

REVIEWER'S REPORT

Manuscript No.: IJAR-56788

Title: ECG manifestation of Covid 19 in India

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revisionYES...

Do not accept (*Reasons below*)

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

Reviewer's ID: JPR-094

Detailed Reviewer's Report

☐ ****1. Strengths****

*** **Relevant Topic****

The study addresses cardiovascular involvement in COVID-19, which remains clinically important.

*** **Adequate Sample Size****

Inclusion of 215 patients provides moderate statistical reliability.

*** **Clear Objective****

The aim to evaluate ECG abnormalities at admission is well-defined.

*** **Simple Study Design****

Retrospective observational design is appropriate for preliminary exploration.

*** **Clinically Useful Findings****

Identification of common abnormalities such as:

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

- * Sinus tachycardia
- * Sinus bradycardia
- * Atrial fibrillation
- adds practical clinical value.

□ ****2. Weaknesses****

Major Weaknesses

*** **Lack of Novelty****

- * Similar studies already exist in Indian and international literature.
- * Findings (e.g., sinus tachycardia predominance) are already well established.

*** **Limited Statistical Analysis****

- * Only basic proportion tests used.
- * No multivariate analysis to control confounders.
- * No regression analysis for predictors.

*** **No Outcome Correlation****

- * ECG findings are not correlated with:

- * ICU admission
- * Severity
- * Mortality (very limited analysis)

*** **Methodological Gaps****

- * No mention of:

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

- * Study period
- * Hospital details
- * Ethical approval number
- * Severity classification of COVID-19

* **Selection Bias**

- * Only hospitalized patients included → limits generalizability.

Minor Weaknesses

* Multiple **typographical errors**:

- * “andhistory”
- * “STelevated”
- * Poor formatting and grammar
- * Inconsistent referencing style
- * Tables not formatted as per journal standards
- * Repetition in discussion section
- * Lack of figure/graphical representation

3. Key Points

- * Very high prevalence (96%) of ECG abnormalities reported
- * Most common abnormality:
 - * Sinus tachycardia (61.9%)
- * Significant association:
 - * Higher STEMI prevalence in patients with ≥ 2 comorbidities
- * Common comorbidities:

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

* Diabetes

* Hypertension

☐ **4. Significance of the Study**

Clinical Significance

* Reinforces importance of ECG screening in COVID-19 patients

* Highlights cardiovascular risk in comorbid individuals

☐ Scientific Significance

* **Moderate to Low**

* Does not provide new mechanisms or predictive models

* Limited advancement beyond existing literature

5. Reviewer's Recommendation

Overall Decision: MAJOR REVISION REQUIRED

6. Specific Recommendations for Improvement

Methodology

* Add:

* Study duration

* Ethical approval details

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

- * Inclusion/exclusion clarity
- * Include severity classification of COVID-19

Statistical Analysis

* Perform:

- * Multivariate regression analysis
- * Adjust for confounders (age, comorbidities)

Results Enhancement

* Add:

- * Graphs/charts (ECG distribution, comorbidity comparison)
- * Provide confidence intervals

Discussion Improvement

- * Reduce repetition
- * Add critical comparison with recent studies
- * Explain unusually high ECG abnormality rate (96%)

Formatting & Language

- * Correct grammar and spacing issues
- * Standardize references (Vancouver style)
- * Improve table formatting

Final Reviewer Comment

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

The manuscript addresses an important clinical topic; however, it lacks novelty, robust statistical analysis, and methodological clarity. Substantial revision is required to improve scientific rigor and presentation before it can be considered for publication.

****Why MAJOR REVISION – Justification****

****ABSTRACT SECTION****

Lines 4–7 (Background)

* Statement is ****very generic**** about COVID-19 and cardiac problems

* ☐ No clear research gap identified

* ☐ No novelty highlighted

****Issue:**** Lacks justification of why this study is needed

Lines 9–13 (Methodology)

* “tertiary care centre” → ☐ not specified (name/location missing)

* “andhistory” → ☐ typographical error

* ☐ No study duration mentioned

* ☐ No sampling method described

****Issue:**** Methodology incomplete and unclear

Lines 15–22 (Results)

* “Almost all (96%) had ECG anomalies” → ☐ unusually high, needs explanation

* ☐ No confidence intervals or statistical depth

* ☐ No mention of clinical severity or outcomes

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

****Issue:** Results lack depth and critical interpretation**

Lines 23–26 (Conclusion)

