

(Adult and Child)

ACUTE RESPIRATORY DIFFICULTY
(Progressive Swelling, Stridor, Wheezing, Distress)
and/or
SIGNS OF SHOCK/HYPOTENSION
(especially if skin or mucosal changes are present)

Early (first line) treatment

ADRENALINE
1mg/ml (1:1000) - 0.01mg/kg IM (Maximum - 0,5ml IM)
or
Auto-Injector
> 6 yrs - 0,3 ml IM
< 6 yrs - 0,15 ml IM
REPEAT EVERY 5 - 15 MINUTES IF NO IMPROVEMENT

OXYGEN - MONITORS - IV ACCESS

- High flow oxygen
- Maintain patent airway (Intubate/Cricothyrotomy if necessary)
- BP, Sats, ECG monitoring
- Lie patient supine with legs elevated if hypotensive
- High flow IV line

Adjunctive treatment

H1 ANTIHISTAMINE
Promethazine
> 12 yrs - 25 mg IM or slow IV
6 - 12 yrs - 12,5 mg IM or slow IV
2 - 6 yrs - 6,25 mg IM or slow IV
(Avoid if < 2 yrs old and low BP)

CRYSTALLOID
(e.g. Ringers/Balsol)
Rapid infusion of 1 - 2 litres (20 ml/kg for children) if no response to adrenaline
Repeat IV infusion as necessary, as large amounts may be required
Adrenaline infusion (0,1 - 1 ug/kg/min) ONLY if unresponsive to IM adrenaline and fluids

NEBULISED BRONCHODILATORS
(if severe bronchospasm, and especially if on beta blockers)
Salbutamol
> 6 yrs - 5 mg every 15 - 20 mins
< 6 yrs - 2,5 mg every 15 - 20 mins
WITH Ipratropium
> 6 yrs - 0,5 mg every 15 - 20 mins
< 6 yrs - 0,25 mg every 15 - 20 mins

H2 RECEPTOR ANTAGONIST
Ranitidine
Adult - 50 mg IM or slow IV (diluted in 20 ml over 2 min)
Child - 1 mg/kg (Max - 50 mg)
OR
Cimetidine
Adult - 300 mg IM or slow IV (diluted in 20 ml over 2 min)
Child - 5 mg/kg (Max - 300 mg)

GLUCAGON
Adult - 1 - 2 mg IM or slow IV every 5 mins if unresponsive to adrenaline, and especially if on beta blockers
Child - 20 ug/kg (Max - 1 mg)

(Look out for vomiting and hyperglycaemia)

CORTICOSTEROIDS
Hydrocortisone
> 12 yrs - 200 mg IM or slow IV
6 - 12 yrs - 100 mg IM or slow IV
1 - 6 yrs - 50 mg IM or slow IV
< 1 yr - 25 mg IM or slow IV

Important Information

Q When is it appropriate to initiate treatment for Anaphylaxis?

A ANY SYMPTOMS SHOULD BE TREATED IMMEDIATELY. Do not wait for symptoms to progress.¹

Q What should happen once a patient is resuscitated?

A Patients must be transferred to a medical facility

for observation for 4 - 6 hours or longer based on the severity of the reaction due to the risk of biphasic reaction.²

Q What is the discharge protocol for patients leaving the hospital?

A Ensure patients leave with:²
1. A referral to a specialist
2. An Anaphylaxis Emergency Action Plan
3. An Adrenaline Auto-Injector

Q Why are Antihistamines considered adjunctive treatment?

A H1-antihistamines may relieve itching and urticaria but do not prevent or relieve life threatening symptoms of anaphylaxis.²
The use of antihistamines alone is the most common reason reported for not using adrenaline and may place a patient at **significantly increased risk for progression towards a life-threatening reaction.**

For more information visit www.resuscitationcouncil.co.za



References: 1. Simons FER, Arduoso LRF, Biló MB, El-Gamal YM, Ledford DK, Ring J, et al. World Allergy Organization guidelines for the assessment and management of anaphylaxis. WAOJ. 2011. 2. Boyce JA, Assa'ad A, Burks AW, et al. Guidelines for the Diagnosis and Management of Food Allergy in the United States: Report of the NIAID-Sponsored Expert Panel. J Allergy Clin Immunol. 2010;126:6:S1-S58.

Proudly sponsored by:



Seeing is believing

EPIPEN® (Auto-injector). Reg. No.: 27/5.1/0063. Adrenaline 0,3 mg / 0,3 ml. EPIPEN Junior® (Auto-injector). Reg. No.: 38/5.1/0278. Adrenaline 0,15 mg / 0,3 mg. For full prescribing information refer to the package insert approved by the medicines regulatory authority.