PR18: Sedation Facilitated Intubation BCEHS Realth Services Autory Realth Services



Procedure

- 1. Mandatory EPOS consultation prior to SFI decision.
- 2. Complete the pre-intubation checklist.
- 3. Perform induction:

Resources

Pre-Intubation Checklist

Post-Intubation Checklist

Pediatric Vital Signs

INDUCTION PROCEDURE



ADULTS

Stable Hemodynamics

Ketamine: 1-2 mg/kg IV/IO.

Shock Index Greater Than 1

Ketamine: 1-2 mg/kg IV/IO.

Shock Index Less Than 1

- Normal saline: 500 mL IV/IO bolus. then PRN to maintain MAP greater than 65.
- PHENYLephrine: 100 mcg IV/IO q 2-5 min to maintain MAP greater than 65.
- Ketamine: 0.5-1 mg/kg IV/IO (may repeat at 2-5 min to max total 2 mg/kg).

Unstable Hemodynamics

• Normal saline: 10 mL/kg bolus, then PRN to maintain MAP greater than low threshold for age*.

PEDIATRIC

- Epinephrine: 1 mcg/kg IV/IO, then PRN q 2-5 min to maintain MAP greater than low threshold for age*.
- Ketamine: 0.25-1 mg/kg IV/IO (may repeat at 2-5 min to max total of 2 mg/kg).

+ Adjunctive Options:

If sedation is inadequate with ketamine alone:

 Midazolam: 2 mg IV/IO q 2-5 min PRN (max total 15 mg).

+ Adjunctive Options:

If sedation is inadequate with ketamine alone:

 Midazolam: 0.05 mg/kg (max 2 mg) IV/IO PRN q 2-5 min (max total 15 mg).

- 4. Perform intubation and complete post-intubation checklist.
- 5. Implement maintenance of anesthesia.

MAINTENANCE OF ANESTHESIA



ADULTS

- Ketamine infusion: 2 mg/kg/hr IV/IO
- Epinephrine infusion: 1-20 mcg/min IV/IO to maintain MAP greater than 65.

or 0.5-1 mg/kg IV/IO direct q 15-30 min.

+ Consider adjunctive options above.

PEDIATRIC

- Ketamine infusion: 5-20 mcg/kg/min IV/IO or 0.5-1 mg/kg IV/IO direct q 15-30 min.
- Epinephrine infusion: 0.01-1 mcg/kg/min IV/IO to maintain MAP greater than low threshold age*.
- + Consider adjunctive options above.

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Indications

- Oxygenation and ventilation when unable to achieve with maximal supraglottic airway management.
- Protection of airway patency when not adequately managed with suction and severely soiled by fluid.
- Rapid progression of airway compromise from inflammation due to burns or angioedema with prolonged transport time.

XContraindications

 Medical Orders for Scope of Treatment (MOST) declining invasive airway interventions

? Complications

- Hypoxia
- Hupotension
- Malposition (esophagus/mainstem)
- Aspiration
- Laryngospasm
- Vagal stimulation
- · Oropharyngeal trauma

Precautions

- Predicted difficult intubation
- Shock physiology not favorable for induction

Notes

*EPOS Consultation

Emergent intubation may occur under extraordinary clinical or logistical situations without EPOS consultation.

If all EPOS resources are unavailable, SFI decision-making will be supported by PS utilizing Pre-Intubation Checklist for consistency.

Intubations performed without consultation will be collaboratively reviewed for quality improvement and critical incident support.

Shock Index (SI) Formula

Heart Rate (HR) Shock Index =

Systolic Blood Pressure (SBP)

Shock physiology correlates with a SI greater than 1.

Goals of Anesthesia

Amnesia - Critical to long-term psychological wellbeing. Achieved primarily with ketamine and midazolam.

Analgesia - Improves comfort and reduces overall sedation. Achieved with ketamine and fentanyl.

Autonomic Stability - Mitigates mechanical and medicinal effects. Achieved with PHENYLephrine, epinephrine, and fluid.

Areflexia - Suppresses airway tone and reflexes. Not within ACP scope of practice.

*Pediatric Shock Physiology

- *Severity of pediatric shock may be determined through consideration of:
 - Blood pressure
 - Heart rate
 - Capillary refill time
 - · Alterations in mental status

Similar to adults, blood pressure alone is not sufficient for the diagnosis of shock.

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