MODERATE SEDATION



Policy Name:

Moderate Sedation/Analgesia for Non-Anesthesia

Providers

Department/Service

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SCOPE

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This policy applies to BUMC physicians and Registered Nurses who are caring for inpatients or outpatients that require medications for sedation/analgesia, prior to undergoing therapeutic or diagnostic procedures. Sedation/analgesia lies on a dose and response dependent continuum leading from minimal sedation to general anesthesia (see Table 1). This policy is specifically intended for patients who are over 12 y/o and 80 lbs. or greater. Patients not meeting both requirements need

sedation/analgesia administered by an anesthesia provider or credentialed Emergency physician as governed by the standards of care established by the Department of Anesthesiology.

This sedation policy does not apply to the following cases:

- A. Patients who have an anesthesia provider administering the sedation.
- B. Patients in critical care units receiving sedation and / or analgesia not related to a procedure
- C. Patients who are mechanically ventilated and whose cardiovascular/ respiratory status is continuously monitored by the same monitoring devices as specified by this policy.
- D. Patients in neonatal intensive care unit (NICU) in which there is a specific NICU sedation policy approved by the Director of Anesthesia.
- E. Patients in which the administration of deep sedation is ordered.

Table 1 - Definition of General Anesthesia and Levels of Sedation/Analgesia

"Sedation and analgesia" comprise a continuum of states ranging from minimal sedation (anxiolysis) through

general anesthesia.

general anesthesia.	Minimal Sedation (Anxiolysis)	Sedation/ Analgesia	Deep Sedation/ Analgesia	General Anesthesia
Responsiveness Normal response to verbal stimulation		Purposeful response* to verbal or tactile stimulation	Purposeful response* after repeated or painful stimulation	Unarousable, even with painful stimulus
Airway	Unaffected	No intervention required	Intervention may be required	Intervention often required
Spontaneous ventilation	Inarrected		May be inadequate	Frequently inadequate
Cardiovascular function	Unaffected	Usually maintained	Usually maintained	May be impaired

^{*} Reflex withdrawal from a painful stimulus is not considered a purposeful response.

Developed by the American Society of Anesthesiologists; approved by the ASA House of Delegates October 13, 1999

PURPOSE

- A. To enact a uniform standard of care at Baylor University Medical Center (BUMC) facilities for patients receiving medications administered by non-anesthesia providers for moderate sedation/analgesia during diagnostic or therapeutic procedures.
- B. To provide guidelines for credentialed physicians and qualified RN's employing moderate sedation/analgesia to afford their patients comfort during diagnostic or therapeutic interventional procedures while minimizing the associated risks and focusing on patient safety.

POLICY

- A. Specific medications may be administered to patients during diagnostic or therapeutic procedures that produce sufficient sedation/analgesia to require special monitoring and clinical expertise to recognize and rescue patients that become over sedated in order to minimize the associated risks.
- B. A physician credentialed in moderate sedation/analgesia determines that the patient is an appropriate candidate for sedation/analgesia.
- C. Informed consent for moderate sedation will be obtained by the physician prior to the procedure in accordance with the Informed Consent Policy.

- D. Medications administered for sedation/analgesia will be administered after the patient arrives in the location in which the procedure will be performed and will not be initiated on the nursing unit prior to transport of the patient to another location.
- E. The same moderate sedation/analgesia procedures will be followed regardless of the technique and route of medication administration (e.g., oral, nasal, parenteral, rectal).
- F. Emergency equipment will be present at the bedside during sedation until the patient has regained their pre-sedation status.
- G. Personnel necessary for provision of sedation/analgesia are:
 - 1. A designated individual, other than the practitioner performing the diagnostic or therapeutic procedure, to monitor the patient throughout the period of sedation. This individual may assist with minor, interruptible tasks once the patient's level of sedation and vital signs have stabilized, provided that adequate monitoring for the patient's level of sedation is maintained.
 - 2. An individual physically present and capable of establishing a patent airway and providing positive pressure ventilation with a means of summoning additional assistance.
 - 3. An individual with current Advanced Cardiac Life Support (ACLS), or Advanced Trauma Life Support (ATLS), immediately available within 5 minutes, such as a code team.
- H. Intravenous access will be maintained throughout sedation/analgesia and during the recovery phase until the patient is no longer at risk for cardio-respiratory depression.
- I. Supplemental oxygen will be present and considered during sedation/analgesia unless specifically contraindicated for a particular patient or procedure.
- J. Transfer of Care/Condition: If a physician transfers sedation/anesthesia care to an anesthesiologist or CRNA, then the responsibility for further documentation and monitoring becomes the responsibility of the anesthesia provider.
- K. Sedation regimens that require the routine use of reversal agents are discouraged.
- L. An anesthesia provider will be consulted when in the judgment of the practitioner it would optimize care of the patient.
- M. Each patient's pre-sedation assessment is documented by the physician indicating that the patient is an appropriate candidate for sedation/analgesia. The physician prescribing the sedation/ analgesia documents immediately prior to sedation the following:
 - 1. Age
 - 2. Abnormalities of the major organ systems
 - 3. History of sleep apnea or Gastro-esophageal Reflux Disease (GERD)

- 4. Personal and family history of previous adverse experiences with sedation/analgesia as well as regional and general anesthesia.
- 5. Drug allergies, current medications, herbal supplements
- 6. Time and nature of most recent oral intake
- 7. History of tobacco, alcohol, substance use, and abuse
- 8. Pregnancy
- 9. Pertinent laboratory, radiological, and functional studies
- 10. Mental status, level of consciousness,
- 11. Examination of heart and lungs,
- 12. American Society of Anesthesiologist (ASA) Class, sedation/anesthesia risks (Table 2).
- 13. Airway assessment, (Table 3)
- 14. Risks and benefits and anesthesia plan.
- 15. Alternatives will be discussed with patient prior to procedure.

