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ESPS PEER REVIEW REPORT

Name of journal: World Journal of Diabetes

ESPS manuscript NO: 11672

Title: Cardiac adipose tissue and its relationship to Diabetes mellitus and Cardiovascular disease

Reviewer code: 00036318

Science editor: Yue-Li Tian

Date sent for review: 2014-05-31 14:49

Date reviewed: 2014-08-13 01:11

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" 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	BPG Search:	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is an excellent and comprehensive Review of the role of cardiac adipose tissue in the pathogenesis of cardiovascular disease in patients with type 2 diabetes. The topic is novel and of great interest. The authors should comment more on the diagnostic modalities for evaluating the presence of cardiac adipose tissue. A few notes on management are also important e.g. how do different antidiabetic agents, statins or diets affect cardiac adipose tissue?



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ESPS PEER REVIEW REPORT

Name of journal: World Journal of Diabetes

ESPS manuscript NO: 11672

Title: Cardiac adipose tissue and its relationship to Diabetes mellitus and Cardiovascular disease

Reviewer code: 00036874

Science editor: Yue-Li Tian

Date sent for review: 2014-05-31 14:49

Date reviewed: 2014-07-16 23:19

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 checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input checked="" 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"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

No comment

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Diabetes

ESPS manuscript NO: 11672

Title: Cardiac adipose tissue and its relationship to Diabetes mellitus and Cardiovascular disease

Reviewer code: 02446204

Science editor: Yue-Li Tian

Date sent for review: 2014-05-31 14:49

Date reviewed: 2014-08-07 14:00

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	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This review is very well written, providing a deeper understanding about the impact of cardiac adipose tissues and its relationship to T2DM and cardiovascular diseases based on profound bibliographical consideration. Moreover, the usage of technical terms including EAT and PAT is very strict, which greatly helps readers to correctly understand the content. I believe that this review will contribute to an advanced understanding of pathophysiology of T2DM-associated cardiovascular diseases. Nevertheless, this manuscript requires minor revisions before publication in World Journal of Diabetes.

1) The sentence in page 6, lines 20-21, "EAT accumulation was seen to strongly correlate with serum fibroblast growth factor 21 (FGF21), a factor associated in patients with T2DM" seems rather difficult for readers to correctly understand its meaning. Serum FGF21 level is elevated in T2DM patients and thus considered as a marker of glucose intolerance; nevertheless, it is also known that FGF21 improves insulin sensitivity and thus thought as a therapeutic target for insulin resistance. Thus, T2DM patients may suffer from relative shortage of FGF21 and an increment in the serum FGF21 levels may indicate an adaptive response to glucose intolerance. Therefore, this sentence should be rewritten, for example, as "EAT accumulation was seen to strongly correlate with serum fibroblast growth factor 21 (FGF21), which is known to improve insulin sensitivity despite an increment in its serum levels in T2DM patients. Thus, excessive EAT in T2DM patients may exert bivalent, unfavorable and adaptive, effects on progression of cardiovascular diseases."

2) In page 6



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line 1, "CAGB" should be rewritten as "Coronary artery bypass grafting (CABG)" to show its non-abbreviated form. 3) In page 6 line 3, "BMI matched controls" should be rewritten as "BMI-matched controls". 4) In page 6 line 14, "NO" should be rewritten as "nitrogen monoxide (NO)" to show its non-abbreviated form. 5) In page 10 line 2, "MESA" should be rewritten as "Multi-Ethnic Study of Atherosclerosis (MESA)" to show its non-abbreviated form. 6) In page 14 line 14 and line 17, "voltage independent PWI" should be rewritten as "voltage-independent PWI".