- * ☐ Over-generalized conclusion
- * ☐ No strong clinical implication
- * ☐ No actionable recommendation

****Issue:** Weak and non-impactful conclusion**

**INTRODUCTION**

Lines 30–33

- * ☐ Overused general statements about ACE2
- * ☐ Already well-established knowledge

****Issue:** Lacks novelty and focus**

Lines 39–41

- * “up to 40% cardiac problems” → ☐ not critically analyzed
- * ☐ No recent high-impact references

****Issue:** Literature review is superficial**

Lines 49–52

- * ☐ Claims “adds to existing studies” but does not specify how
- * ☐ No clear research gap or hypothesis

****Issue:** Missing scientific justification**

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

**METHODOLOGY**

Lines 55–58

- * ☐ No study period (e.g., 2020–2022)
- * ☐ No ethical approval number
- * ☐ “informed consent” unclear in retrospective study

****Issue:** Ethical and methodological incompleteness**

Lines 59–61

- * “Echocardiogram assessment” heading
- * ☐ But no echocardiography data presented

****Issue:** Misleading section title**

Lines 63–72 (Data collection)

- * ☐ No definition of ECG abnormalities
- * ☐ No diagnostic criteria mentioned
- * ☐ No interobserver variability assessment

****Issue:** Poor methodological rigor**

Lines 74–78 (Statistical analysis)

- * ☐ Only basic proportion test used
- * ☐ No:

* Multivariate analysis

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

* Logistic regression

* Adjustment for confounders

****Issue:** Weak statistical design**

RESULTS

Lines 81–84

* ☐ Demographic data poorly structured

* ☐ Missing p-values for comparisons

****Issue:** Descriptive but not analytical**

Lines 89–92

* 96% ECG abnormality rate

* ☐ Not justified or compared properly

****Issue:** Questionable validity or bias**

Lines 93–96

* STEMI association reported

* ☐ No adjustment for confounders

* ☐ Small subgroup (n=14) may bias results

****Issue:** Overinterpretation of results**

DISCUSSION

Lines 99–103

REVIEWER'S REPORT

* ☐ Repetition of results instead of interpretation

****Issue:** Poor discussion quality**

Lines 105–111

* ☐ Weak comparison with previous studies

* ☐ No critical analysis of differences

****Issue:** Lacks scientific depth**

Lines 130–134

* ECG abnormality rate (96%) vs literature (33–81%)

* ☐ No strong explanation for discrepancy

****Issue:** Major scientific gap**

Lines 146–150

* STEMI explanation given

* ☐ No direct evidence from study

* ☐ Mostly literature-based speculation

****Issue:** Unsupported conclusions**

**LIMITATIONS (Lines 153–155)**

* Only mentions:

* Small sample size

* Missing symptoms

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

☐ Missing major limitations:

* Selection bias

* Single-center study

* No severity classification

* No follow-up

****Issue:** Underreported limitations**

**CONCLUSION**

Lines 157–160

* ☐ Very generic

* ☐ No strong clinical takeaway

* ☐ No future direction in detail

****Issue:** Weak impact**

**REFERENCES**

Lines 166–204

* ☐ Inconsistent formatting

* ☐ Missing DOI

* ☐ Mix of styles

****Issue:** Not journal compliant**

**TABLES**

Table 1 & 2

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

- * ☐ Poor formatting
- * ☐ No clear titles/captions
- * ☐ No statistical indicators (CI, adjusted values)

****Issue:** Not publication-ready**

**FINAL JUSTIFICATION FOR MAJOR REVISION**

Because the manuscript has:

Scientific Issues

- * No novelty
- * Weak statistical analysis
- * No outcome correlation

Methodological Issues

- * Missing study details
- * No ethical clarity
- * Poor variable definition

Presentation Issues

- * Typographical errors
- * Poor formatting
- * Weak discussion

**Editorial Decision Justification**

****MAJOR REVISION REQUIRED** because:**

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

* Core data is usable ☐

* But scientific rigor, clarity, and analysis are insufficient ☐

Reviewer Final Comment

The manuscript contains clinically relevant data; however, significant improvements in methodology, statistical analysis, and scientific presentation are required. The current version does not meet publication standards and requires major revision.