

**Official Title:**

Efficacy of Propofol Combination with either Ketamine, Dexmedetomidine or Midazolam for Sedation during Upper Gastrointestinal Endoscopic Procedures: A Prospective, Randomized, Comparative Study

**NCT Number:**

Pending (to be assigned by ClinicalTrials.gov)

**Document Type:**

Statistical analysis plan

**Version/Date:**

Version 1.0 – July 29, 2024



## Methodological Approach of a Research Protocol

### A Review Checklist

**Title of the Research:** Efficacy of Propofol Combination with either Ketamine, Dexmedetomidine or Midazolam for Sedation during Upper Gastrointestinal Endoscopic Procedures: A Prospective, Randomized, Comparative Study

**Name of Researcher:** Hazem Mohamed Sabry Abdelaziz

**Specialty:** Anesthesia

**Type of Research:** MD degree

#### I- Research Objective

- a. Well formulated objective: ✓

**Proposed reformulated objective:** To compare the following sedative combinations (ketamine-propofol, dexmedetomidine-propofol and midazolam-propofol) as regard the recovery time for patients undergoing elective upper gastrointestinal endoscopic procedures.

**Objective conforming with study design** ✓

#### II- Study Design Review

- a. Type of Study Design: -----

- b. Proposed study design: Three Arms Randomized Clinical Trial

#### III- Sample Size:

Using G power software for sample size calculation: setting power at 80% and  $\alpha$  error at 5%, it is estimated that a sample size of 66 patients undergoing elective upper gastrointestinal endoscopic procedures (22 patients receiving ketamine-propofol, 22 patients receiving dexmedetomidine-propofol, and 22 patients receiving midazolam-propofol combinations) will be needed to detect a statistically significant difference between the three groups as regards the recovery time in minutes, assuming a large effect size ( $f=0.40$ ) regarding *Tekeli et al., 2020*, using F test (ANOVA: fixed effects, omnibus, one-way).

Assuming that the dropout is of 10%, a sample size of at least 75 patients undergoing elective upper gastrointestinal endoscopic procedures (25 patients per group) will be needed.

#### IV- Missed Items to be added: -----

**Name of Reviewer:** Dr. Shaimaa Samy Yousef



Presented for Medical Research Ethical Committee at Faculty of Medicine Ain Shams University

Review Checklist