

SUPPLEMENTARY MATERIAL

Table

Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Mild symptom/sign(s) only: Reactions can be further categorized as: 1t: transient (<20 mins) 1s: single organ system only, ≥20 mins 1m: 2+ organ systems, ≥20 mins	Any 1 (or more) of the following moderate symptom/sign(s):	Any 1 (or more) of the following symptom/signs:	Any 1 (or more) of the following symptom/signs:	Any 1 (or more) of the following symptom/signs:
Cutaneous (any one of): Limited (few) or localized hives/urticaria Skin flushing (few areas of faint erythema) or mild pruritus Swelling (e.g., lip edema) excluding localized symptoms at application site	Cutaneous (any one of): Systemic urticaria (e.g., numerous or widespread hives) Generalized (≥50% BSA) erythema Widespread pruritus with protracted scratching Significant angioedema (excluding lip swelling and laryngeal edema)	Lower respiratory: Bronchospasm (e.g., wheezing, shortness of breath) which responds to first line treatment Cough due to laryngeal or lower respiratory involvement	Respiratory: Severe bronchospasm (not improving with 2 doses of IM epinephrine ± other appropriate treatment) Stridor (with increased work of breathing)	Respiratory: Respiratory failure requiring positive pressure ventilation Respiratory arrest
Or Upper respiratory: Nasal symptoms (e.g., sneezing, rhinorrhea, itch, congestion) Throat-clearing (itchy throat) or throat tightness/discomfort Cough due to throat irritation or nasal symptoms		And/or Upper respiratory/laryngeal: Throat tightness with vocal hoarseness Stridor without increased work of breathing Persisting (≥20 mins) odynophagia (pain on swallowing)	And/or Cardiovascular: Hypotension with associated symptoms of end-organ dysfunction (e.g. hypotonia, dizzy, collapse, syncope) OR Decrease in systolic blood pressure (SysBP) ≥ 30% from baseline OR SysBP < 90 mmHg in adults	And/or Cardiovascular: Anaphylactic shock i.e., requirement for IV vasopressor infusion to maintain SysBP >90 mmHg or MAP >65 mmHg in adults and children >10 years (or age-appropriate SysBP in younger children) Cardiac arrest
Or Gastrointestinal: Nausea Mild abdominal pain (for example, without a change in activity level)	And/or: Gastrointestinal: Persisting (≥20 mins) and non-distractable abdominal pain and/or Vomiting (not due to gag or taste aversion) and/or diarrhea	And/or Gastrointestinal AND Cutaneous: Severe GI symptoms together with cutaneous features which meet WAO 2020 criteria for anaphylaxis (e.g., severe crampy abdominal pain, repetitive vomiting, especially after exposure to a non-ingested allergen)		
Or Other: Conjunctival reddening (not due to eye rubbing), pruritus, or tearing Metallic taste		And/or Uterine cramps ± uterine bleeding	And/or Neurological: Glasgow Coma Scale <13	

Table. WAO Grading system for systemic allergic reactions. Adapted from [24].