

# Case 3

## Question 1 (written by Joe Edwards)

A patient is admitted to an acute medical unit with acute kidney injury. The patient is 52 years old and has a past medical history of heart failure for which he takes furosemide, lisinopril and propranolol. He has a learning disability resulting in neurological impairment and is reliant on a carer for everyday activities.

- a) State the most common cause of acute kidney injury. [1]

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- b) Identify two risk factors that this patient has for acute kidney injury and explain how these increase the patient's risk of acute kidney injury. [3]

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A doctor reviews the patient's notes and informs the patient that the best course of treatment is to stop his furosemide temporarily and prescribes some IV fluids. The patient agrees as he trusts the doctor.

- c) State the type of doctor-patient relationship described here. [1]

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- d) Describe the benefits of involving this patient more in the decision making process around his treatment. [2]

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Year 1 Leads 01/2022

## Medical Education Society: A100 Year 1 Practice SAP Questions

### Question 2 (written by Joe Edwards)

A nephrologist believes that AKI reduces the chance of her patients developing kidney stones. She wishes to investigate this hypothesis.

- a) Describe why a randomised control trial may not be appropriate in this situation. [1]

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The nephrologist has very little funding but does have informed consent from her patients to access and use their medical notes for the purposes of investigating her hypothesis.

- b) Suggest what type of trial might be used and explain why this type of trial is appropriate in this situation. [2]

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The nephrologist does not initially gain significant results at the significance level she selects. She therefore decides to exclude the results of patients who she remembers as only having a mild AKI because she thinks this will give her significant results.

- c) State the type of data misinterpretation exhibited here. [1]

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