Table 2 – American Society of Anesthesiologists Physical Status Classification

Class	I	Normal healthy patient
Class	11	Mıld systemic dısease
Class	III	Severe systemic disease
Class	IV	Severe systemic disease/constant threat to life
Class	V	Not expected to survive without operation

Table 3 - Airway Assessment Procedures for Sedation and Analgesia

Positive pressure ventilation, with or without tracheal incubation, may be necessary if respiratory compromise develops during sedation-analgesia. This may be more difficult in patients with atypical airway anatomy. In addition, some airway abnormalities may increase the likelihood of airway obstruction during spontaneous ventilation. Some factors that may be associated with difficulty in airway management are:

History	Previous problems with anesthesia or sedation Stridor, snoring, or sleep apnea Advanced rheumatoid arthritis Chromosomal abnormality (e.g., trisomy 21)	
	distribution and additional and a second and	
Physical Exam	ınatıon	
Habitus	Significant obesity (especially involving the neck and facial structures)	
Head & Neck	Short neck, limited neck extension, cervical spine disease or trauma, neck mass, decreased hyoid-mental distance (< 3cm in an adult), Tracheal deviation, dysmorphic facial features (e.g., Pierre-Robin syndrome)	***************************************
Mouth	Small opening (< 3 cm in an adult), edentulous, protruding incisors, Loose or capped teeth, dental appliances, high arched palate, macroglossia, tonsilar hypertrophy, nonvisible uvula	
Jaw	Micrognathia, retrognathia, trismus, significant malocclusion	

- N. Patients will be fully monitored for at least two hours after administration of an opioid or benzodiazepine reversal agent unless the credentialed physician writes an order to reduce this period of monitoring.
- O. The duration and frequency of monitoring during the recovery phase will be individualized depending on the level of sedation achieved; the overall condition of the patient and the nature of the intervention for which the sedation/analgesia was administered.
- P. Each area providing moderate sedation will conduct a random sample (minimum 15/month) of audits using the MIDAS (Moderate Sedation 2008 forward) module. In addition to the random sample, an audit will be completed on every patient who experiences an adverse outcome (an RRT or Code Blue, any patient requiring a reversal agent or an admission or transfer to a higher level of care).

- Health Care Improvement will monitor the data base and report all adverse outcomes including the use of reversal agents to the appropriate Peer Review Committee or Nurse Manager whichever is most appropriate. An aggregate report will be sent to the Chief of the Anesthesia Department with a narrative of issues addressed during the reporting period.
- Q. A Midas risk event will be completed in the event of an adverse drug reaction.

RESPONSIBILITIES

Director of Anesthesiology:

Development of standards of practice and guidelines for sedation/analgesia in collaboration with other departments that provide the service.

<u>Medical Director of Department where procedure is planned:</u>

- A. Ensures that physicians and Registered Nurses performing sedation/ analgesia have appropriate credentials.
- B. Ensures that quality improvement data is reviewed and appropriate actions taken.

<u>Credentialed Physician</u> (**MD/DO**):

- A. Completion of a pre-sedation evaluation and assessment prior to preceding with sedation/analgesia to determine that the patient is an appropriate candidate for sedation/analgesia.
- B. Consults the appropriate medical specialist before sedation/analgesia is initiated in patients with significant underlying conditions in the setting of a planned procedure. For emergency diagnostic and therapeutic procedures, the clinical judgment of the provider must weigh the risk and benefits of going ahead with procedural sedation.
- C. Completes physician portion of Sedation Record or similar form.
- D. Prescribes medications and is physically present during the procedure.
- E. Ensures patient has completed the recommended minimum fasting period prior to initiating the sedation.
- F. Initiation of "TIME OUT" prior to the administration of sedation.
- G. Medical supervision of recovery and discharge after sedation.
- H. Rescue of the patient when indicated.
- I. Ensure that the patient is provided with written post-sedation instructions and warnings.

Qualified Registered Nurse (RN):

- A. Validation of physician credentials in moderate sedation through on-line privilege viewer.
- B. Assuring emergency equipment is present at the bedside.

- C. Proper identification of the patient using two forms of identification
- D. Verification of informed consent
- E. Review of the physician's documentation concerning patient pre-sedation status
- F. Monitoring of the patient during sedation until the patient's pre-sedation status has returned.
- G. Documentation of patient monitoring parameters on Sedation Record or similar form.
- H. Assisting with rescue of the patient when necessary according to established Basic Life Support (BLS) procedures and in keeping with the scope of practice for Registered Nurses.

