CONFIDENCE INTERVAL STUDY FOR BINOMIAL PROPORTION

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Abstract
This Final Project to get the formula size and power of a hypothesis test and confidence interval formula of a Binomial proportion test distribution. In this project, there are several steps that must be done in determining the size and power; confidence intervals from a test of proportion with the amount of different samples. Formula confidence interval found using Clopper-Pearson confidence intervals, so that the confidence values obtained upper and lower limits.

Confidence interval of the sample proportion test was used to see whether the estimated proportion of the sample equal to the proportion of the population. If the value of the estimated proportion of the population is in the confidence interval it can be taken a decision that the value of the sample proportion equal to the proportion of the population.

In the case of sampled data the number of people infected with HIV / AIDS in every province in Indonesia, with a significant level $\alpha = 5\%$ the spread of viral infections of HIV / AIDS.

Keywords : size and power, confidence interval, Binomial proportion.