

CHAPTER II

RESEARCH DESIGN

Primary Research Question

Are there any differences in recovery times of isoflurane and halothane anesthesia as assessed by the Ball Bearing Test (B.B.T.) and the Digit Symbol Substitution Test (D.S.S.T.) in patients undergoing elective gynecologic diagnostic laparoscopy?

(recovery time = time from the end of anesthesia to the time the patients can perform both tests at the control level \pm 10%)

Secondary Research Questions

1. Are there any differences in recovery times of isoflurane and halothane anesthesia as assessed by clinical tests (response to verbal command, extubation, orientation, sit up, stand up and walk unaided)?

2. Are the side effects of isoflurane anesthesia more or less than halothane anesthesia?

Research Objectives

1. To compare the recovery times assessed by clinical observation, the Ball Bearing Test and the Digit Symbol Substitution test between isoflurane and halothane anesthesia

2. To compare the side effects of isoflurane anesthesia with halothane anesthesia

Research Design

The appropriate research design of this study is a randomized clinical trial.