Emergency Department Procedural Sedation and Analgesia Physician Checklist

[patient label]

Pre-Procedure Assessment			
Past medical history (note history of OSA) Prior problems with sedation/anesthesia Allergies to food or medications Procedure Dentures none / upper / lower [should remain in duity of the cardiorespiratory reserve no or mild impairment / moderate Difficult airway features none / mild concern / significant Last oral intake (see fasting grid on reverse) Weight (kg)	ring PSA unless intubation required] impairment / significant impairment t concern		
Difficult Airway Features			
Difficult BVM Ventilation: Difficult LMA: Difficult Cricothyroidotomy: Beard, Obese, No teeth, Elderly Restricted mouth opening, Obst Surgery, Hematoma, Obesity, Restricted mouth opening, Obst Surgery, Hematoma, Obst Surgery,	ruction, Distorted airway, Stiff lungs or c-spine adiation distortion or other deformity, Tumor* dural sedation and analgesia? tures, and the less procedural urgency, the more likely the patient candidate for ED-based PSA, other options include regional or local		
Pre-procedure Preparation	Airway Equipment		
Analgesia - maximal patient comfort prior to PSA Informed consent for PSA and procedure Patient on monitor: telemetry, NIBP, SpO2, EtCO2 Oxygenate with NC O2 and high flow face mask O2 Select and draw up PSA agent(s) Reversal agents and paralytic vials at bedside Prepare for endotracheal intubation	Ambu bag connected to oxygen Laryngoscopy handles and blades Suction, oral & nasal airways Endotracheal tubes & stylets LMA with lubricant and syringe Colorimetric capnometer Bougie & difficult airway equipment		
Agent Dose* Contraindications	Comments		
Propofol 0.5-1 mg/kg IV, then 0.5 mg/ Egg or soy allergy kg q1-2 min prn	Preferred for shorter procedures and where muscle relaxation is of benefit; avoid if hypotension is a		

Agent	Dose*	Contraindications	Comments	
Propofol	0.5-1 mg/kg IV, then 0.5 mg/ kg q1-2 min prn	Egg or soy allergy	Preferred for shorter procedures and where muscle relaxation is of benefit; avoid if hypotension is a concern	
Ketamine	1-2 mg/kg IV over 30-60 sec or 4-5 mg/kg IM, repeat half dose prn	Absolute: age < 3 months, schizophrenia Relative: major posterior oropharynx procedures; history of airway instability, tracheal surgery, or tracheal stenosis; active pulmonary infection or disease; cardiovascular disease; CNS masses, abnormalities, or hydrocephalus	Preferred for longer procedures; avoid if hypertension/ tachycardia is a concern; have midazolam available to manage emergence distress; muscle tone is preserved or increased; post-procedure emesis may be mitigated by prophylactic ondansetron	
Etomidate	0.1-0.15 mg/kg IV, then 0.05 mg/kg q2-3 min pm		Intra-procedure myoclonus or hypertonicity, as well as post-procedure emesis, are common	
Fentanyl	1-2 mcg/kg IV, then 1 mcg/ kg q3-5 min pm		Comparatively delayed onset of action; do not re-dose too quickly	
Midazolam	.05 mg/kg IV, then .05 mg/kg q3-5 min prn	Pregnancy, allergy to benzyl alcohol	Comparatively delayed onset of action; do not re-dose too quickly	
Pentobarbital	1 mg/kg IV, then 1 mg/kg q3-5 min pm	Pregnancy, porphyria	Use for painless procedures where analgesia is not needed	
Reversal Agent	Dose		Caution	
Naloxone	0.01-0.1 mg/kg IV or IM (typic	cal adult dose 0.4 mg), max 2 mg		
Flumazenil	0.01 mg/kg IV (typical adult d	ose 0.2 mg) over 20 seconds, max 1 mg	Only use in benzodiazepine naïve patient	

^{*}All doses should be reduced in the elderly and in patients with marginal hemodynamics

[patient label] Consider reversal agents



Detect hypoventilation early Stop the drugs

Position the patient

Jaw thrust

Suction if needed

Laryngospasm notch pressure

Nasal airways

Bag mask or LMA ventilation Oral airway, ventilation

Intubate

PSA Intervention Sequence

- · Proceed down intervention sequence as slowly as patient condition permits
- · Jaw thrust as illustrated above thumbs on maxilla, four fingers posterior to ramus
- · Laryngospasm notch is behind the earlobe, between mastoid process and condyle of mandible - bilateral, firm pressure medially and cephalad (up and in)
- · If rescue ventilation is required, bag slowly and gently
- · see emupdates.com/psa for details

Post-procedure	Assessment	
Adverse events	none / hypoxia (< 90%) / aspiration / hypotension / agitation / other:	_
☐ Interventions taken	none / bag valve mask / LMA / ETT / reversal agent / hypotension Rx / admission for PSA / other:	
Adequacy of PSA	nondistressed / mild distress / severe distress	
☐ Procedure	successful / unsuccessful	
☐ MD or RN at bedside	until patient responds to voice	
☐ Telemetry, EtCO₂, Sp	O ₂ monitoring until patient responding to questions appropriately	
If reversal agent use	d, observation two hours after answering questions appropriately	
Mental status and an	nbulation at baseline at time of discharge/disposition	

tandard risk patient"					Higher-risk patient**	-			
Oral intake in the prior 3 hours	Emergent Procedure	Urgent Procedure	Semi-urgent procedure	Non-urgent procedure	Oral intake in the prior 3 hours	Emergent Procedure	Urgent Procedure	Semi-urgent procedure	Non-urgent procedure
Nothing	All levels of sedation	All levels of sedation	All levels of sedation	All levels of sedation	Nothing	All levels of sedation	All levels of sedation	All levels of sedation	All levels of sedation
Clear liquids only	All levels of sedation	All levels of sedation	Up to and including brief deep sedation	Up to and including extended moderate	Clear liquids only	All levels of sedation	Up to and including brief deep sedation	Up to and including extended moderate sedation	Minimal sedation only
Light snack	All levels of sedation	Up to and including brief deep sedation	Up to and including dissociative sedation; non-extended moderate	Minimal sedation only	Light snack	All levels of sedation	Up to and including dissociative sedation; non- extended moderate sedation	Minimal sedation only	Minimal sedation only
Heavier snack or meal	All levels of sedation	Up to and including extended moderate sedation	sedation Minimal sedation only	Minimal sedation only	Heavier snack or meal	All levels of sedation	Up to and including dissociative sedation; non- extended moderate sedation	Minimal sedation only	Minimal sedation only

Additional Comments			
MD Name	Sign	Date/Time	