

Guideline Evidence

Guideline Topic: Diagnosis and Management of Anaphylaxis

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Date of Creation: (9.14.10)Update 3.22.13 Sugg Update: 2015

Search Criteria: Anaphylaxis, allergic reaction, EpiPen, epinephrine,
H1-antihistamine, H2-antihistamine, Glucocorticoid

Databases: Ovid, PubMed, Cochrane Database, National Guidelines Clearinghouse

Key Guidelines (Dates) NIAID/FAAN 2005; JTFFP 2005

#	Recommendation	Source	Classification	Level of Evidence
1	<p>Definition of Anaphylaxis 1) Sampson HA et al. Second symposium on the definition and management of anaphylaxis: summary report – Second National Institute of Allergy and Infectious Disease/Food Allergy and Anaphylaxis Network Symposium. <i>J Allergy Clin Immunol</i> 2006;117:391-7. (NIAID/FAAN)</p> <p>2) Lieberman, P et al. The diagnosis and management of anaphylaxis: An updated practice parameter. <i>J Allergy Clin Immunol</i> 2005; 115:S483-523. Joint Task Force on Practice Parameters (JTFFP)</p> <p>3) Campbell et al. Evaluation of NIAID/FAAN criteria for the diagnosis of anaphylaxis in emergency department patients. <i>J Allergy Clin Immunol</i> 2012; 129:748-52</p>	NIAID/FAAN 2005 ¹ JTFFP 2005 ² Campbell et al. ³	Panel Consensus ^{1,2} Retrospective Cohort Study ³	IV (Agency for Healthcare Policy and Research Classification) IIb ³
2	<p>Epinephrine 1:1000 IM vs. SC administration in adults 4) Simons, FER et al. Epinephrine absorption in adults: Intramuscular versus subcutaneous injection. <i>J Allergy Clin Immunol</i> 2001;108:871-873.</p>	Simons et al. ⁴ NIAID/FAAN 2005 ¹	RCT	IIb
3	<p>Epinephrine as first line agent, administered IM/SC 5) Sheikh, A et al. Adrenaline (epinephrine) for the treatment of anaphylaxis with and without shock. (Review) <i>The Cochrane Collaboration</i>. 2012 (4). 6) Sheikh, A et al. Adrenalin auto-injectors for the treatment of anaphylaxis with and without cardiovascular collapse in the community. (Review) <i>The Cochrane Collaboration</i> 2012 (8)</p>	JTFFP 2005 ² ; Cochrane Review 2012 ^{5,6}	Panel Consensus; Meta-analysis with no RCTs	IV
4	Oxygen Therapy	JTFFP 2005 ²	RCT	IIb
5	Volume Replacement therapy	JTFFP 2005 ²	Controlled study	IIb
6	<p>H1-antihistamine 7) Sheikh, A et al. H1-antihistamines for the treatment of anaphylaxis with and without shock (2012). <i>The Cochrane Collaboration</i>. 2012(4).</p>	JTFFP 2005 ² ; Cochrane Review 2012 ⁷	Panel Consensus; Meta-analysis with no RCTs	IV
8	<p>H1+H2 antihistamine 8) Lin, RY et al. Improved outcomes in patients with acute allergic syndromes who are treated with combined H1 and H2 antagonists. <i>Ann Em Med</i> 2000; 36(5):462-468</p>	Lin RY et al. ⁸	RCT	IIb

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9	Corticosteroid use 9) Choo, KJL et al. Glucocorticoids for the treatment of anaphylaxis. <i>The Cochrane Collaboration</i> . 2012(3).	JTFPP 2005 ² ; Cochrane Review 2012 ⁹	Panel Consensus; Meta-analysis with no RCTs	IV
10	Beta-adrenergic inhaled agents	JTFPP 2005 ²	Panel Consensus	IV
11	Glucagon	JTFPP 2005 ²	non-experimental studies; Panel Consensus	III
12	Epinephrine IV	JTFPP 2005 ²	Panel Consensus	IV
13	Observation period (due to risk of biphasic reaction)	JTFPP 2005 ² ; NIAID/FAAN 2005 ¹	Panel Consensus	IV
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