

Society for Pediatric Sedation Visual Series

Management of Apnea in Procedural Sedation



How do we define apnea?

The cessation of breathing for more than 15 seconds OR cessation of breathing for any duration if associated with bradycardia (HR < 60 BPM) and/or desaturations (SPO₂ < 90%).

Risk factors (before, during, and after sedation):

Prematurity

- Anemia
- Bronchopulmonary Dysplasia / Chronic Lung Disease
- History of Respiratory Distress or Previous Apnea
- CNS Maturity or Immaturity

Genetic Syndromes / Craniofacial Anomalies with sleep-disordered breathing (obstruction, central, or mixed apnea)

Medications

- Sedative Hypnotics (IV or inhaled)
- Opioids
- >1 agent
- Use of opioids in patients with sleep-disordered breathing

Metabolic

- Hypoglycemia
- Hypocalcemia
- Hypothermia

Hypoxia, Acidosis, and Hypercarbia

Airway Obstruction

APNEA

Incidence of Apnea in Premature Infants

0.8% (Term)
vs. 2% (Preterm)



Preterm infants < 30 weeks PMA
- 0% incidence in the first 48 hours after anesthesia

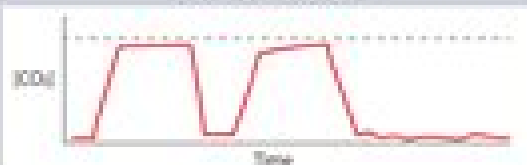
Preterm infants < 30 weeks PMA
- 10% incidence

Preterm infants < 34 weeks PMA
- 25% incidence

PMA = Postmenstrual age (Gestational age + Chronological age)

Diagnosis

End tidal CO₂ provides earlier detection, SPO₂ delayed.



Prevention



- Prescreening prior to sedation. Refer high risk patients to the anesthesiologist.



- Avoid multiple sedative/analgesic agents.
- Avoid multiple doses of agents with long half-lives.
- Propofol bolus should be given slowly and titrated to effect.



- Emergency drug box (Naloxone, Flumazenil, succinylcholine and glycopyrrolate) should be kept ready prior to sedation.



- Premature infants (<30 weeks PCA) may need close observation for 12 hours.

Management



Call for Help

- Bag mask ventilation
- Reposition airway / Perform jaw thrust
- Insert oral airway/NP tube
- Consider reversal agents (opioids or benzodiazepines)
- LMA / Tracheal intubation

Pharmacologic Tips

- Stop sedation/infusion
- Use sedation/analgesia reversal agents from emergency drug box. Naloxone for opioids and Flumazenil for benzodiazepines.
- Discuss with primary care provider about the role of caffeine, especially in premature infants.

Conscious Sedation Guidelines

VM Jensen

A decorative red curved shape, resembling a stylized 'C' or a partial circle, is positioned to the right of the light blue bar.

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