



### REVIEWER'S REPORT

Manuscript No.: IJAR-57046

Title: Anticoagulant Dysregulation in Heavy Menstrual Bleeding: Evidence from Altered Proteins and Activated Partial Thromboplastin Time in Female Undergraduates

#### Recommendation:

- Accept as it is .....
- ✓ Accept after minor revision.....**
- Accept after major revision .....
- Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality	✓			
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Name: Dr S. K. Nath

#### Detailed Reviewer's Report

##### Strength of the study

- Focuses on a relevant and common clinical condition
- Clear objective and comparison between case and control groups
- Ethical approval and informed consent clearly mentioned
- Use of standard laboratory methods like ELISA and APTT
- Inclusion of control group strengthens comparison
- Results are clearly presented with tables
- Discussion provides physiological explanation of findings

##### Weakness of the study

- Small sample size limits generalizability
- Use of paired t test instead of independent test creates methodological concern
- Limited number of haemostatic parameters studied
- Some grammatical errors and awkward sentence construction
- Overly lengthy and repetitive discussion section
- Lack of detailed statistical interpretation
- No mention of potential confounding factors

##### Reviewers Comments

The manuscript addresses an important clinical issue related to heavy menstrual bleeding and its association with haemostatic parameters in young women. The study design with a control group is appropriate, and ethical clearance along with informed consent has been clearly stated, which is commendable. The laboratory methods used are standard and the results are presented in a clear manner, particularly in the tables on pages 5 and 6. However, the overall writing quality needs improvement, as there are several grammatical errors and some sentences are difficult to follow. The statistical method mentioned as paired t test raises concern, as the groups appear independent and this should be clarified or corrected. The discussion is detailed but somewhat repetitive and can be made more concise. The study is limited by its small sample size and restricted number of parameters assessed, and these limitations should be emphasized more clearly. Overall, the study is relevant and has good potential, but requires improvement in methodology clarification, language, and presentation.

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