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REVIEWER'S REPORT

Manuscript No.: IJAR-58165

Title: Effectiveness of a Structured Case-Based Chest Radiograph Interpretation Workshop for Undergraduate Medical Students: A Multicenter Pretest-Posttest Educational Study.

Recommendation:

Accept as it is

Accept after minor revision...

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- 1. Chest Radiograph Interpretation is the systematic process of analyzing a chest X-ray to evaluate the structures of the chest, including the lungs, heart, airways, blood vessels, and bones . It is used to diagnose conditions like pneumonia, heart failure, and collapsed lungs, and to confirm the position of medical devices.**
- 2. Structured case-based chest imaging is a highly effective, anatomy-driven method for diagnosing pulmonary conditions. By combining a systematic viewing strategy with real-world patient cases, clinicians map imaging patterns (like nodules or opacities) to lung anatomy and build accurate differential diagnoses.**
- 3. Radiographic interpretation is the process of analyzing medical or industrial X-ray images to identify normal structures, detect abnormalities, faults, or diseases, and formulate a diagnosis. It bridges the gap between taking an X-ray and taking actionable steps based on what the image reveals.**
- 4. The effectiveness of radiograph interpretation—the process of extracting medical and diagnostic information from X-ray images — is defined by its combination of high diagnostic accuracy (sensitivity**

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and specificity) and time efficiency. When executed effectively, it leads to earlier detection, reduced errors, and better patient outcomes.

5. A Pretest-Posttest design is a research method that measures a variable (such as knowledge, health, or behavior) before and after an intervention to determine if the treatment caused a change. It acts as a before-and-after snapshot to evaluate the effectiveness of an educational program, medical treatment, or psychological therapy.
6. A Structured Case-Based approach uses realistic, scenario-driven problems to develop analytical and decision-making skills. Instead of learning rules first, learners analyze complex situations, weigh alternatives, and justify choices.
7. Key words must be given.
8. Abstract is good.
9. Result part is awesome with tables and graphs.
10. Summary points must be included.
11. If possible can be included little more references with discussion points and also must be given alphabetical order.
12. After those changes good to publish in your journal.