

Assignment – Postgraduate – Estimation & Hypothesis Testing

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Estimation

1. A researcher collected data on diastolic blood pressure (DBP) from a sample of 60 patients, he found that the mean DBP was 80mmHg with standard deviation of 15mmHg. Estimate with 90%, 95% and 99% confidence the population mean DBP.
2. In a study on obesity among 128 adolescence in Kelantan, 25% of them were found to be obese. Construct 90%, 95% and 99% confidence interval for the percentage of obesity.

Hypothesis testing

1. A researcher is going to conduct a study to compare mean fasting blood sugar (FBS) (in mmol/L) between a group of lecturers and a group of medical students. If the researcher is not willing to make assumption whether any of the group has higher or lower mean FBS, state:
 - a) Research hypothesis.
 - b) Statistical hypothesis.
2. A researcher is going to conduct a study to compare proportion of obesity between a group of lecturers and a group of medical students. If the researcher is not willing to make assumption whether any of the group has higher or lower proportion of obesity, state:
 - a) Research hypothesis.
 - b) Statistical hypothesis.

Please submit this assignment by one month to my email address as written above.