## **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 during PS	SA unless intubation required]	
Cardiorespiratory reserve no or mild impairment / moderate impair	ment / significant impairment	
☐ Difficult airway features none / mild concern / significant conce	ern	
Last oral intake (see fasting grid on reverse)	Will delay procedure until	
Weight (kg)	☐ Benefits of proceeding with PSA exceed risks	
Difficult Airway Features		
· ·	Mallagarati assas Obstantila Nada Mahiliba	
Difficult Laryngoscopy: Look externally, Evaluate 3-3-2 rule, Difficult BVM Ventilation: Beard, Obese, No teeth, Elderly, Slee	Mallampati score, Obstruction, Neck Mobility	
	on, <b>D</b> istorted airway, <b>S</b> tiff lungs or c-spine	
Difficult Cricothyroidotomy: Surgery, Hematoma, Obesity, Radiati		
	Oceanian and analysis	
☐ Is this patient a good candidate for ED procedura	_	
The less cardiorespiratory reserve, the more difficult airway features, should not receive PSA in the emergency department. If not a good candi		
anesthetic; PSA or GA in the operating room; or endotracheal intubation in		
Pre-procedure Preparation	Airway Equipment	
Analgesia - maximal patient comfort prior to PSA	Ambu bag connected to <b>oxygen</b>	
☐ Informed consent for PSA and procedure	Laryngoscopy handles and blades	
Patient on monitor: telemetry, NIBP, SpO2, EtCO2	Suction, oral & nasal airways	
Oxygenate with NC O2 <b>and</b> high flow face mask O2	☐ Endotracheal tubes & stylets	
Select and draw up PSA agent(s)	LMA with lubricant and syringe	
Reversal agents and paralytic vials at bedside	Colorimetric capnometer	
☐ Prepare for endotracheal intubation ☐ Bougie & difficult airway equipment		
Agent Dose* Contraindications Propofol 0.5-1 mg/kg IV, then 0.5 mg/ Egg or soy allergy	Comments  Preferred for shorter procedures and where muscle	
kg q1-2 min prn	relaxation is of benefit; avoid if hypotension is a concern	

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 prn		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 prn		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 prn	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 (typical adult dose 0.4 mg), max 2 mg			
Flumazenil	0.01 mg/kg IV (typical adult de	ose 0.2 mg) over 20 seconds, max 1 mg	Only use in benzodiazepine naïve patient	

[patient label]



Detect hypoventilation early

Stop the drugs

Position the patient

Jaw thrust

Suction if needed

Laryngospasm notch pressure

Nasal airways

Consider reversal agents

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	and thursels ( 2000) to animation thursels are to eliterate and a site of the sur		
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		
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	until patient responds to voice		
☐ Telemetry, EtCO₂, Spo	O <sub>2</sub> monitoring until patient responding to questions appropriately		
☐ If reversal agent used	l, observation two hours after answering questions appropriately		
☐ Mental status and am	bulation at baseline at time of discharge/disposition		

## **Fasting Grid**

Standard risk patient\*\*

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
Clear liquids only	All levels of sedation	All levels of sedation	Up to and including brief deep sedation	Up to and including extended moderate sedation
Light snack	All levels of sedation	Up to and including brief deep sedation	Up to and including dissociative sedation; non- extended moderate sedation	Minimal sedation only
Heavier snack or meal	All levels of sedation	Up to and including extended moderate sedation	Minimal sedation only	Minimal sedation only

Higher-risk patient\*

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
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 dissociative sedation; non- extended moderate 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

Minimal sedation only

Dissociative sedation; brief or intermediate-length moderate sedation

→ Extended moderate → Brief deep →

sedation

Intermediate or extended-length deep sedation

Brief: < 10 min Intermediate: 10-20 min Extended: > 20 min

Date/Time MD Name Sign