DEFINITIONS

When used in this Policy these terms have the following meaning:

- A. Moderate sedation/analgesia: A drug induced depression of consciousness during which patients respond purposefully to verbal commands, either alone or accompanied by light tactile stimulation. No interventions are required to maintain a patent airway and/or adequate spontaneous ventilation. Cardiovascular function is usually maintained.
 - 1. Medications that can be used for sedation are: lorazepam (Ativan); diazepam (Valium); morphine sulfate; fentanyl; diphenhydramine (Benadryl); midazolam (Versed) (Table 4).
 - 2. The use of minimal sedation such as topical, local, and oral analgesic agents can be given in accordance with the scope of practice of each licensed health care provider.

Table 4 – Guidelines for Use of Moderate Sedation Agents

	OPIOID NARCOTICS	
Morphine Sulfate	Fentanyl	Meperidine (Demerol)
Classification: Opiate Agonist	Classification: Opiate Agonist	Classification: Opiate Agonist
Indications: Management of moderate to severe pain, sedation	Indications: Pain relief, sedation	Indications: Management of moderate to severe pain
Side Effects: Respiratory depression, nausea, vomiting, bradycardia, hypotension, peripheral vasodilatation, histamine release, pruritis, increased ICP	Side Effects: Respiratory depression, nausea, vomiting, bradycardia, hypotension, skeletal and thoracic muscle rigidity especially following rapid IV administration.	Side Effects: Respiratory depression, nausea, vomiting, bradycardia, hypotension, peripheral vasodilatation, histamine release, pruritis, increased ICP
Contraindications: Increased	Contraindications: Increased ICP,	Contraindications: Increased
ICP, severe respiratory depression, and hypersensitivity to opiates.	severe respiratory depression, and hypersensitivity to opiates.	ICP, severe respiratory depression, patients receiving MAO inhibitors, use with caution in patients with seizure disorders, patients with tachyarrythmias, patients \$\geq 65\$ years, and hypersensitivity to opiates.
Peak Effect: IV: 20 minutes Oral: 60 minutes Suppository: 20-60 minutes Subcutaneous: 50-90 minutes IM: 30-60 minutes	Peak Effect: IV: 3-15 minutes IM: 15 minutes Oral: 20-30 minutes	Peak Effect: IV. 5-20 minutes IM: 30-50 minutes Oral: 60 minutes
<u>Duration:</u> 3-5 hours	Duration: 30 minutes-1 hour; respiratory depression may last longer than analgesia	Duration: IV, SC, IM: 2-4 hours
Dose, Infants & Children: IV: 0.05-0.1 mg/kg/dose up to 2 mg	Dose, Infants & Children: IV: 1-2 mcg/kg	<u>Dose</u> , Children: <u>IV</u> : 0.05-1.5 mg/kg/dose
Oral: 0.3-0.6 mg/kg Dose, Adults: IV: Initial dose 1-5 mg. (maximum recommended initial dose of 10mg) May repeat in 1-2 mg increments to a maximum recommended total dose of 20 mg Concomitant sedatives, debilitated or patients ≥65 years: Initial dose IV: 1 mg	Dose, Adults: IV: 0.5-1 mcg/kg/dose (50-100 mcgs) Concomitant sedatives, debilitated or patients ≥65 years: Initial dose IV: 12.5-25 mcg/dose	Dose, Adults: IV: 25-50 mg/dose Concomitant sedatives, debilitated or patients ≥65 years: Initial dose IV: 12.5 mg/dose
Drug interactions: Phenothiazines may antagonize the analgesic effect of opiates. CNS depressants, MAO inhibitors, tricyclic antidepressants may potentiate morphine's adverse effects. Reduce doses in patients ≥65 years, hypovolemic, or high risk patients and with concomitant use of sedatives and other narcotics.	Drug interactions: CNS depressants, MAO inhibitors, tricyclic antidepressants may potentiate fentanyl's adverse effects. Reduce doses in patients ≥65 years, hypovolemic, or high risk patients and with concomitant use of sedatives and other narcotics.	Drug interactions: MAO inhibitors greatly potentiate the effects of meperidine. CNS depressants, tricyclic antidepressants, phenothiazines may potentiate the effects of meperidine. Reduce doses in patients ≥65 years, hypovolemic, or high risk patients and with concomitant use of sedatives and other narcotics.
Antagonist: Narcan Considerations: Administer IV drug over a minimum of 5 minutes	Antagonist: Narcan Considerations: Administer IV drug over 3-5 minutes Apnea may precede sedation	Antagonist: Narcan Considerations: Administer IV drug over a minimum of 5 minutes

Table 4 - Guidelines for Use of Moderate Sedation Agents

(continued)

