Reviewer’s report

Title: The challenges of colposcopy for cervical cancer screening in LMICs and solutions by artificial intelligence

Version: 0 Date: 13 Apr 2020

Reviewer: Huiyan Luo

Reviewer's report:

GENERAL POINTS:

Overall, this is an interesting review about the challenges of colposcopy for cervical cancer screening in low- and middle- income countries and the author also give a suggestion for solving this problem- artificial intelligence. You clearly stated the background of this issue, the challenges of diagnostic performance of colposcopy in low- and middle- income countries, the solutions to development and application of AI guided digital colposcopy, the advancements and the challenges in computer algorithms applying to cervical images. However, I found some places that would further improvement. Please see below the detailed comments divided by each section of your manuscript.

Background and The challenges of diagnostic performance of colposcopy in LMICs sections
In these two sections, I would recommend that the author first make a comparison of what screening strategies are used for cervical cancer in different countries, what are the advantages and disadvantages of each, and identify what are the most important challenges with screening strategies in low-income countries. This could help readers better understand what a key role AI can play in cervical cancer screening.

The advancements in computer algorithms applying to cervical images
This section should discuss the strengths and limitations of existing reported studies. The challenges to development and application of AI guided digital colposcopy How to improve AI technology is also a challenge

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

Does the Opinion piece present a novel argument, or a novel insight into existing work?

Yes
Does the Opinion piece address an important problem of interest to a broad biomedical audience?

Yes

Has the author used logical arguments and sound reasoning?

Yes

Is the piece written well enough for publication?

Yes

Is the piece well-argued and referenced?

Yes

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