

Marks

Question 18 (4 marks)

Investigators gathered data on a group of 100 smokers for a period of 10 years. During this time 12 people in the group developed lung cancer, two died in traffic accidents, and three died of heart attacks. The investigators used this data to state that smoking caused lung cancer.

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Describe how this investigation could be improved.

This investigation could be improved by:

- Investigating a larger group of people, including non-smokers.
- Gathering data for longer than 10 years
- Recording other information about the people being investigated. Such as age, weight, diet, income, sex & cigarettes smoked per day.
- Carry out other tests that could be used to link smoking to lung cancer. For example exposing lab rats to chemicals found in cigarettes and observing mutations/cancer in the lab rats.