

## Authors' responses to peer-review report

### ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**ESPS manuscript NO:** 26922

**Title:** Sleep, circadian dysrhythmia, obesity and diabetes

**Reviewer's code:** 00006604

**Reviewer's country:** Argentina

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-05-03 10:26

**Date reviewed:** 2016-05-18 01:41

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

### COMMENTS TO AUTHORS

The MS "Sleep, circadian dysrhythmia, obesity, and diabetes" is on a hot topic of research. This reviewer found the MS interesting but the citation of the literature should be more comprehensive as it ignores important pieces of antecedents, most of them seminal works in this area. I.e, experimental models of circadian rhythm disruption show metabolic disturbances following seminal work of Turek et al [1],[2],[3]. After the work of Sookoian et al [4],[5], genetic variants of CLOCK and other circadian genes associated with metabolic syndrome components, in particular, obesity have been identified in humans [6],[7],[8],[9]. Even gene-gene interactions have been described [10],[11] to play a role in the metabolic syndrome components to which rotating shift workers are at risk. The importance of the rotating shift work in this aspect should be further emphasized, for citing a few works, [12],[13],[14],[15],[16],[17]. Language needs polishing as some sentences are difficult to

follow. References 1. Laposky A, Easton A, Dugovic C, Walisser J, Bradfield C, Turek F. Deletion of the mammalian circadian clock gene BMAL1/Mop3 alters baseline sleep architecture and the response to sleep deprivation. *Sleep* 2005; 28: 395-409 [PM:16171284] 2. Turek FW, Joshu C, Kohsaka A, Lin E, Ivanova G, McDearmon E, Laposky A, Losee-Olson S, Easton A, Jensen DR, Eckel RH, Takahashi JS, Bass J. Obesity and metabolic syndrome in circadian Clock mutant mice. *Science* 2005; 308: 1043-1045 [PM:15845877] 3. Turek FW. Circadian clocks: tips from the tip of the iceberg. *Nature* 2008; 456: 881-883 [PM:19092918] 4. Sookoian S, Castano G, Gemma C, Gianotti TF, Pirola CJ. Common genetic variations in CLOCK transcription factor are associated with nonalcoholic fatty liver disease. *World J Gastroenterol* 2007; 13: 4242-4248 [PM:17696255] 5. Sookoian S, Gemma C, Gianotti TF, Burgueno A, Castano G, Pirola CJ. Genetic variants of Clock transcription factor are associated with individual susceptibility to obesity. *Am J Clin Nutr* 2008; 87: 1606-1615 [PM:18541547] 6. Mariman EC, Bouwman FG, Aller EE, van Baak MA, Wang P. Extreme obesity is associated with variation in genes related to the circadian rhythm of food intake and hypothalamic signaling. *Physiol Genomics* 2015; 47: 225-231 [PM:25805767] 7. Dashti HS, Follis JL, Smith CE, Tanaka T, Cade BE, Gottlieb DJ, Hruby A, Jacques PF, Lamon-Fava S, Richardson K, Saxena R, Scheer FA, Kovanen L, Bartz TM, Peralta MM, Jonsson A, Frazier-Wood AC, Kalafati IP, Mikkila V, Partonen T, Lemaitre RN, Lahti J, Hernandez DG, Toft U, Johnson WC, Kanoni S, Raitakari OT, Perola M, Psaty BM, Ferrucci L, Grarup N, Highland HM, Rallidis L, Kahonen M, Havulinna AS, Siscovick DS, Raikonen K, Jorgensen T, Rotter JI, Deloukas P, Viikari JS, Mozaffarian D, Linneberg A, Seppala I, Hansen T, Salomaa V, Gharib SA, Eriksson JG, Bandinelli S, Pedersen O, Rich SS, Dedoussis G, Lehtimäki T, Ordovas JM. Habitual sleep duration is associated with BMI and macronutrient intake and may be modified by CLOCK genetic variants. *Am J Clin Nutr* 2015; 101: 135-143 [PM:25527757] 8. Garaulet M, Esteban TA, Lee YC, Smith CE, Parnell LD, Ordovas JM. SIRT1 and CLOCK 3111T> C combined genotype is associated with evening preference and weight loss resistance in a behavioral therapy treatment for obesity. *Int J Obes (Lond)* 2012; 36: 1436-1441 [PM:22310473] 9. Allebrandt KV, Teder-Laving M, Akyol M, Pichler I, Muller-Myhsok B, Pramstaller P, Merrow M, Meitinger T, Metspalu A, Roenneberg T. CLOCK gene variants associate with sleep duration in two independent populations. *Biol Psychiatry* 2010; 67: 1040-1047 [PM:20149345] 10. Sookoian S, Gemma C, Gianotti TF, Burgueno A, Alvarez A, Gonzalez CD, Pirola CJ. Serotonin and serotonin transporter gene variant in rotating shift workers. *Sleep* 2007; 30: 1049-1053 [PM:17702275] 11. Sookoian S, Gianotti TF, Burgueno A, Pirola CJ. Gene-gene interaction between serotonin transporter (SLC6A4) and clock modulates t

Thank you for bringing to attention key original work.

All the citations have been incorporated in the manuscript; the 10 references are given in red font in the manuscript

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**ESPS manuscript NO:** 26922

**Title:** Sleep, circadian dysrhythmia, obesity and diabetes

**Reviewer's code:** 01482015

**Reviewer's country:** Taiwan

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-05-03 10:26

**Date reviewed:** 2016-05-20 09:16

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

### COMMENTS TO AUTHORS

Dear Editor: The review paper was well written. There were only few errors in words spelling. Please revised them before acceptance.

Thank you

The suggested spelling errors were corrected

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**ESPS manuscript NO:** 26922

**Title:** Sleep, circadian dysrhythmia, obesity and diabetes

**Reviewer's code:** 00503755

**Reviewer's country:** Japan

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-05-03 10:26

**Date reviewed:** 2016-06-01 17:12

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

## COMMENTS TO AUTHORS

In this manuscript, the authors review the association of sleep and life style with life style-related diseases, such as obesity, diabetes and cardiovascular disease, from a unique viewpoint. Pathogenesis of sleep disturbance-related diseases is discussed from epidemiological, clinical and biological findings. This paper can provide an insight into research in sleep biology and medicine. Minor comment. Model figure(s) that summarize the findings may be helpful for readers.

Thank you

As suggested, a figure (Fig 1) and a table (Table 1) has been added

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**ESPS manuscript NO:** 26922

**Title:** Sleep, circadian dysrhythmia, obesity and diabetes

**Reviewer's code:** 00504345

**Reviewer's country:** Bulgaria

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-05-03 10:26

**Date reviewed:** 2016-06-01 18:54

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	GoogleSearch:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input checked="" type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

## COMMENTS TO AUTHORS

1. Work needs serious revision: mainly scientifically sound and logical reflected the existence of causal connection between sleep-wake cycle disturbance and obesity, insulin resistance, type 2 diabetes, coronary artery disease and malignancies?
2. Many spelling and semantic errors
3. There are many cited articles for which it is necessary to add important information like volume, issue and pages. DOI number is not enough!

Thank you

Language, spelling and semantic errors have been corrected

Citation to the references are given completely (including year, volume, start page and end page); a couple of references did not have these, for which the URL from which it has been downloaded is given