

ADENOCARD (ADENOSINE)

Indications:

- Supraventricular Tachycardia SVT (including WPW) refractory to vagal maneuvers
- Consider in Regular Wide Complex Tachycardia

Contraindications:

- Known Sick sinus syndrome
- Known History of Long QT Syndrome
- Irregular Wide-complex tachycardia

Precautions:

- Advising patient of the side effects of adenosine prior to administering can help minimize patient anxiety
- Large bore IV, antecubital access or IO access IV wide open during administration
- Start your EKG printout before administration and continue printing through bolus and conversion.
- Administration of adenosine can cause a period of asystole & various conversion dysrhythmias, be patient, most will transiently resolve.

Side Effects:

- Flushing
- Dizziness
- Chest Pain
- Lightheadedness
- Dyspnea
- Numbness
- Headache
- Nausea/Vomiting
- Diaphoresis
- Palpitations
- Metallic Taste Interactions
- Additive Effects: Digoxin, calcium channel blockers
- Antagonistic Effects: Methylxanthines (caffeine, theophylline)
- Potentiating Effects: Dipyridamole (Persantine), Carbamazepine (Tegretol)

Class: Supraventricular Antiarrhythmic, Nucleoside

Mechanism of Action: Slows tachycardias associated with the AV node via modulation of the autonomic nervous system without causing negative inotropic effects. It acts directly on sinus pacemaker cells and vagal nerve terminals to decrease chronotropic & dromotropic activity. Slows conduction through the AV node, blocks reentry pathways through the AV node, can transiently slow conduction in the SA node.

ADENOCARD (ADENOSINE) cont.

Concentration: 6.0 mg/2.0 ml

Dosage:

Adult:

- **Regular Narrow Complex Tachycardia**
1st Dose: 6.0 mg IV/IO rapid bolus followed by a rapid 20.0 ml flush
2nd Dose: 12.0 mg IV/IO rapid bolus followed by a rapid 20.0 ml flush

- **Regular Wide Complex Tachycardia**
Consider 6.0 mg IV/IO rapid bolus followed by a rapid 20.0 ml flush

Pediatric:

- **1st Dose:** 0.1 mg/kg (0.03ml/kg) IV/IO rapid bolus followed by a rapid 20.0 ml flush

3KG	4KG	5KG	6KG	7KG	8KG	9KG	10KG	11KG	12KG	13KG
0.9ml	0.12ml	0.15ml	0.18ml	0.21ml	0.24ml	0.27ml	0.3ml	0.33ml	0.36ml	0.39ml

14KG	15KG	16KG	17KG	18KG	19KG	20KG	21KG	22KG	23KG	24KG
0.42ml	0.45ml	0.48ml	0.51ml	0.54ml	0.57ml	0.60ml	0.63ml	0.66ml	0.69ml	0.72ml

25KG	26KG	27KG	28KG	29KG	30KG	31KG	32KG	33KG	34KG	35KG
0.75ml	0.78ml	0.81ml	0.84ml	0.87ml	0.90ml	0.93ml	0.96ml	0.99ml	1.02ml	1.05ml

36KG
1.08ml

- **2nd Dose:** 0.2 mg/kg (0.07ml/kg) IV/IO rapid bolus followed by a rapid 20.0 ml flush

3KG	4KG	5KG	6KG	7KG	8KG	9KG	10KG	11KG	12KG	13KG
0.21ml	0.28ml	0.35ml	0.42ml	0.49ml	0.56ml	0.63ml	0.70ml	0.77ml	0.84ml	0.91ml

14KG	15KG	16KG	17KG	18KG	19KG	20KG	21KG	22KG	23KG	24KG
0.98ml	1.05ml	1.12ml	1.19ml	1.26ml	1.33ml	1.4ml	1.47ml	1.54ml	1.61ml	1.68ml

25KG	26KG	27KG	28KG	29KG	30KG	31KG	32KG	33KG	34KG	35KG
1.75ml	1.82ml	1.89ml	1.96ml	2.03ml	2.1ml	2.17ml	2.24ml	2.31ml	2.38ml	2.45ml

36KG
2.52ml