

CHAPTER III

DATA COLLECTION AND DATA ANALYSIS

Data Collection

The data will be collected and recorded in the data recording sheet. The starting time for data collection is from the morning of operation after having the consent from the patient.

Intraoperatively the investigator will follow the protocol for control of the intervention and observe the outcome every 5 minute by using a recording sheet as a guideline. All these will be done under blind conditions as much as possible as discussed previously.

Postoperatively another observer will gather data so he or she is blind from the intervention. The data here can be achieved by using an accelograph and clinical observation. All these data are also recorded on the same data recording form.

Data Analysis

After all the data are collected and recorded in the recording sheet, they will be entered and checked before analysis. During the analysis, if there is any

extreme outliers , the data will be rechecked and corrected. The data will be analyzed by using SPSSPC version 4.0 and Epi Info version 5.0.

The research question, research design and methodology will act together to determine the statistical analysis. In this study, in trying to answer the research questions, there are four groups of patients in 2 factor- 2 level factorial design, so the inferential analysis for the dichotomous outcomes will be the chi-square statistics for univariate analysis and the loglinear models for multivariate analysis and for the continuous variables will be the two-way ANOVA (Schlesselman, 1982; Daniel, 1991). The demographic and baseline data which are continuous variables will be analyzed and shown by mean, S.D. and range, while those which are categorical variables will be analyzed and shown by percentage. All the analysis at the end of the study will be done under close supervision and consultation with a biostatistician.

