



# REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME

**rocuronium**



<b>Effective Date:</b> Dec 2011 <b>Revised Date:</b> Mar9-2016	<b>CLASSIFICATION</b> <b>Neuromuscular blocking agent</b>	<b>OTHER NAMES</b> <b>Zemuron</b>	<b>PAGE</b> 1 of 2
---	--	--------------------------------------	-----------------------

**ADMINISTRATION POLICY:**

IV bolus – **May be administered by a nurse under direct supervision of physician in ED**  
 IV intermittent – **May be administered by a nurse under direct supervision of physician in ED**

**RECONSTITUTION/DILUTION/ADMINISTRATION:**

**Available as:** 10 mg/mL – 5 mL vial. REFRIGERATE.

**IV bolus:** Administer undiluted OR diluted in normal saline over 1 minute. Flush catheter with normal saline after each dose.

**Intermittent:** Administer undiluted OR diluted in normal saline over 2 – 3 minutes. Flush catheter with normal saline after each dose.

**Central:** No special considerations. Refer to IV bolus.

**DOSAGE:**

**IV bolus:** Load: 0.6 – 1.2 mg/kg/dose  
**IV intermittent:** Maintenance: 0.075–0.15 mg/kg/dose every 20 – 30 minutes to effect  
**IV infusion:** 4 -- 6 mcg/kg/minute

**Renal impairment:** No dosage adjustment required. No prolongation of effect observed.

**Hepatic impairment:** Load: Use higher end of dosage range (increased volume of distribution)  
 Maintenance: Usual dosage but increase dosing interval (decreased hepatic clearance)

**Obesity:** Load: Actual body weight  
 Maintenance: Ideal body weight

**Maximum concentration :** IV bolus: 10 mg/mL

**STABILITY/COMPATIBILITY:**

**Stability of reconstituted vial:** unopened vial -- 90 days at room temperature  
 opened vial -- 30 days at room temperature

**Stability of final admixture:** 24 hours at room temperature

**Compatibility:** Compatible with D5W, normal saline, Lactated Ringer



# REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME

**rocuronium**



<p><b>Effective Date:</b> Dec 2011</p> <p><b>Revised Date:</b> Mar9-2016</p>	<p>CLASSIFICATION <b>Neuromuscular blocking agent</b></p>	<p>OTHER NAMES <b>Zemuron</b></p>	<p>PAGE 2 of 2</p>
--	---	---------------------------------------	------------------------

**PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:**

- CV: Hypotension, hypertension, arrhythmia, tachycardia
- GI: Vomiting
- Resp: Bronchospasm
- Local: Injection site edema, rash, pruritis
- Other: Hiccoughs, muscle weakness (especially after prolonged infusions)
- Caution in patients with myasthenia gravis or pulmonary disease
- Administration **MUST** be accompanied by adequate anesthesia or sedation
- Contraindications with hypersensitivity to rocuronium

**ADDITIONAL NOTES AND NURSING CONSIDERATIONS:**

- Onset of action: 1 minute (range: 0.5 – 3.3 minutes)
- Duration of action: 27 minutes (mean) (range: 17 – 41 minutes): duration longer in children under 1 year of age
- **Required monitoring**
  - Cardio-respiratory monitoring required
  - Adequacy of sedation or anesthesia (rocuronium provides no sedative activity)