

**YEAR: 11**

**SUBJECT: Human Biology Unit 1 and 2**

**ASSESSMENT: Kidney Health and Dialysis Extended Response**

**MARKS: 70**

**WEIGHTING: 3%**

***AIM OF THIS ASSESSMENT:***

The aim of this assessment is to aid your understanding of the urinary system in terms of how lifestyle choices can compromise body functioning in the short-term and in the future.

***BACKGROUND:***

Kidneys are complex organs that are subject to extreme life changing medical therapies when things go wrong. In Australia, approximately 275 people per day are diagnosed with diabetes. Diabetes can have a detrimental affect on kidney health.

***OBJECTIVES:***

By completing this assessment, you should understand:

1. The function of the kidney and associated structures
2. Lifestyle choices that compromise health
3. How to use scientific terminology and appropriate abstract concepts in discussions

***YOUR TASK:***

Imagine you are Dr Renal and you have just diagnosed your diabetic patient, Fred with kidney failure. You have just informed Fred that he will need to undergo dialysis. Fred wants you to explain to him what life will be like for him in the future

Fred is confused and has many questions, including:

1. How does the kidney function?
2. What conditions can lead to kidney failure?
3. Who is at risk?
4. What types of diabetes are there?
5. What are the current statistics of Australians with diabetes?
6. What are the current treatments for individuals with diabetes?
7. What is dialysis?
8. How will dialysis affect your patient at work, travelling and driving?
9. What support is available?
10. How could Fred adjust his lifestyle to accommodate this?

* Your response must be completed as a report

**ASSESSMENT GUIDELINES:**

1. Report is presented digitally.
2. Must be computer typed in a legible and professional font style and size.
3. Use correct spelling, grammar and punctuation.
4. Use 3rd person point of view.
5. Report must follow a logical format.

HUMAN BIOLOGY YEAR 11 UNIT 1 AND 2 NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ASSESSMENT: OPEN INVESTIGATION DUE DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**MARKING RUBRIC**

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| --- | --- | --- | --- | --- | --- |
| ***MARKING KEY:*** | VERY HIGH [5 marks] | HIGH  [4 marks] | SATISFACTORY  [3 marks] | LOW  [2 marks] | VERY LOW / NOT DISPLAYED  [1/0 mark] |
| ***Presentation and communication:***  Project presented as per guidelines  All required information included  Project presented with thought and care  Use of ICT and diagrams to aid in presentation |  |  |  |  |  |
| ***Information and understanding:***  Accurate and relevant scientific information  Project presented in students own words  Understanding of scientific content presented  Clarity of information  Aimed at the correct target audience |  |  |  |  |  |
| ***Critical thinking:***  Application of knowledge to a new circumstance  Ability to problem solve using previous knowledge and understanding |  |  |  |  |  |
| ***Data analysis:***  Gathering, analysing and evaluating data from a variety of reliable sources   * ***Bibliography:***   Resources fully referenced  Variety of resources used |  |  |  |  |  |