

Drug: **ESMOLOL HCL (Brevibloc)**
 2.5 gm in 250 ml 0.9% NaCl (10mg/ml)

For ED Use Only

Indication 1: **Supraventricular tachycardia (SVT)**

Suggested Regimen:	Initial dose	Maintenance dose	Titration dose	Maximum dose
250 to 500 mcg/kg undiluted IV push over 1 minute followed by maintenance infusion (50 mcg/kg/min for 4 mins). May repeat same IV push and increase infusion to 100 mcg/kg/min.		50 mcg/kg/min over 4 min	50 mcg/kg/min q 10 min	200 mcg/kg/min

Indication 2: **Peri-operative tachycardia and/or hypertension**

Suggested Regimen:	Initial dose	Maintenance dose	Titration dose	Maximum dose
80 mg undiluted IV push over 30 seconds followed by maintenance infusion.		150 mcg/kg/min	50 mcg/kg/min q 10 min	300 mcg/kg/min

Precautions: Use with extreme caution in asthmatics, diabetics, impaired renal function or patients with hx of hypotension, and CAD. May cause arrhythmia, angina, MI or death if stopped abruptly. May cause hypoglycemia and mask the symptoms.

Monitor: ECG, BP (hypotension), HR (bradycardia), respiratory status

Comments: Potent drug, must be diluted prior to its infusion. NOT compatible with sodium bicarbonate 5% inj.

Loading Dose

Wt (kg)	50	55	60	65	70	75	80	85	90	95	100	105	110
Dose mcg/kg	Loading dose in ml by slow IV push (over 60 seconds)												
250	1.3	1.4	1.5	1.6	1.8	1.9	2	2.1	2.3	2.4	2.5	2.6	2.8
500	2.5	2.8	3	3.3	3.5	3.8	4	4.3	4.5	4.8	5	5.3	5.5

Infusion Dose

Wt (lbs)	110	121	132	143	154	165	176	187	198	209	220	231	242
Wt (kg)	50	55	60	65	70	75	80	85	90	95	100	105	110
Dose mcg/kg/min	Infusion Rate in ml/hr												
50	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30	31.5	33
100	30	33	36	39	42	45	48	51	54	57	60	63	66
150	45	49.5	54	58.5	63	67.5	72	76.5	81	85.5	90	94.5	99
200	60	66	72	78	84	90	96	102	108	114	120	126	132
250	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165
300	90	99	108	117	126	135	144	153	162	171	180	189	198

These guidelines serve to give dosage ranges and rates of administration. All clinicians are expected to be thoroughly familiar with the drugs mentioned herein.