

Diltiazem (Cardizem) Bolus Dose and Infusion

Indication:	Atrial fibrillation, paroxysmal supraventricular tachycardia
How supplied:	<ul style="list-style-type: none"> • Diltiazem 25 mg/5mL vials (ER-1, ICU pyxis) • Diltiazem 125 mg/25 mL vials (ER-1, ICU pyxis)
How prepared:	<ul style="list-style-type: none"> • Bolus: 0.25 mg/kg IVP over 2 min <ul style="list-style-type: none"> ○ If no response after 15 min, a second bolus dose of 0.35 mg/kg IVP over 2 min, PRN
	<ul style="list-style-type: none"> • Maintenance infusion: <ul style="list-style-type: none"> ○ Add 125 mg (25 mLs) to 100 mg NS 0.9% bag ○ Concentration = 1 mg/1 mL
Dosing & Administration:	<ul style="list-style-type: none"> • Rates: <ul style="list-style-type: none"> ○ Initial rate: 10 mg/hr (10 mLs/hr) ○ Usual rate: 5-15 mg/hr (5-15 mLs/hr) ○ Titrate by 5 mg/hr (5 mLs/hr) increments every 30 min ○ Maximum rate: 15 mg/hr (15 mLs/hr)
Miscellaneous:	<ul style="list-style-type: none"> • Rates greater than 15 mg/hr or infusions longer than 24 hours are not recommended
Contraindications:	<ul style="list-style-type: none"> • Diltiazem can precipitate or exacerbate HF or cause excessive bradycardia or cardiac conduction abnormalities in patients with ventricular dysfunction, severe bradycardia, cardiogenic shock, or CHF and/or patients taking beta-blockers • Diltiazem is contraindicated in patients with AMI and pulmonary congestion and should not be used in patients with AMI and associated left ventricular dysfunction or CHF • Further, in patients with cardiogenic shock, intravenous diltiazem is contraindicated

Loading dose: 0.25 mg/kg		
Weight (kg)	Dose (Mg)	Volume (mL)
40	10.0	2.0
45	11.3	2.3
50	12.5	2.5
55	13.8	2.8
60	15.0	3.0
65	16.3	3.3
70	17.5	3.5
75	18.8	3.8
80	20.0	4.0
85	21.3	4.3
90	22.5	4.5
95	23.8	4.8
100	25.0	5.0
105	26.3	5.3
110	27.5	5.5
115	28.8	5.8
120	30.0	6.0
125	31.3	6.3
130	32.5	6.5
135	33.8	6.8
140	35.0	7.0
145	36.3	7.3
150	37.5	7.5
155	38.8	7.8
160	40.0	8.0
165	41.3	8.3
170	42.5	8.5
175	43.8	8.8
180	45.0	9.0
185	46.3	9.3
190	47.5	9.5
195	48.8	9.8
200	50.0	10.0

Loading dose: 0.35 mg/kg		
Weight (kg)	Dose (Mg)	Volume (mL)
40	14.0	2.8
45	15.8	3.2
50	17.5	3.5
55	19.3	3.9
60	21.0	4.2
65	22.8	4.6
70	24.5	4.9
75	26.3	5.3
80	28.0	5.6
85	29.8	6.0
90	31.5	6.3
95	33.3	6.7
100	35.0	7.0
105	36.8	7.4
110	38.5	7.7
115	40.3	8.1
120	42.0	8.4
125	43.8	8.8
130	45.5	9.1
135	47.3	9.5
140	49.0	9.8
145	50.8	10.2
150	52.5	10.5
155	54.3	10.9
160	56.0	11.2
165	57.8	11.6
170	59.5	11.9
175	61.3	12.3
180	63.0	12.6
185	64.8	13.0
190	66.5	13.3
195	68.3	13.7
200	70.0	14.0