

## CHAPTER IV

### DATA ANALYSIS

Data from this study were analyzed by a multiple logistic regression model in the SPSS computer package and Epi Info version 5.0. For univariate analysis, crude odds ratio (OR) and 95% confidence interval of OR were used to assess the risk of hand-rolled tobacco, other cigarettes, alcohol consumption, socioeconomic and dietary factors on laryngeal carcinoma. Chi-square for trends was used to evaluate association between factors on ordinal scale and laryngeal carcinoma. Unconditional logistic regression was used to assess the risk of hand-rolled tobacco adjusted for selected factors and the synergistic effect of smoking status and alcohol consumption on laryngeal carcinoma.