

Case 1

Question 1 (written by Joe Edwards)

A patient is diagnosed with an aneurysm using a CT scan and angiography.

FIGURE 2 shows the morphology of the aneurysm.

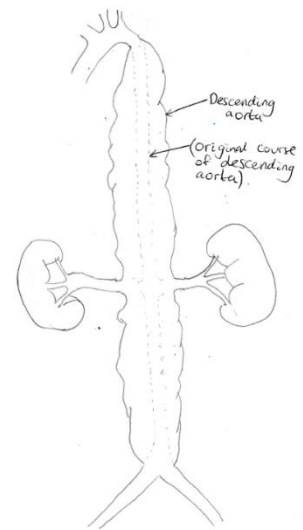


FIGURE 2

a) State the type of aortic aneurysm shown.

[1]

b) Describe the pathogenic mechanism by which this type of aneurysm develops.

[2]

While awaiting surgical repair, the patient develops an acute kidney injury.

c) Describe how acute injury could result from the type of aneurysm shown.

[2]

Medical Education Society: A100 Year 1 Practice SAP Questions

Question 2 (written by Joe Edwards)

A medical student is asked to practice measure a patient's blood pressure and pulses while on a hospital placement.

When palpating the patient's pulses, the student notices that the femoral pulse can be felt slightly after the radial pulse.

- a) State the name of this sign and briefly describe its significance. [3]

The medical student documents her findings in relation to blood pressure only at the end of the examination, as shown in **FIGURE 3**.

Medical Records Sheet

MedEd Hospital

Patient Information

Name: Joseph Bloggs

Consultant: Dr Smith

Date of birth: 01/12/1993

Patient number: 20001975

Date & Time	Clinical notes
10/10/21 18 ³⁰	Blood pressure and radial pulse
	Radial pulse 49bpm, regular
	BP 110/81 mmHg : R arm, seated

FIGURE 3

- b) Identify what the student has missed out when recording the patient's blood pressure. [1]

Question 3 (written by Joe Edwards)

Health inequalities can be investigated through the use of demographic information. **FIGURE 4** shows the risk of mental illness for different levels of income in the UK. The 1st quartile is the lowest income quartile, and the 4th quartile is the highest income quartile.

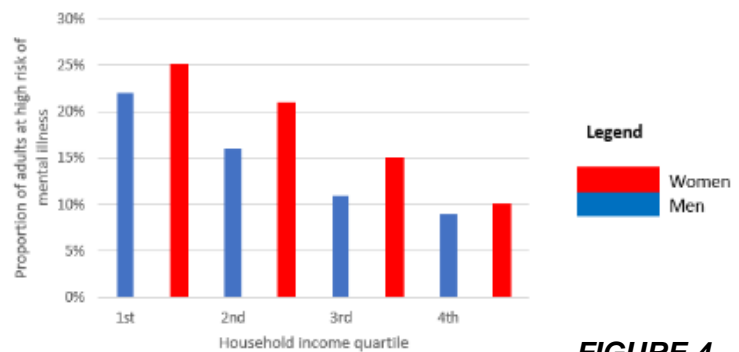


FIGURE 4

- a) Describe a major source of demographic information in the UK that the graph shown in **FIGURE 4** might be based upon. [1]

- b) Using the behavioural explanation for health inequalities, suggest a reason for the trends between income levels shown on the graph in **FIGURE 4**. [2]

- c) Using the psychological explanation for health inequalities, suggest a reason for the trends between men and women shown on the graph in **FIGURE 4**. [2]
