Esmolol (Brevibloc) Considerations for Use*

US/FDA Approved Indication: Heart Rate Control for Atrial Fibrillation

Black Box Warning*	Abrupt cessation may exacerbate angina pectoris and MI.
Mechanism of Action	Blocks binding of catecholamines to beta-1 receptors; mainly beta-1 selective
Dosing [†]	Acute setting: 500 mcg/kg IV over 1 min, then 50 to 200 mcg/kg/min
	Hepatic Impairment: No dosage adjustment needed
	Renal Impairment: No dosage adjustment needed
Contraindications	AV block
	Bradycardia
	cardiogenic shock
	decompensated heart failure
	pulmonary edema
Major side effects	hypotension, heart block, bradycardia, bronchospasm, HF
Dosage forms and Strengths	IV: 10 mg/mL , 20 mg/mL solution for injection
Special Notes	Half-life: 9 minutes
	Esmolol infusions should not be abruptly discontinued; the infusion rate should be tapered
	Avoid using butterfly needles and very small veins for infusion; infusion via central line is preferred when feasible
	Avoid extravasation
Counseling	n/a

^{*}Refer to prescribing information for more complete information.

Sources:

- 1. American College of Cardiology (ACC), American Heart Association (AHA), and the European Society of Cardiology (ESC). ACC/AHA/ESC 2006 Guidelines for the Management of Patients With Atrial Fibrillation. Washington, DC: American College of Cardiology.
- 2. Heart Rhythm Society. AF360 Pocket Guide: Practical Rate and Rhythm Management of Atrial Fibrillation. 2010, Washington, DC: Heart Rhythm Society.
- 3. Tarascon Pocket Pharmacopoeia®2012.

[†]Dosages given in the table may differ from those recommended by the manufacturers.