(continued)		
SEDATIVES		
Midazolam (Versed)	Diazepam (Valium)	
Classification: Benzodiazepine	<u>Classification</u> : Benzodiazepine	
Indications: Sedation, amnesia	<u>Indications</u> : Sedation, amnesia	
Side Effects: Bradycardia, hypotension,	Side Effects: Bradycardia, hypotension, respiratory	
respiratory depression, apnea, cardiac arrest,	depression, apnea, cardiac arrest, laryngospasm, phlebitis,	
laryngospasm.	pain with injection	
Contraindications: CNS depression, respiratory	Contraindications: CNS depression, respiratory depression, severe uncontrolled pain, severe hypotension	
depression, severe uncontrolled pain, severe hypotension	depression, severe uncontrolled pain, severe hypotension	
Peak Effect:	Peak Effect:	
IV: 5-7 minutes	IV 5-15 minutes	
IM 15-30 minutes	Oral: 45 minutes-1 hour	
Oral: 30 minutes		
<u>Duration</u> : 1-2 hours	Duration: 2-6 hours	
<u>Dose</u> , Children:	<u>Dose</u> , Children:	
<u>IV</u> : 0.05 mg/kg/dose	IV. Initial dose 0.05 mg/kg/dose (maximum recommended	
Maximum recommended initial dose: 2 mg	initial dose of 5 mg)	
May repeat after peak effect to recommended total	May repeat after peak effect with incremental doses of 0.05 mg/kg (maximum recommended incremental dose of	
dose of 5 mg Oral: 0 5-0.75 mg/kg	1 mg) to a maximum recommended total dose of 10 mg	
Maximum recommended oral dosages:	Oral: 0.2-0.3 mg/kg	
6 months to 5 years: 6 mg and ≥6 years: 10 mg	Maximum recommended dose: 10 mg	
Dose, Adults:	Dose, Adults:	
IV: 0.5-2 mg slow push over at least 2 minutes	IV: Initial dose 5 mg. May repeat after peak effect with	
May repeat dose after peak effect as needed to a	2.5 mg doses as needed to a maximum recommended total	
maximum recommended total dose of 2.5-5 mg	dose of 10 mg	
	<u>Oral</u> : 10 mg	
1	Concomitant opioids, debilitated or patients	
	≥ 65 years: IV, PO: 2.5 mg/dose	
Drug Interactions:	Drug Interactions:	
Reduce doses in patients ≥65 years, hypovolemic,	Opioids (narcotics) or other CNS depressants may enhance	
or high risk patients and with concomitant use of	sedation and respiratory depression.	
sedatives and other narcotics.		
If opioids (narcotics) or other CNS	Reduce doses in patients ≥65 years, hypovolemic, or high	
depressants are administered concomitantly,	risk patients and with concomitant use of sedatives and	
the midazolam dose should be reduced by	other narcotics. Caution should be exercised if diazepam	
30%, if <65 years of age or by at least 50%,	and protease inhibitors are administered concurrently. The	
if >65 years of age.	patient should be monitored for excessive benzodiazepine	
Because of the potential for serious and/or life-	adverse effects, such as confusion, excessive sedation, and respiratory depression.	
threatening prolonged sedation that can occur with increased plasma concentrations of midazolam, the	respiratory depression.	
concurrent use of protease inhibitors and		
midazolam is contraindicated.		
Antagonist: Flumazenıl	Antagonist: Flumazenıl	
Considerations:	Considerations:	
IV form of Midazolam may be given PO. Mix in	Flush IV before and after with normal saline.	
coke or fruit juice. Do not use Sprite or 7. Up. Do		
not administer undiluted. The drug is bitter and	Administer IV doses slowly, not to exceed	
requires flavor to mask the taste.	1 mg/minute	
Administer IV doses slowly over 2-5 minutes	Do not dilute	
Advanced as and do so 15 20 minutes assess to the	Return of drowsiness may occur 6-8 hours later because of	
Administer oral dose 15-30 minutes prior to the procedure	enterohepatic recirculation.	
procedure	Chest one pade recirculation	
!	Administer oral dose 15-30 minutes prior to the procedure	

Table 4 - Guidelines for Use of Moderate Sedation Agents

(continued)		
SEDATI	VES (continued)	
Lorazepam (Ativan)	Pentobarbital Sodium (Nembutal)	
Classification: Benzodiazepine	Classification: Barbiturate	
<u>Indications</u> : Management of anxiety, sedation, amnesia	<u>Indications</u> : Sedation	
<u>Side Effects</u> : Bradycardia, hypotension, respiratory depression, apnea, cardiac arrest, laryngospasm <u>Contraindications</u> : CNS depression, respiratory	<u>Side Effects</u> : Respiratory depression, hypotension, bradycardia, apnea (with rapid IV administration), laryngospasm, nausea, vomiting, hypothermia Contraindications: Liver impairment, chronic or acute	
depression, severe uncontrolled pain, severe hypotension	pain, porphyria	
Peak Effect: IV: 15-60 minutes Oral: 60 minutes Duration:	Onset of Action: Oral: 15-60 minutes IV: within 1 minute Duration:	
IV, Oral: 30 minutes-3 hours	Oral, rectal: 1-4 hours IV: initial sedative effect lasts 15 minutes	
<u>Dose</u> , Infants &Children: <u>Oral, IV</u> . 0.05 mg/kg/dose Maxımum recommended dose of 2 mg	Dose, Children > 6 months: Oral, IM, rectal · 2-6 mg/kg Maximum recommended dose of 100 mg IV. Initial dose 1-3 mg/kg/dose Maximum recommended initial dose of 100 mg May repeat 1 mg/kg/dose every 5 to 10 minutes up to a maximum recommended total dose of 6 mg/kg. Do not exceed 200 mg maximum recommended total dose.	
Dose, Adults: Oral, IV, IM: 0.05 mg/kg/dose Usual dose 2 mg, maximum recommended total dose of 4 mg Concomitant opioids, debilitated or patients >65 years: IV, PO: dose should not exceed 2 mg.	Dose, Adults: Oral: 100 mg IM: 150-200 mg IV: 100 mg initial dose may repeat incremental doses up to recommended maximum total dose of 200 mg	
Drug Interactions: Opioids (narcotics) or other CNS depressants may enhance sedation and respiratory depression. Antagonist: Flumazenil	Drug Interactions: Opioids (narcotics) or other CNS depressants may enhance adverse effects.	
Considerations: Although maximal CNS effects may last only up to 3 hours, lorazepam remains in the circulatory system up to 12 hours and may result in significant accumulation with repeated doses	Considerations: Highly alkaline, MUST be diluted. Dilute in Normal Saline to a maximum concentration of 10 mg/ml. Avoid extravasation or rapid IV administration. Administer IV doses @ 2 mg/kg/min (max. 50 mg/min)	
Administer IV doses slowly over 2-3 minutes Administer oral dose 15 to 30 minutes prior to the procedure	*Rapidly moves from brain to plasma so although maximal CNS effects may last only 15 minutes, pentobarbital remains in the circulatory system for over 24 hours, and there may be significant accumulation with repeated doses	

