

Management and Prescribing STUDENT SHEET

You are the on-call Cardiology Registrar, called to the Respiratory ward to see Mike Chambers, 40, who is having Palpitations.

The examiner will tell you relevant parts of the history to assist your decision making.

This station will last 10 minutes. During the first 5 minutes you will need to:

- State a differential diagnosis
- Request the appropriate investigations that you think this patient needs
- Interpret the test results
- Re-evaluate your differential diagnosis and formulate a management plan

The second 5 minutes will comprise of you writing an appropriate prescription for this patient.

Management and Prescribing EXAMINER SHEET

DIAGNOSIS: Torsades de Pointes

Please share the following information with the student. "You are seeing Mike Chambers on the Respiratory ward, for his Palpitations after being treated with Erythromycin for Pneumonia."

Q: Please state the investigations you would like to request for this patient.

U&Es, Calcium + Magnesium, Capillary Glucose, ECG

Q1: Please interpret the investigation results on the last page and tell me their significance.

Low Calcium, Magnesium, Potassium

ECG: Polymorphic Ventricular Tachycardia

Q2: In light of this information, please state your top differential diagnosis and preferred IMMEDIATE management plan.

- Diagnosis: Torsades de Pointes
- IV Magnesium Sulphate. Stop Erythromycin, Correct Electrolyte abnormalities

Q3: The diagnosis is Torsades de Pointes. Please prescribe an appropriate drug to manage him. The patient has no allergies.

Must prescribe IV Magnesium Sulphate 2g over 10-15 minutes. Mark Scheme below for further details.

		Marks		
Initial Diagnosis	Student states a sensible and likely diagnosis which they can justify from the initial information provided. (1)			
Requesting Investigations	Student requests a range of investigations in a structured order such as Bedside and Bloods (1) Requested investigations must be backed up by sound and specific rationale and not generic comments. (1) Investigations must be requested to support the theorised differential and rule out other differentials. (1)			
Interpretation	Student interprets more than half of the investigation results correctly and in a systematic and structured order (1) Student interprets all investigations correctly in the context of the differential diagnosis, in a systematic and structured order (1)			
Diagnosis and Management Plan	Correct diagnosis made (1) Appropriate management plan outlined in a structured format such as conservative, medical, surgical (1)			
Prescription	Patient details and allergy status correctly recorded (1) Medication prescribed in the correct location (1) Medication name in all capitals and correctly spelt with correct dosage and route (1) Date and prescriber details recorded correctly (1)			

Global Rating: Fail Borderline Good Very Good Excellent

Management and Prescribing INTERPRETATION

Capillary Glucose	5.2mmol/L
Serum Calcium (2.2-2.6 mmol/L)	1.8
Serum Magnesium (0.7-1 mmol/L)	0.62
Serum Sodium (135-145 mmol/L)	139
Serum Potassium (3.5-5.5 mmol/L)	3.2
Serum Urea (2-7 mmol/L)	4.6
Serum Creatinine (70-120 μ mol/L)	92

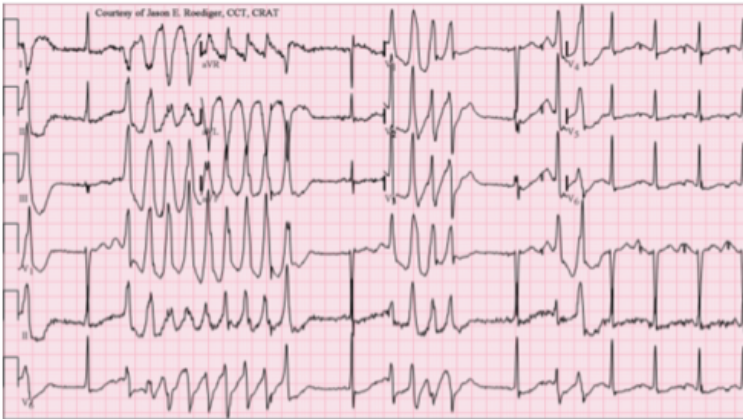


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