

## PEER-REVIEW REPORT

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

**Manuscript NO:** 63166

**Title:** Endothelial impairment evaluation by peripheral arterial tonometry in pediatric endocrinopathies: A narrative review

**Reviewer's code:** 03976790

**Position:** Editorial Board

**Academic degree:** DSc, PhD

**Professional title:** Emeritus Professor

**Reviewer's Country/Territory:** France

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-01-29

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2021-02-18 10:41

**Reviewer performed review:** 2021-02-23 19:20

**Review time:** 5 Days and 8 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## **SPECIFIC COMMENTS TO AUTHORS**

Comments on the manuscript: "Endothelial impairment evaluation by peripheral artery tonometry in pediatric endocrinopathies: a narrative review". Several pathologies diagnosed in childhood and adolescence are characterized by endothelial dysfunction increasing a risk of microangiopathic and macroangiopathic deficiency. In order to detect endothelial dysfunction, reactive hyperemia-peripheral artery tonometry (RH-PAT), a non-invasive technique can be used. In this review, the authors provide an analysis of the articles searched in the MEDLINE database between 2015 and 2020 that focus on the detection of endothelial dysfunction. This review is helpful. However, I have a few remarks concerning the presentation of the text. The aim of the study is stated in the paragraph titled "aim" in which the authors wrote: "A comprehensive search of English language articles was performed in the MEDLINE database without using other search filters except the publication interval between 2005 and 2020". It would be useful to clarify why the interval chosen was between 2005 and 2020. The titles of parts need to be developed: - Page 7: for example: "aim of the review" instead of "aim". - Page 7: "DIABETES MELLITUS" could be: "study in pediatric patients with diabetes mellitus". - Page 10: METABOLIC SYNDROME could be: "study in patients with metabolic syndrome". - Page 13: "CANCER SURVIVORS" could be: "endothelial dysfunction in cancer survivors". When an abbreviation is written for the first time in the text, give the complete name. Ex: page 7: BMI (body mass index); page 9: LDL (low density protein), CVD (cardio vascular disease); page 10: IR; page 12: HOMA-IR (Homeostatic model assessment of insulin resistance). Page 9: "Pareyn et al.": number the reference; there are two references (51 and 59) in the reference list. Affect the reference (51, I suppose). Page 10: "adipocytokine" instead "adypocytokine". Page 12: define "RH-PAT" (instead "PAT-RHI") at this page instead page 13. Page 13: remove

“body mass index” and write “(BMI)” instead “body mass index (BMI)” (the abbreviation has already been defined). Figure 1: in the legend, is it “this value” or “these values”? Tables 1, 2 and 3: number each reference in the table and check if they are present in the list of references.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 63166

**Title:** Endothelial impairment evaluation by peripheral arterial tonometry in pediatric endocrinopathies: A narrative review

**Reviewer's code:** 03659796

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-01-29

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2021-02-19 02:41

**Reviewer performed review:** 2021-02-25 14:03

**Review time:** 6 Days and 11 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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## **SPECIFIC COMMENTS TO AUTHORS**

This review summarized the utilization of Endo Peripheral Artery Tonometry 2000 (EndoPAT) assessing Endothelial Dysfunction (ED) in adolescents, conducted by searching and summarizing papers of ED detection through EndoPAT 2000. ED has multiple relations with metabolic syndrome, endocrine dysfunction, cancer, etc. and thus highlights the significance of this review. The perspective theme and the detailed description of related studies in this paper are worthy of affirmation. There are some suggestions as detailed blow. All suggestions are noted in the manuscript file. The manuscript requires minor revision. 1.Spelling mistake in title: the “impariment” should be “impairment”. 2.In the part of Conflict of interest, there is a incomplete word “interes” which should be “interest”. 3.What are the most important papers regarding ED detection mainly talked about? It is suggested to describe your main body of this review in brief and reduce introduction in your abstract. 4.The abstract part did not mention the headline CANCER SURVIVORS as well as ENDOTHELIAL IMPAIRMENTIN PITUITARY DYSFUNCTION. It is suggested to add relevant description. 5.The “are” in the sentence “The early damage negatively affects quality of life and are responsible for morbidity and mortality even at young age” should be “is” . 6.The references are recommended at the end of the part VASCULAR ENDOTHELIUM. Additionally, in the part of ED DETECTION, references are missed in the fourth paragraph. Please check the rest of the review. 7.What’s the meaning of “Several serum inflammatory markers are available to detect ED, sometimes due to insulin resistance” ? What is the relation between insulin resistance and the markers below? Are all of these markers increased in insulin resistance patients? 8.The references are needed in the sentences “In particular... intra- and inter-subject” . 9.As described below, the study of reference no. 51 also had the conclusion of “RHI was significantly lower in patients

group" , but was not included in the references of the conclusive words in the part DIABETES MELLITUS. 10.What does this "they" refer to in "In 1/5 RHI was significantly lower in T1DM males than in females [50]. They had a lower BMI and were less sexually mature" ? The male patients or the female patients? 11.This study were not fit in your criteria of adolescent, but with detailed description with "An interesting study by Heier et al. ... did not correlate to RHI." . What's the significance of describing it? It is suggested to reduce content in this paragraph. 12.As described "Only two studies (not in table) reported "Time to peak" instead of RHI [68,71]." , Why were these two studies excluded? Please explain it concisely. 13.There are several spelling errors. The sentence "an excellent reproducibility" should be "excellent reproducibility" . The "T1D" in "In addition ... untreated group." should be "T1DM". And it should be "resistance" in "In the study of Czipelova et al RHI was not influenced by BMI, but was related with systemic vascular resistances [66]." . A space was missed in "In two studies ... age groups [67]." . There is an extra word in "Other authors ... endothelial function [73,74]." . The "that" should be "which" in "Moreover, RHI was negatively associated with augmentation index, that was higher in patients with NAFLD [75]." A space was missed in "triglycerides(p<0.04)" .