Table 4 – Guidelines for Use of Moderate Sedation Agents (continued)

(continued)		
SEDATIVES (continued)		
Chloral Hydrate	Diphenhydramine (Benadryl)	
Classification: Sedative, hypnotic	Classification: Antihistamine	
Indications: Sedation for non-painful procedures	Indications: Mild sedation, antiemetic	
Side Effects: GI upset, paradoxical excitement		
Contraindications: Hepatic or renal impairment, gastritis or ulcers, severe cardiac disease	Contraindications: Acute asthma attacks, angle- closure glaucoma, peptic ulcer, urinary tract obstruction, hyperthyroidism. Can worsen CNS and respiratory depression when used with CNS depressants	
Peak Effect: 30 minutes-1 hour	Peak Effect: 2-4 hours	
Duration: 4-8 hours	Duration: 4-7 hours	
Dose, Infants & Children:	<u>Dose</u> , Children:	
Oral, rectal: 25-50mg/kg/dose up to 1.5 gm 60 minutes prior to procedure	IV/PO: 1-1.25 mg/kg (Maximum recommended dose of 50 mg)	
May repeat 60 minutes after initial dose as needed to a total maximum recommended total dose of 125 mg/kg or 2 grams	Maximum recommended daily dose = 5 mg/kg or 300 mg * May cause excitation especially in young children.	
Dose, Adults: Oral, rectal: 1-2 grams	<u>Dose</u> , Adults: <u>IV:IM</u> : 6.25-50 mg <u>PO</u> : 25-50 mg Patients ≥65 years: not recommended	
<u>Drug Interactions:</u> May potentiate effects of CNS depressants	<u>Drug Interactions:</u> Additive sedation when given with other CNS depressants	

Table 4 – Guidelines for Use of Moderate Sedation Agents (continued)

(continued)	
REVERSA	L AGENTS
Naloxone (Narcan)	Flumazenil (Romazicon)
Classification: Opiate antagonist	Classification: Benzodiazepine antagonist
Indications: Reverse respiratory and CNS depression	Indications: Reverse sedative effect of
secondary to receiving a narcotic	Benzodiazepines
Side Effects: Nausea, vomiting, hypertension,	Side Effects: Arrhythmias, nausea, vomiting, pain at
hypotension, tachycardia, ventricular arrhythmias,	injection site, blurred vision, seizures
sweating	
Contraindications: Use with caution in patients with	Contraindications: Benzodiazepine dependence,
cardiovascular disease	benzodiazepines used for the treatment of seizures and
	tricyclic antidepressant over dose
Onset of Action:	Peak Effect: 6-10 minutes
IV. within 2 minutes ETT. within 2-5 minutes	6-10 minutes
Duration: 20-60 minutes – this is shorter than that of	Duration: 1-2 hours this is shorter than that of most
most opioids, therefore repeated doses may be needed	benzodiazepines, therefore repeated doses may be
most opiolos, therefore repeated doses may be needed	needed
Dose, Infants and Children:	Dose, Children <20 kg:
IV: 0.005-0.01 mg/kg/dose every 2-3 minutes up to	initial - 0.01 mg/kg IV over 15 seconds (max 0.2 mg)
3 doses to reverse respiratory depression	<u>repeat</u> - 0.01 mg/kg IV repeat after 1 minute
i ' '	Dose, Children 20-40 kg:
Reversal of narcotic overdose may require doses	<u>ınıtıal</u> 0.2 mg IV over 15 seconds
of 0.1 mg/kg	<u>repeat</u> - 0.2 mg IV, repeat after 1 minute
(max: 2 mg)	
Dose, Adults:	Dose, Adults:
$\overline{\text{IV}}$: 0.4-2 mg every 2-3 minutes until desired effect is	<u>ınıtıal</u> - 0.2 mg IV over 15 seconds
attained	<u>repeat</u> – 0.2 mg IV at 1 minute intervals
	*Total maximum recommended cumulative dose =
	1 mg
	<u>Drug Interactions</u> :
	Use with caution in overdosage involving mixed drug
	overdosage. Toxic effects may emerge (especially with tricyclic antidepressants) with the reversal of the
}	benzodiazepine effect by flumazenil.
Considerations:	Considerations:
Administer IV over 30 seconds, undiluted	Give through a large vein to minimize pain at injection
nammater iv over 50 seconds, ununuted	site
	Do not use to reverse sedation from Benzodiazepines
	given for seizures.

