

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 39396

Title: Circadian dysrhythmia-linked diabetes mellitus: Examining melatonin's roles in prophylaxis and management

Reviewer's code: 03469232

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2018-05-10

Date reviewed: 2018-05-12

Review time: 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The review entitled "Circadian rhythm dysregulation and diabetes mellitus: exploring melatonin's potential roles in prophylaxis or treatment" summarize the current evidence showing significant associations between circadian rhythm and diabetes, and speculate a



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role of melatonin in the management of diabetes. This review addresses an intriguing and important issue: however, the reviewer would suggest some revisions to improve the manuscript. 1) The authors focus on economic burden in the treatment of diabetes worldwide in the second and third paragraph of Introduction. However, this part is unrelated to the topic of this review. The reviewer would recommend to delete descriptions regarding economic burden of diabetes management, or show previous studies reporting the association of circadian rhythm and melatonin with cost-effectiveness of the management of diabetes. 2) When discussing the association between circadian rhythm dysregulation and diabetes, the authors should mention about the impact of sleep duration/quality on glycemic control. The reviewer would suggest that the authors add a paragraph concerning sleep and diabetes to the manuscript. 3) The role of gut microbiota in the etiology of diabetes mellitus has been a focus of attention. The authors stated that gut hormones activity is under circadian control on page 16. The reviewer would suggest that the authors investigate whether there is any relationship between gut microbiota and circadian system, and discuss the association of brain-gut axis with melatonin in more detail. Xu et al. [J Pineal Res. 2017 May;62(4).] reported that melatonin may be effective for improving gut microbiota dysbiosis.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- [] The same title
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- [Y] No



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BPG Search:

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[Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 39396

Title: Circadian dysrhythmia-linked diabetes mellitus: Examining melatonin's roles in prophylaxis and management

Reviewer's code: 03833183

Reviewer's country: United States

Science editor: Fang-Fang Ji

Date sent for review: 2018-05-18

Date reviewed: 2018-05-19

Review time: 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Well written review. It will be nice if the authors can put a figure outlining the relationship between circadian rhythm changes and its relationship to DM.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

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