

Douglas County EMS Formulary

Racemic Epinephrine

FL-002

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Effective: 04/01/2026

Supersedes:
N/A

Approved Providers: Paramedic

Reference Protocols: [Breathing Difficulty](#)

Dosing & Administration

ADULT Medications

- Pediatric only

PEDIATRIC Medications

- 0.5cc diluted with 3cc administered over 5-15 minutes via nebulizer
Single dose only

Pharmacology & Actions:

- Stimulates alpha and beta adrenergic receptors
- Reduces mucosal edema
- Only helpful in upper airway edema
- Less than 5 minute half life

Indications:

- Moderate to severe croup with stridor at rest not solely related to agitation or cough

Contraindications:

- None

Precautions:

- Monitor SPO2, lung sounds, ETCO2, and respiratory mechanics continuously
- Age-specific parameters regarding croup and bronchiolitis are constantly shifting, consider in any pediatric patient with respiratory distress.

Administration:

- 0.5cc diluted with 3cc of NS administered over 5-15 minutes via nebulizer with 6-8lpm of oxygen

Side Effects:

- Tachycardia
- Paleness/ duskiness around lips/ face
- Dry mucous membranes
- Hypertension
- Tremors
- Anxiety