Letter to the Editor

Taiwan J Ophthalmol 2023;13:256

Comment on: "Understanding required to consider AI applications to the field of ophthalmology"

Dear Editor,

In the response to the article titled, "Understanding required to consider AI applications to the field of ophthalmology" published in your esteemed journal, which is a well-thought-out and written paper, I would like to raise few points regarding this study.

In the article, the author reports some performance limitations of diagnostic imaging of artificial intelligence.[1]

We should remember the limitations and discussions about ethical aspects in the development of artificial intelligence. Some biases that can occur in data collection can affect the training and development of the algorithm. Data must be validated in a geographically distinct population and validated by independent researchers to avoid bias in their development.[2]

Algorithms need to be further developed for the studies of multimodal and three-dimensional images. The analysis of images in three dimensions allows a better analysis of the patient's pathology.[3] The algorithm with three-dimensional analysis can be useful in planning retinal surgeries and monitoring intraocular pathologies. These technologies are already used in other areas of medicine, such as in the analysis of bone pathologies.[4]

Artificial intelligence and ophthalmology works in this way as a solution to barriers in the ophthalmic care of the population that would contribute to the reduction of visual impairment.

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Conflicts of interest

The authors declare that there are no conflicts of interests of this paper.

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