

REVIEWER'S REPORT

Manuscript No.: IJAR-54903

Title: PREMATURE CORONARY ARTERY DISEASE DUE TO FAMILIAL HYPERCHOLESTOLEMIA IN A 26 YEAR FEMALE

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

Date: 21.11.25

Detailed Reviewer's Report

Strengths of the Paper

- **Comprehensive Case Presentation:** The paper provides a detailed account of a young female patient with familial hypercholesterolemia and premature coronary artery disease, including clinical signs, lipid profile, and angiographic findings.
- **Emphasis on Early Diagnosis and Family Screening:** The article underscores the importance of early detection and screening of family members to prevent severe cardiovascular outcomes.
- **Inclusion of Current Therapeutic Strategies:** The report discusses contemporary management options such as statins, ezetimibe, PCSK9 inhibitors, and LDL apheresis, reflecting up-to-date treatment modalities.
- **Use of Established Diagnostic Criteria:** Application of the Dutch Lipid Clinic Network Score supports a systematic approach to diagnosis.
- **Relevant Literature Integration:** The paper references current studies and consensus statements, providing a solid background and context.

Weaknesses of the Paper

- **Limited Methodological Detail:** The case report lacks detailed information about the diagnostic process, including genetic testing and broader family screening results.
- **Inadequate Discussion on Long-term Management:** The discussion does not extensively cover follow-up strategies, patient adherence, or psychosocial aspects.
- **Absence of Figures or Tables:** Visual aids such as angiograms or lipid profile charts could enhance comprehension.
- **Inconsistent Referencing Style:** Some references are incomplete or lack consistent formatting.
- **Minimal Explanation of Novel or Controversial Treatments:** The paper mentions therapies like LDL apheresis without discussing eligibility criteria, risks, or expected outcomes.

Reviewer Comments

- **Ethical Clearance:** The manuscript does not mention whether ethical approval or informed consent was obtained, which is essential for case reports involving patient data. Clarification is necessary.
- **Issues in Methodology:** As a case report, the methodology is inherently limited. Nonetheless, inclusion of genetic testing results and family screening data would strengthen the report.

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

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- **Typographical Mistakes:** Minor typographical errors are present, such as inconsistent spacing and punctuation issues—for example, "cutaneousxanthomas" should be "cutaneous xanthomas."
- **Grammar and Language Quality:** Overall, the language is understandable but occasionally awkward; improvements in sentence structure and clarity are recommended.
- **Formatting Issues:** There are inconsistent headings, font sizes, and paragraph alignments. Standardizing the format would improve readability.
- **Clarity of Objectives, Results, and Conclusion:** The objectives are clear, but the results and conclusions could be articulated more explicitly to emphasize the implications for clinical practice.
- **References Adequacy:** The references are relevant but somewhat limited; expanding on recent guidelines and adding more recent studies would be beneficial.
- **Missing or Incomplete Information:** Details regarding family screening outcomes, genetic mutation analysis, and long-term follow-up plan are missing, which are important for a comprehensive understanding.