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REVIEWER'S REPORT

Manuscript No.: IJAR-55650

Title: Clinico-Radio-Pathological Profile of Lung Cancer: An Observational Study in a Tertiary Care Hospital in Tripura

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: 09.01.26*Detailed Reviewer's Report***Strengths of the Study**

- The study addresses an important clinical issue by characterizing the clinico-radio-pathological profile of lung cancer in a specific regional population in Northeast India, an area with limited existing data.
- The research provides valuable epidemiological insights, including demographic details, symptomatology, risk factors, and histopathological patterns, contributing to regional cancer understanding.
- Utilization of multiple diagnostic modalities (radiographs, CT scans, bronchoscopy, FNAC, and histopathology) enhances the comprehensiveness of the diagnostic approach.
- The sample size of 240 cases is moderate and allows for meaningful descriptive analysis within this regional context.
- The clear presentation of data with detailed tables on clinical and radiological findings offers useful information for local healthcare planning.

Weaknesses of the Study

- Being a single-center, hospital-based observational study limits the generalizability of findings to the broader population.
- The sample size, while moderate, may not be sufficient to conduct detailed subgroup analyses, especially for less common histological types.
- The absence of molecular profiling or advanced diagnostic markers limits the contemporary understanding of tumor biology and targeted therapy implications.
- The study lacks follow-up data on treatment outcomes, survival, or quality of life, which would enhance the clinical relevance.
- The statistical analysis primarily employs descriptive statistics; inferential statistical testing is not reported, restricting assessment of associations or significance.
- Ethical clearance is mentioned, but specific approval details, such as approval number or committee reference, are not provided.
- Minor language errors and inconsistencies (e.g., "no of patients" instead of "number of patients") reduce readability.
- Figures and tables are generally adequate but could benefit from clearer formatting for ease of interpretation; references are appropriate but could be more thoroughly integrated into the discussion.

REVIEWER'S REPORT**Reviewer Comments**

- **Title and Abstract Clarity:** The title accurately reflects the study scope. The abstract succinctly summarizes the background, objectives, methods, key findings, and conclusions, though incorporating specific statistical data could improve clarity.
- **Introduction and Objectives:** The introduction effectively contextualizes lung cancer both globally and regionally. Clear objectives are stated, emphasizing the need to characterize regional clinico-radio-pathological features.
- **Methodology and Statistical Analysis:** The methodology is well-structured, including inclusion/exclusion criteria and diagnostic procedures. However, the statistical approach is limited to descriptive measures; more advanced analysis (e.g., correlation or significance testing) would improve depth.
- **Results and Discussion:** Results are comprehensive with detailed demographic, clinical, radiological, and histopathological data. The discussion appropriately relates findings to existing literature, highlighting regional differences and trends. Including more comparative analysis of risk factors and histological shifts would strengthen the discussion.
- **Conclusion and Implications:** Conclusions are supported by the data and emphasize regional epidemiological trends and diagnostic approaches. Recommendations for public health strategies and early detection are pertinent.
- **Ethical Clearance:** Ethical approval is stated; however, specific approval details (approval number, committee name) are absent. It is advisable to include these details for transparency.
- **Grammar, Language, and Formatting:** The manuscript has minor grammatical errors and typographical inconsistencies. Overall language quality is acceptable but can benefit from proofreading for clarity.
- **Tables, Figures, and References:** Tables are clear but could be reformatted for better readability. Figures are absent; including illustrative images or flowcharts would be beneficial. References are pertinent and include recent literature.