

## **Results (2015.2)**

### **Candidate's information**

A junior registrar has come to you with a venous blood gas for interpretation.

His patient is a 70 year old man with a history of type II diabetes who came in feeling unwell. He is currently being fed by nasogastric tube after radiotherapy for an oesophageal neoplasm.

You will be required to interpret the blood gas with the medical student, describe your differential diagnosis and go through management priorities with them.

*You have 7 minutes to complete the task.*

#### **Domains assessed;**

Medical expertise

Communication

Scholarship and teaching

Health Advocacy

## Actor information

You are a Junior Registrar (first year of training) and have just started seeing the patient described above. You have not taken much of a history, except to note that the patient is awake but seems a bit confused. You think the vital signs are normal.

The Nurse has just brought the venous gas to you to sign, and you think there are some abnormalities. You are not confident with your ability to interpret blood gases.

Some questions to ask (if not addresses by the candidate)

“What would be causing the hypernatraemia?”

“How do you correct Na for high glucose?”

“How do I calculate the osmolality, and what does it mean anyway? Is it high?”

VBG

pH 7.38 (7.35 - 7.45)

pCO<sub>2</sub> 49 (41 - 51)

pO<sub>2</sub> 31 (20 - 40)

Bicarb 28 (21 - 30)

Na 151 (135 - 145)

K 5.1 (3.5 - 5.0)

Cl 110 (95 - 107)

Lactate 1.9 (0.5 - 2.0)

Glucose 49.6 (3.0 - 10.0)



Domain	Criteria for High Rating
<b>Medical Expertise</b>	<p>Correct VBG interpretation            Non ketotic hyperosmolar state            Identification of severely raised glucose and Na</p> <p>Correction of Na to 164 for glucose            Calculation of osmolality            Identify dehydration and ng feeds as likely source of hypernatraemia</p> <p>Management plan            Fluid and choice            Insulin and rate and when to commence            Consultation            Disposition to HDU</p>
<b>Communication</b>	<p>Verbal clarity, conciseness, specificity – ability for trainee to follow directions</p> <p>Explanation of findings to trainee, further investigation and management</p> <p>Allows trainee to ask appropriate questions</p>
<b>Scholarship and teaching</b>	<p>Teaches trainee appropriately</p> <p>Checks trainees prior knowledge</p> <p>Checks understanding of information</p>
<b>Health Advocacy</b>	<p>Ensures patient safety</p> <p>Ensures appropriate disposition</p>

## Examiner's assessment

Candidate Name:

### A. Component Assessment

Select ONE option that best represents the candidate's performance in this OSCE. Use the 9-point graded scale, where 1 is poorest and 9 is best. TICK ONE CELL for each row below.

	1	2	3	4	5	6	7	8	9
Medical Expertise									
Communication									
Scholarship and teaching									
Health Advocacy									

B. Station Difficulty (please circle): Low Moderate High

### C. Examiner Notes on Candidate Performance

Positives

Areas for Improvement

Suggestions

### D. Global Rating for Standard Setting (please circle)

Clear Fail

Marginal Fail

Borderline

Marginal Pass

Clear Pas