Table 4 - Guidelines for Use of Moderate Sedation Agents

	(continued)	
	LOCAL ANESTHETICS	
Lidocaine 2.5% and Prilocaine 2.5% (EMLA Cream)	Lidocaine Hydrochloride (Xylocaine)	Lidocaine Hydrochloride with Epinephrine
Classification: Local Anesthetic Indications: Topical anesthesia for use on normal intact skin Side Effects: Local pallor or blanching, erythema, alterations in temperature sensation, edema, itching	Classification: Local Anesthetic Indications: Production of local infiltration anesthesia or topical anesthesia of mucous membranes Side Effects: Bradycardia, hypotension, cardiovascular collapse, agitation, anxiety, nausea, vomiting, respiratory depression or arrest, blurred vision	Epinephrine increases the duration of action of Lidocaine by causing vasoconstriction which slows the vascular absorption of Lidocaine Do not use in distal portions of the body such as digits, nose, ears,
	*Side effects are generally dose related and may result from high plasma levels related to excessive dosage, rapid absorption or inadvertent IV infection	penis
Contraindications: Patients less than twelve months of age who are receiving treatment with methemoglobin-inducing agents, patients with a known history of sensitivity to local anesthetics of the amide type	Contraindications: Known history of hypersensitivity to local anesthetics of the amide τγρε	Dose: Children & Adults: Injection: Maximum of 4.5 mg/kg/dose. Do not repeat within 2 hours Route: percutaneous 0.5% with 1:200,000 epinephrine 1% with 1:100,000 epinephrine with 1:200,000 epinephrine
Onset of Action: 1 hour for dermal analgesia 2 hours for muscular analgesia Peak Effect: 2-3 hours Duration: 1-2 hours after removal	Onset of Action: Within 5 minutes Duration: 1-2 hours	Buffered Lidocaine Numerous studies have shown that
of cream Dose: 0.5 to 2 grams under occlusive dressing	Dose, Children & Adults: Injection: Maximum of 4.5 mg/kg/dose. Do not repeat within 2 hours. Route: Percutaneous: 0.5% to 1% solution Topical: Liquid viscous (2%)	Lidocaine can be effectively buffered with Sodium Bicarbonate. This can decrease the local pain associated with the injection of Lidocaine. Combining 9 ml of Lidocaine with 1 ml of Sodium Bicarbonate in the
Administration: Apply a thick layer of EMLA Cream to site and cover with an occlusive dressing such as Tegaderm Cream may be left on for 2-3 hours without loss of efficacy		same syringe has been shown to be an effective buffer.

- B. Credentialed Physician: A physician who meets the educational requirements established by the Director of Anesthesia for administration of moderate sedation. This includes:
 - 1. Review of sedation material provided by Anesthesia Department and successful completion of the Knowledge Assessment Test.
 - 2. Demonstrated competency by fulfilling one of the following requirements:

- a. Residency training in moderate sedation in an ACGME-approved program, or
- b. ATLS, ACLS, or PALS provider card, or
- c. A record of being proctored on at least 10 sedation cases.
- C. Qualified Registered Nurse: A Registered Nurse who has completed additional training in which competencies in sedation have been documented and patient monitoring skills are validated initially and annually. This includes a minimum requirement of current certification in Advanced Cardiac Life Support (ACLS).
- D. Non-Anesthesia Provider: A physician who is not an anesthesiologist or a Registered Nurse who is not a current CRNA.
- E. Pre-sedation status: The documented physical status of the patient prior to the administration of sedation/analgesia.
- F. Emergency equipment: This includes emergency medications—cardiac monitoring, pulse oximetry, and a defibrillator (see Table 5).

Table 5 - Emergency Equipment for Sedation and Analgesia

Appropriate emergency equipment should be available whenever sedative or analgesic drugs capable of causing cardiorespiratory depression are administered. The lists in Table 5 should be used as a guide, which should be modified depending on the individual practice circumstances. Items in brackets are recommended when infants or children are sedated utilizing intravenous medications/agents.

Intravenous equipment	 Gloves, tourniquets, alcohol wipes, sterile gauze pads, tape Intravenous fluid, Intravenous catheters (24-22 gauge), Intravenous tubing (pediatric "microdrip" (60 drops/ml)) Assorted needles for drug aspiration, intramuscular injection (intraosseous bone marrow needle) Appropriately sized syringes (1-ml syringes)
Basic airway management equipment	 Source of compressed oxygen (tank with regulator or pipeline with flowmeter Source of suction, suction catheters (pediatric suction catheters) Yankauer-type suction Face masks (infant/child), self-inflating breathing bag-valve set Oral and nasal airways (infant/child-sized), lubricant Stethoscope and pre-cordial stethoscope
Advanced airway management equipment	 Laryngeal mask airways (pediatric) Laryngoscope handles (tested), laryngoscope blades (pediatric) Endotracheal tubes: Cuffed 6.0-8.0 mm ID; uncuffed 2.5-6.0 mm ID) Intubating stylets (appropriately sized for endotracheal tubes)
Pharmacologic Antagonists	Naloxone, Flumazenil
Emergency Medications	Epinephrine, ephedrine, vasopressin, atropine, amiodarone, nitroglycerin (tablets or spray), lidocaine, diphenhydramine, Glucose 50% (10 or 25%), diazepam, or midazolam, hydrocortisone, methylprednisolone, or dexamethasone

PROCEDURES

These procedures are to be followed; however, they are not meant to be a substitute for professional judgment when assessing and treating patients.

