

## Case Studies in Renal Functions

### Instructions

Here's your chance to exercise your knowledge! Imagine you are an intern doctor doing a rotation in the emergency ward of a hospital. What would you say is the cause of each patient's condition, based on the information provided? Use the *Inquiry Into Life* textbook and the Internet to research your answers.

### Case 1

Young adolescent boy dressed in soccer uniform. Complaining of pain in lower back. When examined he has a large bruise in the painful region of his back. His urine sample is tinged red. He has no fever, no other pain, and is otherwise quite healthy and normal. (3 marks)

### Case 2

Older female patient dressed in nightclothes. Urine sample indicates abnormal levels of nutrients, salts, and urea. Patient is lethargic (seems tired and has difficulty moving) and complains of feeling unwell. Blood work indicates elevated levels of white blood cells. (5 marks)

### Case 3

Middle aged overweight man. Complains of being thirsty and urinating frequently. Patient complains of being extremely weak and tired. Blood work shows elevated levels of glucose. Urine contains glucose and is very dilute. (5 marks)

### Case 4

Patient has extremely low blood pressure caused by congestive heart failure; unable to provide a urine sample. Patient reports that they have not urinated for two days. Patient is extremely weak and feels terrible. Blood work shows elevated levels of urea and imbalance of electrolytes (ions in blood). (4 marks)

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