

OSCE

Candidate information

An RMO has been managing a 23 year old female who suffered a seizure at a nightclub. They are struggling with her VBG results.

Please discuss the results of the VBG with the RMO with a focus on causes and management.

Domain	%
Medical expertise	40
Prioritisation and decision making	20
Communication	20
Teamwork and collaboration	
Leadership and management	
Health advocacy	
Scholarship and teaching	20
Professionalism	

Ecstasy overdose

Actor (RMO) information

You have been managing a drowsy 22 year old female in resusc. She suffered a seizure at a nightclub with friends, and is now post-ictal. There is no history of trauma.

You are confused by her VBG and have asked your consultant to review it with you and advise on causes of her seizure. You also need help with management of this patient's abnormal sodium.

Prompts:

- What could have caused her low sodium? (SIADH, ecstasy etc)
- How should we manage her?
- What are the complications of this overdose?
- Does she need ongoing seizure prophylaxis lifelong?
- Should her licence be revoked?

Marking:

- What could have caused her low sodium? (SIADH, **ecstasy** etc)
- How should we manage her?
 - In resusc, monitoring, watch for hyperthermia/HTN/ACS/dissection/rhabdo etc
 - HS 3% 3 ml/kg until Na >120 and seizures stop
 - Bloods/urine for investigation of hyponatremia as normal
- What are the complications of this overdose?
 - As above
- Does she need ongoing seizure prophylaxis lifelong?
 - No
- Should her licence be revoked?
 - No

	Mark
Interprets ABG clearly – organised approach	2
Recognises possibility of ecstasy overdose as cause	2
Management of hyponatremia in this patient	2
Explains complications of this overdose	1
Specifies no need for ongoing seizure prophylaxis	1
Does not need licence revoked	1
Manner and style of teaching	1

VBG

pH 7.12

CO₂ 48

O₂ 23

Na 116

K 5.4

Cl 98

HCO₃ 22

Lac 6.4

BGL 4.5