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## REVIEWER'S REPORT

Manuscript No.: IJAR-59204

**Title: The Future of Preventive Healthcare: Can AI Make Early Disease Detection Accessible and Affordable in Developing Countries.**

**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 ID: JP085

**Reviewer's Comment for Publication.**

This review article discusses the potential role of artificial intelligence (AI) in improving early disease detection in low- and middle-income countries (LMICs). It covers AI applications in medical imaging, diabetic retinopathy, tuberculosis screening, laboratory medicine, point-of-care technologies, and risk prediction. The article also discusses affordability, infrastructure, data quality, ethics, regulation, workforce requirements, and possible business models. The authors conclude that AI can support preventive healthcare but should complement healthcare professionals rather than replace them.

**Strength**:

1. The topic is current and highly relevant to developing countries.
2. The article covers multiple applications of AI in preventive healthcare.
3. LMIC-specific challenges are discussed clearly.
4. Affordability and total cost of implementation are appropriately considered.
5. The importance of human oversight is well explained.
6. Ethical, privacy, bias, and regulatory issues are included.
7. The article discusses practical business and financing models.

**Weakness**:

1. The methodology for selecting and analysing the literature is not described in sufficient detail.
2. Search databases, search terms, inclusion/exclusion criteria, and study selection process are not provided.
3. The review does not include a systematic evidence-quality assessment.
4. The number of studies finally included in the review is not clearly stated.
5. Many conclusions are based on secondary reviews rather than original studies.

**Overall assessment:**

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The article addresses an important and emerging topic and provides a broad discussion of AI-assisted preventive healthcare in LMICs. However, the literature-review methodology, evidence selection, quantitative economic evidence, and presentation need substantial improvement before publication.

**Recommendation**: Manuscript accepted for publication after minor revision.