

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Ophthalmology

ESPS manuscript NO: 12013

Title: Current evidence of pathophysiology of diabetic macular edema: A review

Reviewer code: 00505061

Science editor: Ling-Ling Wen

Date sent for review: 2014-06-18 17:22

Date reviewed: 2014-06-20 22:39

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

In the presented review article the authors give an informative overview of the current knowledge concerning pathogenesis of diabetic macular edema. The manuscript is concise and well structured. I have no corrections. The language needs no revision.

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Ophthalmology

ESPS manuscript NO: 12013

Title: Current evidence of pathophysiology of diabetic macular edema: A review

Reviewer code: 02446204

Science editor: Ling-Ling Wen

Date sent for review: 2014-06-18 17:22

Date reviewed: 2014-07-18 15:10

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

This review is well written, providing concise and updated information about the mechanism of diabetic macular edema (DME). I believe that this review will make a large contribution to an understanding of pathology of DME. Nevertheless, this manuscript requires some revisions before publication in World Journal of Ophthalmology. Major comment 1) In section 3.2., authors explain that the first histological event in diabetic retinopathy is the loss of pericytes; however, there were no comments regarding its mechanism. What is the main reason for pericyte loss? Is it caused by apoptosis, migration or even transformation (as pericyte is considered as the source of mesenchymal stem cells. Crisan M et al., Cell Stem Cell 3, 301-313, 2008)? At least, some suggestions should be described along with a possible molecular basis including the involvement of reactive oxygen species, AGE, high oncotic pressure, Ag-2 and so on. Minor comments 1) In page 3, line 6, "Diabetic Retinopathy." should be rewritten as "Diabetic Retinopathy (DR)" because this abbreviation is used in page 8, line 19 without annotation. 2) In page 3, line 8, "insulin dependent DM patients" should be rewritten as "insulin-dependent DM patients". 3) In page 3, line 16, "in presence of DM" should be rewritten as "in the presence of DM". 4) In page 4, line 9, "retinal pigment epithelial layer" should be rewritten as "retinal pigment epithelial (RPE) layer" because this abbreviation is used in page 8, line 11 without annotation. 5) In page 6, line 20-21, "operate by increasing superoxide formation by the mitochondria" should be rewritten as "co-operate via increasing superoxide formation by the mitochondria". 6) In page 6, line 29, "by stimulation of development of " should be rewritten as "by



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the stimulation of the development of". 7) In page 7, line 3, "become an important treatment target" should be rewritten as "become an important treatment target". 8) In page 8, line 6, "Type 1 carbonic anhydrase enzyme" should be rewritten as "Type 1 carbonic anhydrase (CA)" because this abbreviation is used in page 8, line 7 without annotation.