- **MD/DO** A. Credentialed physicians administering moderate sedation/analgesia will confirm the sedation-oriented aspects of the patient's medical history and how these might alter the patient's response to sedation/analgesia immediately before the initiation of sedation.
- **MD/DO** B. Develops a sedation plan through performing and documenting a presedation assessment.
- **MD/DO** C. Writes medical order for procedure and indicates medication to be used for moderate sedation/analgesia.

MD/DO D. Validates that patient has been compliant with required fasting guidelines in Table 6. If the procedure is emergent, then the physician must make a risk/benefit assessment on proceeding without the NPO requirements being met.

Table 6 – Summary of American Society of Anesthesiologists Pre-procedure Fasting Guidelines *

* These recommendations apply to healthy patients who are undergoing elective procedures. They are not intended for women in labor. Following the Guidelines does not guarantee that complete gastric emptying has occurred.

	Ingested Material	Minimum Fasting Period ‡
	Clear Liquids	2 hours
Examples of clear liquids include water, fruit juices without pulp, carbonated beverages, clear tea, and black coffee.		
	Non-human Milk	6 hours
Since non-human milk is similar to solids in gastric emptying time, the amount ingested must be considered when determining an appropriate fasting period.		
	Light Meal	6 hours
	A light meal typically consists of toast and clear liquids. Meals that include fried or fatty foods or meat may prolong gastric emptying time. Both the amount and type of food ingested must be considered when determining an appropriate fasting period.	

Comments:

Patients with specific problems such as hypoglycemia, hepatic disease, gastroesophageal reflux, or conditions associated with delayed gastric emptying will need individualized NPO orders and/or IV fluid after being made NPO.

Milk is not a clear liquid.

- ‡ The fasting periods apply to all ages.
- **RN** E. Hands off the care of other assigned patients to another RN
- **RN** F. Confirms presence of emergency equipment and medications at bedside as listed in Table 5.
- **RN** G. Identifies the patient using two forms of identification.
- **RN** H. Begins monitoring of patient and documents the following patient parameters prior to the administration of sedation:
 - 1. anesthesia consent completed

- 2. medication(s) given prior to sedation that may affect patient's level of consciousness
- 3. known allergies
- 4. NPO timeframe
- 5. patient weight
- 6. level of consciousness and Ramsay Sedation Scale (Table 7)
- 7. neurological status, pain assessment, pain score (see Table 8)
- 8. Blood pressure, pulse rate
- 9. respiratory rate and quality
- 10. oxygen in use; percent oxygen saturation
- 11. cardiac rhythm
- 12. Intravenous (IV) site, needle gauge, type of fluid
- 13. completion of official TIME OUT process

Table 7 – Ramsay Sedation Scale

A measurement of patient sedation

- Level 1 Anxious and agitated or restless
- Level 2 Cooperative, oriented, tranquil
- Level 3 Responds to commands only
- **Level 4** Asleep, but has brisk response to glabellar tap* or loud auditory stimulus
- Level 5 Asleep, but has sluggish response to glabellar tap* or loud auditory stimulus
- Level 6 No response

^{*} Glabellar tap is a tap between the eyebrows.

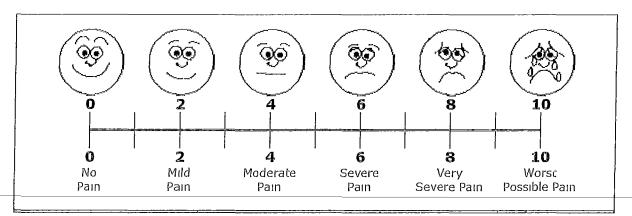


Table 8 - Zero-to-10 Numeric Pain Intensity Scale

- MD/DO I. Initiates official TIME OUTprior to sedation being given.
- **RN** J. Documents the time and dosage of all medications administered.
- K. Documents respiratory rate and quality, percent oxygen saturation, blood pressure, heart rate, pain scale scores (Table 8) and cardiac rhythm in the following intervals until the conclusion of the recovery phase:
 - 1. at least every five minutes during the procedure, and
 - 2. at the beginning and conclusion of the recovery phase, and
 - 3. at least every 15 minutes during the recovery phase unless the patient's condition warrants more frequent measurements.
- **RN** L. Continuously monitors patient's level of consciousness and records the Ramsay Sedation Scale (Table 7):
 - 1. after the administration of each sedation agent, and
 - 2. at least every 15 minute during the procedure and recovery phase.
- **RN** M. Monitors patient's oxygenation until the patient is no longer at risk for respiratory depression.
- **MD/DO** N. Documents any complications occurring during the period from initiation of sedation/analgesia until discharge of the patient from the sedation recovery area.
- **RN** O. Monitors patient until the following discharge criteria are met:
 - 1. Patient has returned to their pre-sedation mental status.
 - 2. Aldrete Score (Table 9) of 8 or higher (or patient's pre-sedation baseline score), and
 - 3. Ramsay Sedation Scale score of 2 (or the patient's pre-sedation baseline score).

- 4. Vital signs, respiratory pattern and oxygenation are stable and within acceptable limits.
- 5. In an outpatient setting:
 - a. A responsible adult is willing to accompany the patient to their home and are able to report any post-procedure complications.
 - b. Written instructions regarding post-procedure diet, medications, activities and a telephone number to be called in case of an emergency are provided.
- 6. At least two hours have elapsed since the administration of any opioid or benzodiazepine reversal agent.

