



REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME **adenosine**

Effective Date: May 201 Revised Date: Jan 2024	13	CLASSIFICATION Antidysrhythmic	OTHER NAMES Adenocard®	PAGE 1 of 2		
ADMINISTRATION POLICY:						
IV Injection: Restricted to nurses in ED/ICU. Physician must be present						
RECONSTITUTION/DILUTION/ADMINISTRATION:						
Available as:	Available as: $3 \text{ mg/mL} - 6 \text{ mg/2 mL}$ Pre-Filled Syringe					
RAPID DIRECT:	Administer undiluted or diluted in normal saline (only)					
		Diluting medication prior to administration preferred. Facilitates administration of all of does (no loss of IV connectors). Refer to standard dilutions (preferred below).				
	Infuse medication rapidly over 1 to 2 <u>seconds</u> directly into a vein or via an injection site adjacent to the catheter. Flush catheter immediately <u>and</u> rapidly with normal saline. Do <u>NOT</u> administer slowly (medication inactivated in blood stream).					
	Preferred:Final ConcentrationAdenosine 3 mg/mLNormal SalineFinal Volume					
0.1 mg/mL	Final Concentration		L Normal Saline 29 mL	Final Volume 30 mL		
0.5 mg/mL		1 mL (3 mg) 1 mL (3 mg)	5 mL	6 mL		
CENTRAL: Large peripheral veins (e.g. median, cubital, and cephalic) <u>or</u> central veins preferred site of administration to maximize efficacy. Decrease dose if catheter tip in heart (refer to CAUTION). Refer to RAPID DIRECT						
Maximum Concentra	tion:	3 mg/mL				
DOSAGE: Superaventricular Ta IV Infant, Child	nchyca	Initial:0.05 mRepeat:0.1 to dosage	ng/kg/dose RAPID DIRECT IV (n 0.15 mg/kg/dose as needed. Repe e increments of 0.05 mg/kg/dose u red.	at every 1 to 2 minutes with		
Note:	Maximum single dose:0.35 mg/kg/dose (maximum: 12 mg/dose)Maximum total dose:0.75 mg/kg/dose1. Dilute medication prior to administration to improve efficacy (refer to Reconstitution/Dilution/Administration)2. Decrease dosage in patients with ventricular dysfunction3. Decrease initial dosage by at least 50% in patients with right to left cardiac shunts.					
Renal Impairment: Hepatic Impairment: Obesity:	No c	No dosage adjustment require No dosage adjustment required No information. Use lean body weight since adenosine distributes to central compartment.				

Approved by Regional Pharmacy & Therapeutics Committee





REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME adenosine

Effective Date: May 2013	CLASSIFICATION	OTHER NAMES Adenocard®	PAGE		
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STABILITY/COMPATIBILITY:					
Stability of Reconstitution Solution: 24 hours at room temperature					
Stability of Final Admixture: Use diluted solutions immediately					
Compatibility:	Incompatible with	Compatible with normal saline Incompatible with dextrose containing solutions			
PRECAUTIONS, POTENTIAL ADVERSE REACTIONS: Adverse reactions are frequent but transient (less than1 minute) and usually do not require intervention.					
proarrhytl fibrillation infants – o	facial flushing, sweating proarrhythmic – may produce transient arrhythmias such as sinus bradycardia, sinus node arrest, atrial fibrillation, AV block, PVC or ventricular tachycardia infants – occasionally transient sinus bradycardia with systemic hypotension followed by reflux tachycardia. <u>NOTE:</u> more common if adenosine injected slowly (vasodilatory actions predominate)				
GI: nausea, m	nausea, metallic tastes				
NEURO: lightheade	lightheadedness, headache, dizziness				
RESP: dyspnea, 1	dyspnea, respiration-associated chest discomfort, bronchospasm (especially in patients with asthma)				
 methylxanthines (e.g. May precipitate brond Patients with ventricular cardiac function or certain function or certain function. 	concurrent use of carbamazepine theophylline, caffeine) antagoniz choconstriction in patients with hi lar dysfunction or right to left car entral administration with decrease r excess vasodilation may result.	ze the action of adenosine; large istory of hyperactive airways di rdiac shunts have a potentially	e dose of adenosine required. isease or asthma greater response due to poor		
• Patients with second	S: or third degree heart block or sick	sinus syndrome without a fun	ctioning pacemaker		

- Patients with atrial flutter, atrial fibrillation or ventricular tachycardia
- Concurrent use of dipyridamole potentiates action of adenosine and may produce sinus arrest or complete AV block.

REQUIRED MONITORING:

- Cardiac monitoring required during administration of all doses and for 10 minutes following last dose of adenosine.
- Other monitoring (e.g. blood pressure, temperature, serum electrolytes) as appropriate for age and patient situation.