PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 77872

Title: Everything real about unreal artificial intelligence in diabetic retinopathy and in ocular pathologies

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05758135

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: India

Manuscript submission date: 2022-05-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-10 12:57

Reviewer performed review: 2022-06-15 07:19

Review time: 4 Days and 18 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

SPECIFIC COMMENTS TO AUTHORS

This manuscript is a review article on the use of artificial intelligence (AI) for major diseases in the field of ophthalmology. The authors report the use of AI for eight diseases, Diabetic retinopathy, Age-related macular degeneration, Glaucoma, Retinopathy of prematurity, Keratoconus, Corneal dystrophies and dysplasia, Dry eye and Cataract. And for each of which, several papers that utilise AI are evaluated. The content of the review for each disease is generally considered to be acceptable. However, in order to improve readers' understanding of the papers, the reviewer requires improvements in the following points;   Inappropriate title. The title is 'Diabetic Retinopathy and in Ocular Science' and there is no doubt that authors have written a lot about diabetic retinopathy. However, the inclusion of one specific disease name in the title is likely to deter potential readers with an interest in other diseases.   The structure of the article is confusing. Between the Introduction and Conclusion, there appears to be a chapter called Review. There then seems to be a hierarchy of two sections (AI basics, Use of AI in ophthalmology) and several subsections within the chapter Review. However, this is difficult to understand. This is probably due to the difficulty in distinguishing the title expression of each chapter (or section). As a suggestion, it would be easier to read and understand if a chapter called "AI basics" is created after Introduction, followed by a chapter called "Use of AI in ophthalmology", and the description of various types of AI and review for each disease are to be written as sections within each chapter. In addition, as the current structure, this manuscript includes a review of AI itself. Authors' purpose of this manuscript is only to review paper s about ophthalmology. Also from this viewpoint, the entire manuscript needs to

be reconstructed into different chapters. In addition, the section 'Smartphone-based apps using AI in ophthalmology' seems to be an independent chapter, but the difference from Reference 54 (which is itself a review article) should be stated.　For the various AIs and each disease, there is no description of the selection criteria for the papers reviewed. For example, what databases were used, the year (year of articles published?) range, and the criteria by which, if any, papers were removed from the review after the search.　The abbreviations 'CML' and 'CM-L' have no written etymology. All abbreviations should have an etymology, as the reader may not an ophthalmologist. It is also not clear whether these two are the same word.　Immediately after the reference, "," and "." are superscripts in many places.　There is an * mark after DWT in the chapter on Dry eye, but the intent is unclear.

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Reviewer's code: 05832146

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Fellow

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: India

Manuscript submission date: 2022-05-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-23 01:31

Reviewer performed review: 2022-07-05 02:17

Review time: 12 Days

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

| Peer-reviewer statements | Peer-Review: [Y] Anonymous   [   ] Onymous |
| | Conflicts-of-Interest: [   ] Yes   [Y] No |

SPECIFIC COMMENTS TO AUTHORS

This review article intends to discuss various aspects of artificial intelligence in Ophthalmology. The author goes through enormous article of the ophthalmology territory, and provide the high quality review comment for readers. I suggested the author can provide the difficult of the ophthalmology in artificial territory, which can provide a route for future research. Moreover, who to apply the AI from research to reality is still the big question in the ophthalmology territory. I also suggest author can provide more information about this issue, which can enrich the manuscript and enhance the impact of research territory.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

| **statements** | Conflicts-of-Interest: [ ] Yes [Y] No |

SPECIFIC COMMENTS TO AUTHORS

This manuscript is a review article on the use of artificial intelligence (AI) for major diseases in the field of ophthalmology. The authors have responded sincerely to the reviewers' suggestions and the manuscript has been greatly improved. I consider it worthy of publication.