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REVIEWER'S REPORT

Manuscript No.: IJAR-56485

Title: Severe Cardiac Arrhythmias in the Emergency Department: A1 Retrospective Study of 79 Cases at Ibn Rochd University Hospital

- 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

Strengths of the Study

- **Originality:** The study addresses a relevant clinical issue severe cardiac arrhythmias in an emergency setting contributing valuable data from a Moroccan hospital that adds to the limited regional literature.
- **Relevance:** Findings are highly pertinent for emergency medicine, cardiology, and healthcare management, emphasizing the importance of prompt management.
- **Methodology:** The retrospective descriptive design covers 79 cases over six months, providing detailed epidemiological, clinical, and therapeutic data.
- **Data Quality:** Utilizes comprehensive patient data from medical records, including clinical presentation, underlying conditions, management, and outcomes.
- **Contribution to the Field:** Highlights local patterns of arrhythmias, management strategies, and outcomes, which can inform regional clinical protocols.

Weaknesses of the Study

- **Sample Size:** Although appropriate for a single-center study, the small sample limits statistical power and generalizability.
- **Lack of Statistical Analysis:** The study primarily presents descriptive data without inferential statistics to analyze associations or risk factors.
- **Ethical Details:** The manuscript does not mention ethical approval or patient consent, which is essential for retrospective studies involving patient data.
- **Limited Discussion:** The discussion compares findings broadly but lacks a critical analysis of limitations, potential biases, or comparison with different settings.
- **Incomplete References:** The references are numbered without complete citation details, making validation difficult.
- **Presentation:** Some typographical and grammatical errors are present; flow of sections can be improved for clarity.
- **Figures/Tables:** The manuscript lacks tables or figures that could aid data presentation for clearer comprehension.

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Reviewer Comments

- **Title and Abstract Clarity:** The title accurately reflects the study focus. The abstract succinctly covers objectives, methods, key findings, and conclusions but could benefit from clearer structure, explicitly highlighting the significance of findings.
- **Introduction and Objectives:** The introduction provides necessary background but is somewhat brief. Clarification on the specific research gap addressed would strengthen the rationale. The objectives are clearly stated but could be framed more explicitly as hypothesis or research questions.
- **Methodology and Statistical Analysis:** The retrospective design is appropriate, but details on data collection procedures, inclusion/exclusion criteria, and ethical oversight are missing. Absence of any statistical testing restricts the depth of analysis including comparative statistics or correlation analyses if feasible.
- **Results and Discussion:** Results are well-organized, indicating key epidemiological and clinical patterns. However, they rely heavily on percentages; including actual counts and confidence intervals might improve clarity. The discussion contextualizes findings against literature but lacks acknowledgment of the study's limitations or potential biases. An exploration of factors influencing outcomes would enhance interpretability.
- **Conclusion and Implications:** The conclusion summarizes key points but does not thoroughly discuss clinical or policy implications. It would be beneficial to suggest specific recommendations based on findings.
- **Ethical Clearance:** No mention is made of ethical approval or patient consent protocols. As this is a retrospective study involving patient data, approval from an institutional review board or ethics committee is typically required. Clarification or statement confirming ethical compliance is necessary.
- **Grammar, Language, and Typographical Errors:** Some grammatical errors and awkward phrasing are present, indicating the need for language editing. For example, sentences could be streamlined for clarity and professionalism.
- **Tables, Figures, Formatting, and References:** The manuscript would be significantly improved with the inclusion of tables summarizing patient characteristics, arrhythmia types, management strategies, and outcomes. Proper formatting references with complete citations is essential for scholarly standards.