Patient Sedation

Purpose: Proper sedation of patients requiring a painful medical procedure. This procedure is for Paramedic use only.

Indications for Sedation

1. Electrical cardioversion
2. Transcutaneous pacing
3. Post intubation sedation
4. CPAP/BiPAP if used cautiously, only under direct Medical Control Order
5. Chemical Restraint, only under direct Medical Control Order

Contraindications

1. Inability to control the patient's airway
2. As an adjunct for establishing an airway
3. Known allergy to sedation medications

Assessment

1. Evaluate adequacy of airway.
2. Evaluate presence of adequate ventilation with oxygenation.
3. Monitor vital signs and level of consciousness.
4. Monitor ECG.
5. Monitor Pulse oximetry, if available.

Pre-Medical Control

PARAMEDIC

Procedure

1. Maintain airway, provide oxygenation and support ventilation.
2. Obtain vascular access.
3. For Electrical cardioversion, transcutaneous pacing, and post intubation sedation sedate patient to a level of consciousness where procedure can be performed, per MCA selection.

Adult Sedation: (Select Options)
(Titrate to minimum amount necessary)

- ☐ Midazolam 1-5 mg (0.05 mg/kg) IV/ IO titrated slowly, may repeat once in 5 minutes to a maximum of 0.1 mg/kg.
- ☐ Diazepam 5-10 mg (0.1 mg/kg) IV/ IO titrated slowly, may repeat every 5 minutes to a maximum of 0.3 mg/kg.
- ☐ Lorazepam 1-2 mg (0.1 mg/kg, max 4 mg/dose) IV/ IO titrated slowly, may repeat every 5 minutes to a maximum of 8 mg.
- ☐ Fentanyl 50-100 mcg (1 mcg/kg) IV/IO titrated slowly, may repeat every 5 minutes to a maximum of 3 mcg/kg.

Pediatric Sedation: (Select Options)
(Titrate to minimum amount necessary)

- ☐ Midazolam 0.05 mg/kg IV/ IO titrated slowly, may repeat once in 5 minutes to a maximum of 0.1 mg/kg.
- ☐ Diazepam 0.1 mg/kg IV/ IO titrated slowly, may repeat every 5 minutes to a maximum of 0.3 mg/kg.
- ☐ Lorazepam 0.1 mg/kg, max 4 mg/dose IV/ IO titrated slowly, may repeat every 5 minutes to a maximum of 8 mg.
- ☐ Fentanyl 1 mcg/kg IV/IO titrated slowly, may repeat every 5 minutes to a maximum of 3 mcg/kg.

Post-Medical Control:

Possible orders post radio contact:

1. Additional sedation as needed.
2. Sedation for CPAP/BiPAP
3. Sedation for Chemical Restraint

NOTE: Calculating medications when given a dosage range and a per kg dose:

1. Calculate weight in kilos and multiply by the prescribed dosage (e.g. - mg/kg)

2. The resultant dose should fall within the listed dosing range. For ease of administration, doses may be rounded to the nearest whole number within the range for those calculated doses at or above 1 dosage unit, or to the nearest tenth for those below 1 dosage unit (examples: 1.2mg rounded to 1mg, and 0.26mg rounded to 0.3mg). That calculated and rounded dose may be given and repeated in timed intervals, as indicated for that medication, to the control of symptoms or maximum stated cumulative dose if symptom control is not previously achieved.

3. Patients who are very small or very large may fall below or exceed the dosing range, respectively. Those that fall below should be given the lowest dose in the range. Those that exceed the range should be given the maximum dose within the range.

4. Pediatric patients will never be given a single or total dose that exceeds the maximum single or total adult dose.

"Titrated slowly" means administering the medication over 1 to 2 minutes.