STEP

1. Hand hygiene; identify patient; apply PPE.
2. Confirm suction regulator is connected and set per age, device, policy, and order.
3. Preoxygenate adult/pediatric patients using the ventilator function or prescribed method; avoid disconnecting the circuit.
4. Unlock/open the closed-suction control valve. Stabilize the artificial airway.
5. Advance catheter without suction to the measured/shallow depth or until resistance, then withdraw about 1 cm if resistance is met.
6. Apply suction only while withdrawing with a smooth rotating motion; keep each pass as brief as possible, generally no longer than 15 seconds.
7. Allow recovery and reoxygenation between passes. Reassess SpO₂, HR/rhythm, BP, color, and ventilator tolerance.
8. Repeat only if secretions remain and the patient tolerates it; limit passes according to policy.
9. Do not routinely instill normal saline. Use only for a specific indication/order or protocol.
10. After the final pass, withdraw catheter completely into its sleeve.
11. Using the system flush port, rinse the catheter while suctioning per manufacturer instructions; keep flush fluid out of the airway.
12. Close/lock the valve. Return oxygen to the prescribed level.
13. Reassess breath sounds, SpO₂, airway pressures, tidal volumes, and secretion clearance.

● SAFETY REMINDERS

- Stop for severe desaturation, bradycardia/arrhythmia, distress, bleeding, or marked hemodynamic change.
- Preoxygenate; suction only when indicated.
- Catheter should not occlude more than half the ETT lumen in adults/children.
- Maintain airway security and closed circuit.

● COMMON MISTAKES

- Applying suction while advancing.
- Deep suctioning when shallow suction is effective.
- Routine saline instillation.
- Repeated passes without recovery or reassessment.

● DOCUMENTATION

- Indication and pre/post assessment.
- Oxygenation and ventilator response.
- Number and tolerance of passes.
- Secretion amount, color, consistency, odor.
- Specimen collected; adverse events/interventions.