Practical assignment health effects - Solutions

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Answers

Assignment 1 - SF-36 - tab

- How do you feel about this result? Did you expect to score higher or lower? and why? **Answer:** own interpretation
- Given these results, can you express your quality of life in a single numeric value?

 Answer: No, because the results are provided for each domain separately. To translate these results to a single numeric value (a utility), a tariff should be used.

Assignment 2 - QALY calculation

Calculate the numbers of QALY gained by the person
 Answer: The answer is 15 QALYs. The calculation behind this answer is 10 * 0.9 + 5 * 0.6 + 10 * 0.3. the graph below shows the correct answer as well.

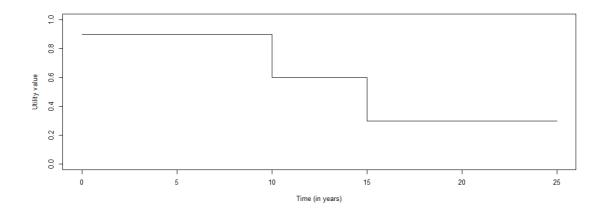


Figure 1: Utility value of the person over time

Assignment 3 - QALYs comparison

Which intervention provides the most QALYs?
 Answer: None

- Based on the total number of QALYs gained, which intervention would you prefer?

 Answer: Based on the total number of QALY gained by each intervention, you should not have a preference because they provide the same number of QALYs (7 QALYs).
- What if the quality of life with intervention A was 0.8, which one would you then prefer?

 Answer: If the quality of life with intervention A was increased to 0.8, then A would provide more QALYs, hence you should prefer it over B, when considering the total number of QALYs.

Assignments 4, 6, and 7

Answers: Assignments 4, 6, and 7 concern all your own preference. There are no right or wrong answers.

Assignment 5

Answers:

- EQ-5D-description first health state : 12423; utility value = 0.512
- EQ-5D-description second health state : 25431; utility value = 0.466
- EQ-5D-description third health state : 11122; utility value = 0.817
- What does a EQ-5D score of 55555 mean?

Answer: This is the worst imaginable health state according to the EQ-5D. It has a utility value below 0, which can be considered as a health state worst than "being dead".