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REVIEWER'S REPORT

Manuscript No.: IJAR-55730

Title: "Constitutional Prothrombin Deficiency Revealed by a Family Investigation"

Recommendation:

Accept after minor revision……

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

Reviewer Name: Faheem Abdul Muneeb

Reviewer's Comment

This manuscript reports a well-documented familial case of severe congenital factor II deficiency identified through systematic family investigation in a consanguineous Moroccan family. By integrating clinical presentation, detailed coagulation studies, and family screening, the authors highlight the diagnostic value of laboratory investigation and pedigree analysis in rare bleeding disorders. The topic is clinically relevant and contributes to the limited case-based literature on congenital prothrombin deficiency, particularly in regions with high consanguinity. The paper is appropriate for publication in a clinical laboratory or hematology journal..

Clinical Value and Contribution

The case is clearly presented and clinically meaningful. The description of the index case, siblings, and asymptomatic parents provides a coherent illustration of autosomal recessive inheritance. The inclusion of photographic documentation and a family table strengthens the report. The discussion of factor II structure, classification of deficiencies, and genotype–phenotype correlations is accurate and informative, and the emphasis on family investigation and genetic counseling is well justified.

Methodological and Presentation Considerations

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The diagnostic approach is appropriate and follows standard laboratory practice. However, the manuscript would benefit from a brief clarification on why antigenic assays and molecular analysis were not performed, as these are relevant for definitive classification. Minor language editing and tightening of the discussion section would improve clarity and reduce redundancy. The discussion could also be slightly condensed, as some biochemical details are extensive for a case report.

Final Recommendation

This is a clear, clinically relevant, and well-supported case report that adds value to the literature on rare coagulation disorders. With minor revisions focusing on stylistic refinement and brief methodological clarification, the manuscript will be suitable for publication.

Decision: Accepted with minor revisions.