

REVIEWER'S REPORT

Manuscript No.: IJAR-56874

Title: De la pharmacologie à l'imagerie médicale : l'évolution des agents de contraste iodés et leur impact diagnostique

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

- The manuscript presents a relevant and timely overview of the evolution of iodinated contrast agents, highlighting their pharmacological and clinical aspects.
- The authors provide practical insights based on their experience at the Nouakchott Military Hospital, which adds real-world applicability to the findings.
- The historical perspective on contrast media development, from ionic hyperosmolars to non-ionic low-osmolar agents, offers valuable educational content.
- The discussion on safety, side effects, and improvements in patient tolerability demonstrates a comprehensive understanding of the field.
- The paper emphasizes the interdisciplinary collaboration necessary for optimizing contrast media use, which is a notable contribution.

Weaknesses of the Study

- The article is primarily a narrative review with limited original data or quantitative analysis, reducing its scientific novelty.
- Details on methodology, such as how the hospital's experience was documented or analyzed, are minimal and lack rigor.
- No statistical analysis or data metrics are provided to substantiate claims about the improvement in safety or diagnostic quality.
- The sample size or number of patients involved in the hospital's internal experience is not specified.
- The manuscript lacks clarity on ethical approval or informed consent processes related to the hospital's observational data.
- The references are somewhat limited and lack recent or diverse source material, potentially affecting the comprehensiveness of the review.
- Some sections, especially the conclusion, reiterate prior points without synthesizing new insights or implications for practice.
- The language and grammar, although mostly acceptable, could benefit from refinement for clarity and flow.
- The formatting of references and consistency in the presentation of data are areas for improvement.

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Reviewer Comments

- **Title and Abstract:** The title adequately reflects the paper's scope but could be more concise. The abstract summarizes the key points but would benefit from clearer articulation of the study's objectives and methods. Explicitly stating that this is an experience report supplemented with a literature review would improve clarity.
- **Introduction and Objectives:** The introduction contextualizes the evolution of contrast media well but lacks explicit statement of the study's aims or research questions. Clarifying whether the goal is to review the evolution, assess clinical experience, or both would strengthen the manuscript.
- **Methodology and Statistical Analysis:** Methodological details are sparse. It appears the hospital's observations are descriptive without structured data collection or statistical validation. For enhanced rigor, inclusion of patient numbers, adverse event rates, or comparative analysis would be beneficial.
- **Results and Discussion:** The results rely on qualitative descriptions of hospital experience and literature synthesis. Incorporation of quantitative data or case series could substantiate claims about improvements in safety and image quality.
- **Conclusion and Implications:** The conclusion correctly emphasizes the importance of pharmacological advances, but it could better highlight future research directions or clinical recommendations based on the hospital's experience.
- **Ethical Clearance:** There is no mention of ethical approval or informed consent procedures related to the hospital's observations. Clarification is necessary to ensure adherence to research ethics standards.
- **Language and Formatting:** The manuscript is generally understandable but requires proofreading to correct minor grammatical errors and typos. Ensuring a uniform format for citations and references would improve professionalism.
- **References:** The reference list is brief and could be expanded with recent and diverse sources to reinforce the review aspect of the paper.