

## Scenario 1: Anaphylaxis

### Facilitator will READ OUT LOUD to Paramedic

#### CASE #1 INFORMATION

You are a paramedic responding to the following dispatch call:

“Priority One. 36 North Street, 1-year old with difficulty breathing. The patient is conscious at this time.”

The setting is just outside an apartment building. Transport time to the hospital is 30 minutes.

The patient is a 1-yo whose aunt called 911. The child has been visiting relatives, and his parents are unavailable. The relative reports that the child has had difficulty breathing for the past hour following a bee sting.

#### ACTOR'S SCRIPT

##### Case #1: Anaphylaxis

The purpose of the actor's script is to provide consistency to the scenario, and thereby control as many variables as possible during the simulation. Try to answer all questions in the same manner, maintain the same level of apprehension when playing the part of the relative, and provide the same degree of interaction with all participants. Having prepared responses to questions that the aunt would be able to answer will help reduce variability in the scenario.

##### Role-playing the patient's relative

The relative (uncle or aunt) will provide any history that is requested with a reasonable degree of medical sophistication. She has been watching the child for the past 8 hours. She volunteers that the child has had increasing difficulty with breathing for the past hour following a bee sting. The child will deteriorate rapidly, and the paramedic will not have time to ask many questions. Three minutes into the scenario, the relative becomes distraught and cannot answer any further questions.

##### Historical questions:

If asked the appropriate questions, only then does the relative respond with the following answers:

*Q. When did the wheezing start?*

One hour ago.

*Q. When did the rash start?*

One hour ago.

*Q. Does the child have any past history of asthma or heart disease?*

None.

*Q. Any chronic illnesses?*

None that she knows of.

*Q. Does the child take any medications?*

No

*Q. Any past history of wheezing?*

He has had some wheezing with colds in the past.

*Q. Any prior hospitalizations?*

No.

*Q. Did the child choke on any object?*

No.

*Q. How much does the child weigh?*

She does not know his weight.

*Q. Did the child's mother give you permission to consent for medical treatment?*

Yes, but she did not provide a written note.

Answers to all other questions are negative

**Test Case #1: 1 Y.O. Anaphylaxis**

Learners' action(s)	Time (minutes)	Patient's response(s)
<p>Recognize respiratory distress</p> <p>Obtain history, inspect skin</p> <p>Recognize anaphylaxis</p>	<p>0-3 min</p>	<ul style="list-style-type: none"> <li>• <b>Initial Vital signs</b> <ul style="list-style-type: none"> <li>• Rhythm: Sinus tachycardia</li> <li>• HR: 140</li> <li>• BP: 76/40</li> <li>• SpO<sub>2</sub>: 91% on RA            93% over 40 sec (if O<sub>2</sub> applied)            95% over 40sec (if albuterol or racemic epi neb applied)</li> </ul> </li> <li>• RR: 45</li> <li>• Temp: 37°C</li> <li>• Cap refill: 3 sec</li> </ul> <ul style="list-style-type: none"> <li>• <b>Initial Manikin Settings</b> <ul style="list-style-type: none"> <li>• Heart: normal, 100%</li> <li>• Lungs: wheeze, 100% (bilateral)</li> <li>• Resistance: 50% (bilateral)</li> <li>• Cry: weak</li> <li>• Pattern: seesaw</li> <li>• Resistance: 50%</li> <li>• Chest rise: deep</li> </ul> </li> </ul> <p>FACILITATOR informs the paramedic at the start of the scenario that “the child is breathing rapidly and audibly wheezing”</p> <p>If skin is inspected or asked, “Pt has hives over chest, trunk, and extremities.”</p> <p>Uncle/Aunt (FACILITATOR) will answer all questions. DO NOT offer information if paramedic does not ask for it.</p> <p>FACILITATOR provides information about physical exam, but only if requested.</p>

Learners' action(s)	Time (minutes)	Patient's response(s)
<p>Anaphylaxis therapy provided</p> <p>IM epinephrine</p> <p>Supplemental O2 and/or albuterol/and or racemic epinephrine</p> <p>IV fluids</p>	<p>3-5 min</p>	<p><b>At t = 3 minutes,</b>  FACILITATOR informs paramedics that <i>“the infant looks more agitated and is in more respiratory distress”</i></p> <p>Uncle/Aunt is distraught and will not provide any additional information.</p> <ul style="list-style-type: none"> <li>• <b><u>Vital signs</u></b> <ul style="list-style-type: none"> <li>• HR: Increases +20 with IM epi</li> <li>• SpO<sub>2</sub>: Increases +2-3 with IM epi or albuterol</li> <li>• RR: Improves/decreases by 10 with IM epi or albuterol over 40 sec</li> <li>• BP: Improves to 88/50 with IM epi, improves additional 10/4 if IV bolus given</li> </ul> </li> </ul>
<p>Additional anaphylaxis therapies may be provided</p> <p>May contact online medical control for additional therapies</p>		<ul style="list-style-type: none"> <li>• <b><u>Vital signs (if treatment given)</u></b> <ul style="list-style-type: none"> <li>• HR: 100</li> <li>• SpO<sub>2</sub>: 97%</li> <li>• RR: 25</li> <li>• BP: 100/55</li> </ul> </li> </ul>
<p>___ min ___ sec Total scenario time</p>	<p><b>TIME LIMIT</b>  <b>5-10</b>  <b>minutes</b></p>	<p>Terminate scenario after X minutes OR after final phase completed (whichever comes first).</p>
		<p><b>END SIMULATION</b></p>