

Date: 07/10/2024

Certificate of Biostatistical Review

This is to certify that the manuscript titled:

" Surgical and nonsurgical risk factors affecting the insufficiency of ileocolic anastomosis after first-time surgery in Crohn's disease patients. "

authored by:

Jarosław Cwaliński, Filip Lorek, Łukasz Mazurkiewicz, Michał Mazurkiewicz, Wojciech Lizurej, Jacek Paszkowski, Hanna Cholerzyńska, Wiktoria Zasada

has undergone a thorough biostatistical review by the undersigned. The review process included an evaluation of the study design, data collection methods, statistical analysis, and interpretation of the results.

The key points addressed during the review are as follows:

1. **Study Design:** The appropriateness of the study design for addressing the research question was evaluated.
2. **Sample Size and Power Analysis:** The adequacy of the sample size and the power analysis to detect meaningful differences were assessed.
3. **Data Collection Methods:** The methods for data collection and the handling of missing data were examined.
4. **Statistical Methods:** The statistical methods used for data analysis were reviewed for appropriateness and accuracy.
5. **Assumptions and Validations:** The assumptions underlying the statistical tests and models were checked, and appropriate validations were confirmed.
6. **Interpretation of Results:** The interpretation of the statistical findings in the context of the study objectives was reviewed for accuracy and clarity.
7. **Presentation of Data:** The clarity and completeness of the data presentation in tables, figures, and text were evaluated.

Based on this comprehensive review, the statistical methodologies applied in the manuscript are deemed to be appropriate and correctly implemented, and the results are interpreted in a scientifically sound manner.

Reviewer's Name:

Assoc. Prof. Barbara Więckowska, PhD

Signature:

.....
