GDB

BIO-401 Biostatistics



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Question: Which type of error is more serous and why?

Sampling error:

Or

Non sampling error

Solution:

Sampling error occurs when a sample is taken from a population, and the data collected from the sample does not accurately represent the entire population's characteristics. It is a type of error that arises due to the chance variability of the

sample. Non-sampling error, on the other hand, arises due to factors other than chance, such as poor questionnaire design, data entry errors, or bias in the selection of the sample.

- Non-sampling errors are more serious than sampling errors because a sampling error can be minimized by taking a larger sample but it is difficult to minimize non-sampling error, even by taking a large sample.
- One of the major reason that make it more serous when researcher record the incorrect response or data for example in population census if enumerator recorded the fake or incorrect data it will be a big mistake.
- Non sampling errors include sampling bias that some members of target population are not included this is a serous error.
- Non sampling error may be in the form of non response of interviewers that results in serous error that sample observation will be not true representative.
- Sampling errors relates to the sampling size, sampling design, variability in population. As these factors creates the sampling error so these factors are manageable like we can increase the population size to reduce the error.

So we can say that non sampling errors are more serous then sampling errors because they cant be managed easily as compared to the sampling error.

Regards:

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