

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 47300

Title: Prospective study of total and various types of vegetables and the risk of metabolic syndrome among children and adolescents

Reviewer's code: 02541960

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Reviewer accepted review: 2019-04-01 01:49

Reviewer performed review: 2019-04-05 02:46

Review time: 4 Days

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 checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" 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 study investigates the relationship between consumption of vegetables and the risk of metabolic syndrome among children and adolescences. The results sound interesting and having valuable data. However, some of the manuscript should be improved before

the consideration of acceptance for the Journal. Major comments 1. In this study, individuals with MetS were excluded at baseline. However, I would like to know about the participants with pre-MetS or those having impaired components of MetS. In Table 1, component of MetS, for instance, systolic blood pressure, FPG, HDL-C (lower) were significantly higher in the group of lowest vegetables consumption. In Table 3, are parameters adjusted for MetS baseline parameters or those 3.6 years later? Please add the description of baseline parameters or 3.6 years later. Taken together, these issues may contribute to the causality. It is possible that individuals with MetS or pre-MetS predispose to consume less amount of vegetables especially allium and green leafy vegetables, which may be a bystander but not a cause for MetS. Therefore, it may be better to add explanations about the possibility. 2. I wonder that the criteria for MetS can differ between child aged 6 yo and adolescent aged 18 yo. Can you divided participants into, for instance, two groups, younger than 10 and older than 9 yo. 3. Other factors including education and incomes are likely to interact the outcomes because dairy consumption substantially differs among quartiles. Minor comments In the Table 1, metabolic syndrome should be described as After 3.6 y MetS. Serum triglyceride should be described as median (interquartile ranges) because of large SE.

INITIAL REVIEW OF THE MANUSCRIPT

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