PEER-REVIEW REPORT

Name of journal: *World Journal of Transplantation*

Manuscript NO: 88300

Title: Focus on Limbal Stem Cell Deficiency and Limbal Cell Transplantation

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05573818

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-09-19

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-10-07 16:14

Reviewer performed review: 2023-10-08 15:17

Review time: 23 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	[　] Grade A: Excellent　　[Y] Grade B: Good　　　[　] Grade C: Fair [　] Grade D: No scientific significance
Language quality	[　] Grade A: Priority publishing　[　] Grade B: Minor language polishing　[Y] 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 mini review is interesting and meaningful. The authors presented the basic information of limbal stem cell and the clinical characteristics and therapeutic outcomes of limbal stem cell deficiency (LSCD). Specifically, this topic falls squarely within the scope of our journal. However, I have to provide several suggestions.　　1 Title. The title should be changed.　Limbal Stem Cell Deficiency and Limbal Cell Transplantation: current perspectives. The title should be focus and present title was confusing.　2 Abstract. The abstract should be concise. Please delete un-relevant part.　3 Key Words. Yes.　4 Background. Corneal epithelial stem cells (LSCs) reside preferentially in the basal layer of peripheral cornea in the limbal zone[1, 2], we lack a specific marker for those cells, in fact, the methods used for their identification are indirect. Several mistakes, Corneal epithelial stem cells (LSCs)? The sentence was too long. Please reorganize.　5 Methods. Yes.　6 Results. DIAGNOSIS AND STAGING OF LSCD. This part should re-organize. The diagnosis method of LSED is Cytology, confocal Microscopy and AS-OCT. I strongly encourage the author provide the typical pictures of each stage of LSCD with Cytology, confocal Microscopy and AS-OCT detections. b.　In-Vivo Confocal

Microscopy (IVCM)?   7 Discussion. Yes   8 Illustrations and tables. Please provide several figures to better clarify LSCD and diagnosis and treatment ways.   9 Please polish the sentence. Several grammar errors were found in the manuscript.