

# Brighton Collaboration Case Definition of Anaphylaxis for use in *SPSU* study

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## For All Levels of Diagnostic Certainty

Anaphylaxis is a clinical syndrome characterized by

- sudden onset AND
- rapid progression of signs and symptoms AND
- involving multiple ( $\geq 2$ ) organ systems, as follows:

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### Level 1 of diagnostic certainty

- $\geq 1$  major dermatological AND
- $\geq 1$  major cardiovascular AND/OR  $\geq 1$  major respiratory criterion

### Level 2 of diagnostic certainty

- $\geq 1$  major cardiovascular AND  $\geq 1$  major respiratory criterion

OR

- $\geq 1$  major cardiovascular OR respiratory criterion AND
- $\geq 1$  minor criterion involving  $\geq 1$  different system (*other than* cardiovascular or respiratory systems)

OR

- $\geq 1$  major dermatologic AND  $\geq 1$  minor cardiovascular AND/OR minor respiratory criterion

### Level 3 of diagnostic certainty

- $\geq 1$  minor cardiovascular OR respiratory criterion AND
- $\geq 1$  minor criterion from each of  $\geq 2$  different systems/categories

## Major and Minor Criteria used in the Case Definition of Anaphylaxis

### **MAJOR CRITERIA**

#### **1.1.1**

<u>Dermatologic or mucosal</u>	<ul style="list-style-type: none"> <li>• generalized urticaria (hives) or generalized erythema</li> <li>• angioedema*, localized or generalized</li> <li>• generalized pruritus with skin rash</li> </ul>
<u>cardiovascular</u>	<ul style="list-style-type: none"> <li>• hypotension, based on a measurement</li> <li>• clinical diagnosis of uncompensated shock, indicated by the combination of at least 3 of the following: <ul style="list-style-type: none"> <li>• tachycardia</li> <li>• capillary refill time &gt;3 sec</li> <li>• reduced central pulse volume</li> <li>• decreased level of consciousness or loss of consciousness</li> </ul> </li> </ul>
<u>Respiratory</u>	<ul style="list-style-type: none"> <li>• bilateral wheeze (bronchospasm)</li> <li>• stridor</li> <li>• obvious upper airway swelling (tongue, throat, uvula or larynx)</li> <li>• respiratory distress – 2 or more of the following: <ul style="list-style-type: none"> <li>• tachypnoea</li> <li>• increased use of accessory respiratory muscles (sternocleidomastoid, intercostal etc)</li> <li>• recession</li> <li>• cyanosis</li> <li>• grunting</li> </ul> </li> </ul>

#### **1.1.2**

\* not hereditary angioedema

### **MINOR CRITERIA**

<u>dermatologic or mucosal</u> <b>1.1.3</b>	<ul style="list-style-type: none"> <li>• generalized pruritus without skin rash</li> <li>• generalized prickle sensation</li> <li>• localized injection site urticaria</li> <li>• red and itchy eyes</li> </ul>
<u>cardiovascular</u> <b>1.1.4</b>	<ul style="list-style-type: none"> <li>• reduced peripheral circulation as indicated by the combination of at least 2 of: <ul style="list-style-type: none"> <li>• tachycardia and</li> <li>• a capillary refill time of &gt;3 seconds without hypotension</li> <li>• a decreased level of consciousness</li> </ul> </li> </ul>
<u>respiratory</u> <b>1.1.5</b>	<ul style="list-style-type: none"> <li>• persistent dry cough</li> <li>• hoarse voice</li> <li>• difficulty breathing without wheeze or stridor</li> <li>• sensation of throat closure</li> <li>• sneezing, rhinorrhea</li> </ul>
<u>gastrointestinal</u>	<ul style="list-style-type: none"> <li>• diarrhoea</li> <li>• abdominal pain</li> <li>• nausea</li> <li>• vomiting</li> </ul>
<u>laboratory</u>	<ul style="list-style-type: none"> <li>• Mast Cell Tryptase elevation &gt; upper normal limit</li> </ul>