Table 9 - Aldrete Scoring System

A measurement of patient recovery after anesthesia

	ACTIVITY
Score of 2	Moves 4 extremities voluntarily or to command (except surgical limitations)
Score of 1	Moves 2 extremities voluntarily or to command (except surgical limitations)
Score of 0	Moves 0 extremities voluntarily or to command
	RESPIRATION
Score of 2	Spontaneous unlabored respiration (deep breath, cough freely)
Score of 1	Dyspnea (limited breathing)
Score of 0	Apnea (assisted breathing)
	CIRCULATION
Score of 2	Blood Pressure plus or minus 20% of preanesthetic level, stable pulse
Score of 1	Blood Pressure plus or minus 20-50% of preanesthetic level, variable pulse
Score of 0	Blood Pressure plus or minus 50% of preanesthetic level, variable pulse
	CONSCIOUSNESS
Score of 2	Awake – oriented × 3 (fully awake)
Score of 1	Arousable on calling
Score of 0	Not responding, or responding only to pain
	OXYGEN LEVEL
Score of 2	Able to maintain oxygen saturation greater that 92% on room air
Score of 1	Needs oxygen inhalation to maintain oxygen saturation greater than 90%
Score of 0	Oxygen saturation less than 90% even with oxygen supplementation

A total Aldrete score is 10; a score of 9 or 10 is usually required for transfer of patient.

- **MD/DO** P. Ensures the following procedures are enacted in the event of a patient becoming obtunded and/or loss of a patent airway:
 - 1. Basic Life Support (BLS)
 - 2. Reversing opioids and/or benzodiazepines
 - 3. Issue appropriate consults such as Code Team and/or anesthesia provider as indicated.

REFERENCES

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- Texas Nurse Practice Act. 2011 (1992). Position Statement 15.8 The Role of the Nurse in Moderate Sedation.
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RELATED INTERNAL DOCUMENTS

Document Number BHCS.CEPC.8.P

Document Name Informed Consent

BUMC Crash Cart, Checking

ATTACHMENTS

Attachment Number BUMC.ANES.CARE.05.A1 Attachment Name **BUMC Sedation Record**

BUMC.ANES.CARE.05.A2

Discharge Instructions for Moderate Sedation and

Deep Sedation



Attachment Name: BUMC Sedation Record

Attachment Number: BUMC.ANES.CARE.05.A1

Date of Last Review: 09/30/2013

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SEDATION RECORD PAGE 1 OF 2

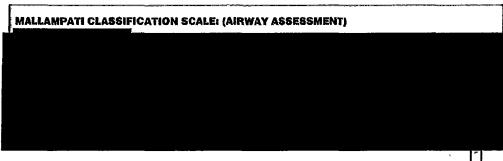
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SEDATION RECORD PAGE 2 OF 2

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CLASS I = visualization of the soft palate, fauces, uvula, anterior and posterior pillar.

CLASS II = visualization of the soft palate, fauces, uvula.

CLASS III = visualization of the soft palate and the base of the uvula.

CLASS IV = soft palate is not visible at all



BUMC Sedation Record Page 3 of 4

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BUMC Sedation Record Page 4 of 4



Policy Name:

Discharge Instruction for Moderate Sedation & Deep Sedation

Attachment Number: BUMC.ANES.CARE.05.A2

Date of Last Review: 09/30/2013

DISCHARGE INSTRUCTIONS FOR MODERATE SEDATION AND DEEP SEDATION

You have been given medication to sedate you during your procedure today. This may have included both a pain medicine and sleeping medicine. You may continue to have some drowsiness for the next 6-8 hours after discharge. Please observe the following instructions over the next 24 hours following discharge from hospital.

HOME CARE

BILLING NO. .

- 1 For at least the next EIGHT HOURS, you should be watched by a responsible adult to look for any worsening of your condition. Have this person read these sedation instructions.
- 2 DO NOT TAKE ANY OVER THE COUNTER MEDICATIONS that your doctor has not instructed you to take for the next FOUR HOURS. Non-prescribed medications might react with the medicines you were given in the hospital causing a much stronger response than usual. Continue any regularly prescribed medications as instructed by your doctor.
- 3. DO NOT DRINK any ALCOHOL for the next 24 HOURS

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DISCHARGE INS	STRUCTIONS AND DEEP SEDATION 1-275
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The following chart is a patient you cared for in the ED who was given Moderate Sedation for a procedure. Please review the Moderate Sedation quality form below, sign your name and date on the specified lines. Please make any comments or give feedback in the area provided. Thank you!

Baylor Emergency Department Physician QA Review: Moderate Sedation

Patient Name	Occurrence Dat	eProcedu	re
ID/Billing#	Physician	Nurse	
Did the physician complete the	required pre-sedation as	sessment check list? 🗖 🕻	Yes ☐ No
Was the physician credentialed	ior Moderate Sedation?		Yes 🗇 No
"Time Out" time noted?			Yes 🗇 No
Documented that patient/family	received IV sedation dis	charge instructions? 🗖 \	es 🗆 No 🗆 N/A (Admitted)
(Patients, who undergo moderate c	onscious sedation and are	discharged, must also be giv	ren the IV sedation discharge
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Any adverse outcome?			☐ Yes ☐ No
If yes, explain:			
			
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