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High Alert

metoprolol (me-toe-proe-lole)
 ◆ Betaloc IV, ◆ Lopresor, ◆ Lopresor SR, Lopresor, Toprol-XL

Classification
 Therapeutic: antianginals, antihypertensives
 Pharmacologic: beta blockers

Pregnancy Category C

Indications
 Hypertension, Angina pectoris. Prevention of MI and decreased mortality in patients with recent MI. Management of stable, symptomatic (class II or III) heart failure due to ischemic, hypertensive or cardiomyopathic origin (may be used with ACE inhibitors, diuretics and/or digoxin; Toprol XL only). Unlabeled Use: Ventricular arrhythmias/tachycardia, Migraine prophylaxis, Tremors, Aggressive behavior, Drug-induced akathisia, Anxiety.

Action
 Blocks stimulation of beta₁(myocardial)-adrenergic receptors. Does not usually affect beta₂(pulmonary, vascular, uterine)-adrenergic receptor sites. **Therapeutic Effects:** Decreased BP and heart rate. Decreased frequency of attacks of angina pectoris. Decreased rate of cardiovascular mortality and hospitalization in patients with heart failure.

Pharmacokinetics
Absorption: Well absorbed after oral administration.
Distribution: Crosses the blood-brain barrier, crosses the placenta; small amounts enter breast milk.
Metabolism and Excretion: Mostly metabolized by the liver (primarily by CYP2D6; the CYP2D6 enzyme system exhibits genetic polymorphism). 80-75% of population may be poor metabolizers and may have significantly ↑ metoprolol concentrations and an ↑ risk of adverse effects.
Half-life: 3-7 hr.

◆ = Common drug name ◆ = Generic trade name CYP2D6 defect ◆ = contraindicated ◆ = caution ◆ = avoid ◆ = contraindicated

TIME/ACTION PROFILE (cardiovascular effects)

ROUTE	ONSET	PEAK	DURATION
PO†	15 min	unknown	6-12 hr
PO-ER	unknown	6-12 hr	24 hr
IV	20 min	20 min	5-8 hr

(Maximal effect on BP (chronic therapy) may not occur for 1 wk. Hypotensive effects may persist for up to 4 wk after discontinuation.)

Contraindications/Precautions
 Contraindicated in: Uncompensated HF, Pulmonary edema, Cardiogenic shock, Bradycardia, heart block, or sick sinus syndrome (in absence of pacemaker).
 Use Cautiously in: Renal impairment, Hepatic impairment, Gerd, ↑ sensitivity to beta blockers, initial dose reduction recommended, Pulmonary disease (including asthma; beta₂ selectivity may be lost at higher doses), Diabetes mellitus (may mask signs of hypoglycemia), Thyrotoxicosis (may mask symptoms), Patients with a history of severe allergic reactions (intensity of reactions may be increased), Untreated pheochromocytoma (initiate only after alpha blocker therapy started), **OR, Lactation, Prol:** Safety not established; all agents cross the placenta and may cause fetal/neonatal bradycardia, hypotension, hypoglycemia, or respiratory depression.

Adverse Reactions/Side Effects
 CNS: fatigue, weakness, anxiety, depression, dizziness, drowsiness, insomnia, memory loss, mental status changes, nervousness, nightmares. EENT: Blurred vision, stuffy nose. Resp: brachospasm, wheezing. CV: BRADYCARDIA, HF, PULMONARY EDEMA, hypotension, peripheral vasoconstriction. GI: constipation, diarrhea, drug-induced hepatitis, dry mouth, flatulence, gastric pain, heartburn, ↑ liver enzymes, nausea, vomiting. GU: erectile dysfunction, ↓ libido, urinary frequency. DERM: rashes. Endoc: hyperglycemia, hypoglycemia. MS: arthralgia, back pain, joint pain. Misc: drug-induced lupus syndrome.

Interactions
Drug-Drug: General anesthesia, IV phenytoin, and verapamil may cause ↓ myocardial depression. ↑ risk of bradycardia when used with digoxin, verapamil, diltiazem, or clonidine. ↑ hypotension may occur with other antihypertensives, acute ingestion of alcohol, or nitrates. Concurrent use with amphetamines, cocaine, ephedrine, epinephrine, norepinephrine, phenylephrine, or pseudoephedrine may result in unopposed alpha adrenergic stimulation (exacerbate by



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