

World Allergy Organization Subcutaneous Immunotherapy Systemic Reaction Grading System (see text)

Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
<p><i>Symptom(s)/ sign(s) of one organ system presentⁱ</i></p> <p align="center"><u>Cutaneous</u></p> <p align="center">Generalized pruritus, urticaria, flushing or sensation of heat or warmthⁱⁱ</p> <p align="center">or</p> <p align="center">Angioedema (not laryngeal, tongue or uvular)</p> <p align="center">or</p> <p align="center"><u>Upper respiratory</u></p> <p align="center">Rhinitis (e.g., sneezing, rhinorrhea, nasal pruritus and/or nasal congestion)</p> <p align="center">or</p> <p align="center">Throat-clearing (itchy throat)</p> <p align="center">or</p> <p align="center">Cough perceived to come from the upper airway, not the lung, larynx, or trachea</p> <p align="center">or</p> <p align="center"><u>Conjunctival</u></p> <p align="center">Conjunctival erythema, pruritus or tearing</p> <p align="center"><u>Other</u></p> <p align="center">Nausea, metallic taste, or headache</p>	<p><i>Symptom(s)/ sign(s) of more than one organ system present</i></p> <p align="center">or</p> <p align="center"><u>Lower respiratory</u></p> <p align="center">Asthma: cough, wheezing, shortness of breath (e.g., less than 40% PEF or FEV1 drop, responding to an inhaled bronchodilator)</p> <p align="center">or</p> <p align="center"><u>Gastrointestinal</u></p> <p align="center">Abdominal cramps, vomiting, or diarrhea</p> <p align="center">or</p> <p align="center"><u>Other</u></p> <p align="center">Uterine cramps</p>	<p align="center"><u>Lower respiratory</u></p> <p align="center">Asthma (e.g., 40% PEF or FEV1 drop, NOT responding to an inhaled bronchodilator)</p> <p align="center">or</p> <p align="center"><u>Upper respiratory</u></p> <p align="center">Laryngeal, uvula or tongue edema with or without stridor</p>	<p align="center"><u>Lower or Upper respiratory</u></p> <p align="center">Respiratory failure with or without loss of consciousness</p> <p align="center">or</p> <p align="center"><u>Cardiovascular</u></p> <p align="center">Hypotension with or without loss of consciousness</p>	<p>Death</p>

Patients may also have a feeling of impending doom, especially in grades 2, 3, or 4.

Note: children with anaphylaxis seldom convey a sense of impending doom and their behavior changes may be a sign of anaphylaxis, e.g., becoming very quiet or irritable and cranky.

<p>Scoring includes a suffix that denotes if and when epinephrine is or is not administered in relationship to symptom(s)/sign(s) of the SR: a, ≤ 5 minutes; b, >5 minutes to ≤10 minutes; c, >10 to ≤ 20 minutes; d, >20 minutes; z, epinephrine not administered.</p>
<p>The final grade of the reaction will not be determined until the event is over, regardless of the medication administered. The final report should include the first symptom(s)/sign(s) and the time of onset after the subcutaneous allergen immunotherapy injection ⁱⁱⁱ and a suffix reflecting if and when epinephrine was or was not administered, e.g., Grade 2a; rhinitis:10 minutes.</p>
<p style="text-align: center;">Final report: Grade a-d,or z _____ First symptom _____ Time of onset of first symptom _____</p>
<p>Comments^{iv}</p>

- i. Each Grade is based on organ system involved and severity. Organ systems are defined as: cutaneous, conjunctival, upper respiratory, lower respiratory, gastrointestinal, cardiovascular and other. A reaction from a single organ system such as cutaneous, conjunctival, or upper respiratory, but not asthma, gastrointestinal, or cardiovascular is classified as a Grade 1. Symptom(s)/sign(s) from more than one organ system or asthma, gastrointestinal, or cardiovascular are classified as Grades 2 or 3. Respiratory failure or hypotension, with or without loss of consciousness, defines Grade 4 and death Grade 5. The Grade is determined by the physician's clinical judgment.
- ii. This constellation of symptoms may rapidly progress to a more severe reaction.
- iii. Symptoms occurring within the first minutes after the injection may be a sign of severe anaphylaxis. Mild symptoms may progress rapidly to severe anaphylaxis and death.
- iv. If signs or symptoms are not included in the Table or the differentiation between an SR and vasovagal (vasodepressor) reaction, which may occur with any medical intervention, is difficult, please include comment, as appropriate.

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