HYPOTHESIS

Micronucleus counting is a useful indicator for detection of oral cancer

Cancer cells stained with Acridine Orange/ MGP (methyl green pyronine) will be a useful indicator for early detection of oral cancer.

Usefulness of Micronucleus counting and staining of cancer cells with acridine orange/MGP will be compared with the standard biopsy and histo-pathological techniques.

STATISTICAL ANALYSIS

Estimation of sample size will be done on the basis of sensitivity of oral brush cytology using the formula

\[ n = \frac{Z^2 \alpha^2 S_n (1 - S_n) e^2}{p} \]

Where \( S_n = 0.92 \), the sensitivity of oral brush cytology

\( p = 0.05 \), prevalence of oral cancer

level of significance \( \alpha = 5\% \)

allowable error \( e = 0.35 \) for detecting results with 80% power of study

data loss = 10%

then the sample rise comes out to be \( n = 60 \)