

**Station title:**

**Station duration:**

8 mins

**Station number:**

## **Student Instructions**

**Station No**

**Final MB**

### **Background information to station:**

You are a Foundation Doctor working in the Emergency department.

This 26 year old woman is short of breath.

### **Specific student instructions:**

1. Please examine the patient using the ABCDE system.
2. Initiate any emergency treatment required when appropriate.
3. At the '2 minutes to go' bell, or sooner, the examiner will ask you 2 questions.

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## **Examiner Instructions**

### **Station No**

### **Final MB**

**Station author:** Dr Laura Lennox

**Assessment outcome:**

This station assesses the student's ability to:

1. Perform a comprehensive ABCDE assessment.
2. Correctly answer the following questions based on clinical findings and correct diagnosis of asthma attack:
  - (a) Interpret the results of the Arterial Blood Gas provided.
  - (b) Name 2 indications that necessitate a referral to ICU for an exacerbation of asthma?

**Background information to station:**

Students are asked to perform the role of a Foundation Doctor in the Emergency Department. They have been asked to review a 26 year old woman who presents with dyspnoea.

The student should move through the ABCDE approach. When they feel the pulse, tell them that the pulse is 100 bpm, regular. If they ask for the BP, tell them it is 106/58 mmHg. RR is 24, They are clammy to touch and capillary refill is 2 seconds. When they listen to the lungs, tell them that there is an audible wheeze throughout.

**Potential areas of serious concern:**

- Failing to recognise the severity of the episode of shortness of breath
- Proceeding to examine without consent

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DETAIL / question	MARK	WEIGHTING
1.Overall introduction including identification of self and patient (name & role, purpose of encounter, confirms patient's agreement)	G A P	2 1 0
2.Rapport & professional manner (shows interest, respect, concern, appropriate body language, closure)	G A P	2 1 0
3.Attention to infection control throughout	G P	1 0
4.End of the bed inspection (increased respiratory rate, wheeze, patient's position (ie. tripod)/ inhalers/oxygen) <b>G:2; A:1; P:0</b>	G A P	2 1 0
5. <b>Airway assessment:</b> Is the airway patent? Audible stridor? Speaking in full sentences? <b>G: good; P: poor</b>	G P	2 0
6. Ask for oxygen to be applied and states '15L oxygen via non-breather mask' <b>G: good; P: poor</b>	G P	1 0
7. <b>Breathing: Inspection</b> (RR, Increased work of breathing, SpO <sub>2</sub> , how much oxygen) <b>G: 2; A:1; P: no observation</b>	G A P	2 1 0
8. <b>Breathing Examination:</b> Central trachea, chest expansion symmetrical, auscultate in at least 4 areas <b>G:2; A:1; P:0</b>	G A P	4 2 0
9.Request ABG; Peak flow; Chest X-Ray, ECG <b>G: 3; A:1-2; P:0</b>	G A P	2 1 0
10.Requests salbutamol or ipratropium nebulisers and steroids (hydrocortisone or prednisolone) Consider IV MgSO <sub>4</sub> <b>G:2; A:1; P:0</b>	G A P	2 1 0
14. <b>Circulation:</b> Warm/clammy, central cap refill checked, Pulse – volume, rate and rhythm; Mucus membranes – moist/dry, JVP, Brief auscultation of heart sounds <b>G: 3; A:2; P:0-1</b>	G A P	4 2 0
16. Ask for IV access - large bore cannulas and bloods (FBP, U&E, CRP) G: both; A:1; P:0	G A P	2 1 0
18. <b>Disability:</b> AVPU, Blood glucose Pupils, – equal and reactive Medication reviewed <b>G: 3; A:2; P:0-1</b>	G A P	2 1 0
19 <b>Exposure</b> 'I would like to check for any rashes/ temperature/palpate your abdomen' <b>G: any</b>	G P	1 0
<b>20. Reassess</b>	G P	1 0
21. <b>Examiner to ask: Interpret the following arterial blood gas.</b> Normal pH, hypoxia and normal CO <sub>2</sub> ; Impression: hypoxic respiratory failure <b>G: 3; A: 2; P:0-1 or incorrect</b>	G A P	4 2 0
22. <b>Examiner to ask: What are the indications for referral to ICU?</b> PEFR< 33%, SpO <sub>2</sub> <92%, silent chest/cyanosis, poor respiratory effort, confusion, PaCO <sub>2</sub> normal or raised, PaO <sub>2</sub> <8kPa <b>G: 2; A:1; P:0</b>	G A P	2 1 0
SP Rating: SA: Strongly agree; A: Agree; JA: Just Agree; N: Neutral; D: Disagree	SA A JA N D	4 3 2 1 0
Global mark: E: Excellent; V: Very good; P: Pass; B: Borderline; F: Fail	E V P B F	5 4 3 2 1

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## Simulated Patient Instructions

Station No

Final MB

**This station assesses the student's ability to perform a ABCDE assessment and initiate treatment.**

### **Background information to station:**

Students are asked to perform the role of a Foundation Doctor in the Emergency Department. They are asked to review a 26 year old woman presenting with shortness of breath.

### **How the role should be portrayed:**

- Name: Jenny Carr
- DoB: 12/04/1996
- The examination will involve:
  - Sitting forward in the bed and appear short of breath. **Act short of breath by only being able to say two-three words without taking a breath.**
  - They will listen to your breathing using a stethoscope at your back. When listening the examiner will tell the student that you are wheezy
  - They will listen to your heart using a stethoscope
  - They will check your pulse, the position of your windpipe.
  - They will ask to examine for rashes, palpate your abdomen and temperature- they will be moved on.

**Clothes/props:** Loose top that can be pulled up at the back.

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**First sentence (after introductions) if student starts with an open question:**

I have been .... feeling short.... of breath ... since this...morning... it is ... getting..... worse....

<b>Potential question</b>	<b>Response</b>
Do you use any inhalers?/Do you take any medication?	Yes, blue one when I need it and a brown one I use every day
Are you allergic to any medication?	No
Have you ever been to ICU/admitted to hospital with an asthma attack?	Never been to ICU. Admitted x3 times in past year.

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## **Site Co-ordinator Instructions**

**Station No**

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### **Equipment check list:**

- Bed
- Stethoscope
- Inhalers (B2 agonist and steroid)
- Oxygen mask (non-rebreather)
- Arterial Blood Gas result laminated
- Simulated participant - female

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## **Arterial Blood Gas (on 15L O2 Non-rebreather)**

**Name: Jenny Carr**

**DoB: 12/04/1996**

**Date: TODAY**

<b>pH</b>	<b>7.36</b>	<b>(7.35 - 7.45)</b>
<b>pO2</b>	<b>7.2kPa</b>	<b>(10 - 13)</b>
<b>PCO2</b>	<b>5.9kPa</b>	<b>(4.5 – 6.0)</b>
<b>HCO3</b>	<b>20mEq/L</b>	<b>(22 - 26)</b>
<b>BE</b>	<b>- 3.5</b>	<b>(- 2 to + 2)</b>
<b>Lactate</b>	<b>1.5mmol/L</b>	<b>(&lt;2)</b>
<b>Glucose</b>	<b>10mmol/L</b>	<b>(6-12)</b>