I hereby certify that the statistical analyses reported in the manuscript entitled

“Incidence, Severity, and Predictors of Postoperative Nausea and Vomiting After Laparoscopic Sleeve Gastrectomy: A Prospective Cohort Study Using the INVR Scale”

by Guan-Yu Yang, Xiao-Fei Zhang, Xin Zhao, et al. (submitted to World Journal of Gastroenterology) have been reviewed by a qualified biostatistician.

The following statistical methods were assessed:

Descriptive statistics (mean ± SD, median with IQR, frequencies and percentages)

Least absolute shrinkage and selection operator (LASSO) regression for variable selection

Multivariable logistic regression modeling, including assessment of multicollinearity using variance inflation factor (VIF)

Events-per-variable (EPV) calculation for sample size justification

Sensitivity analyses using alternative outcome definitions (moderate-to-severe PONV, vomiting-only)

All analyses were performed using R software version 4.5.1. The applied methods are appropriate for the study design and research objectives. The statistical results are accurately presented, and the interpretation of findings in the manuscript is consistent with the data and the analytic approach.

This review confirms that the statistical components of the study meet the standards expected for publication in a peer-reviewed medical journal.

Reviewed by:

Zeifei Zhu