

# Labetalol

## GENERIC NAME

Labetalol

## TRADE NAME

Trandate

## DESCRIPTION

Labetalol is a selective Alpha and Beta-Blocker used to manage hypertensive emergencies. It lowers blood pressure by decreasing systemic vascular resistance without significantly affecting stroke volume, heart rate, or cardiac output.

## HOW SUPPLIED

Vial: 5 mg/ml (100 mg/20 ml)

## INDICATIONS

- Hypertensive emergencies with acute neurological symptoms and signs of end-organ damage

## CONTRAINDICATIONS

- Hypersensitivity to Labetalol
- Pulmonary edema/crackles or overt cardiac failure
- Cardiogenic shock
- Second or third-degree AV blocks
- Heart rate less than 70 bpm

## MECHANISM OF ACTION

Labetalol blocks both Alpha- and Beta-adrenergic receptors. It reduces blood pressure by decreasing systemic vascular resistance, with minimal effect on stroke volume, heart rate, and cardiac output. Onset of action is typically within 5 minutes.

## SIDE EFFECTS

- Nausea
- Vomiting
- Dizziness
- Bradycardia
- Hypotension

## AUTHORIZATION

**EMT:** Not authorized

**EMT-I:** Not authorized

**Paramedic:** Standing order

## DOSAGE

- **Adult:** 10 mg IV/IO over 2 minutes. May repeat dose after 10 minutes with Medical Control approval, up to a maximum of 30 mg. *(Do not reduce the initial blood pressure by more than 25% in the first hour.)*
- **Pediatric:** Contact Medical Control

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