CHAPTER 4

DATA ANALYSIS

The data was collected and recorded in the recording sheets and then entered the computer using the SPSS program for Window 95. The analysis was also done by the same program.

In this study, there were 4 independent groups with factorial design to be compared. For continuous variables, descriptive statistics for mean (SD), and one way ANOVA with multiple comparison for inferential statistics were used . Simple factorial ANOVA was used to see the main effects of each drug and the interaction between them. Chi square was used to compare the categorical data and Mentel Hanszel test with Yates correction to see the interaction effects. Kruskal Wallis test was used to compare the rank variables. Statistical significance was declared if the p value was below 0.05.

Variable	Type of variable	Statistics
1. Age (year)	continuous	range, mean, SD
2. Weight (kg)	continuous	range, Mean, SD
3. Height (cm)	continuous	range, Mean, SD.
4. BMI (kg/m^2)	continuous	range, Mean, SD
5. Parity	categorical	frequency distribution

1. Intraoperative		
1.1NRS scores	range, mean, SD	factorial ANOVA
1.2 Fentanyl requirement (mg.)	range, mean, SD	ANOVA
1.3 Ketamine requirement (mg)	range, mean, SD	factorial ANOVA
1.4 Hemodynamic changes		
maximum systolic BP	range, mean, SD	ANOVA
minimum systolic BP	range, mean, SD	ANOVA
maximum diastolic BP	range, mean, SD	ANOVA
minimum diastolic BP	range, mean, SD	ANOVA
maximum Pulse	range, mean, SD	ANOVA
minimum Pulse	range, mean, SD	ANOVA
1.5 Nausea, vomiting	percent	chi-square
1.6 Number of patients who require analgesics.(grade 1-3)	percent	Kruskal Wallis
1.7 Operative time (min)	range, mean, SD	ANOVA
1.8 Blood level of lidocaine (μgm/ml)	range, mean, SD	ANOVA
2. Postoperative numerical rating scale (NRS)	range, mean, SD	ANOVA
3.Analgesic requirement postoperation (paracetamol tablets)	range, mean, SD	ANOVA
4. Side effects	percent	chi -square