

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 62492

Title: Role of Insulin and Insulin Resistance in Androgen Excess Disorders

Reviewer's code: 03211792

Position: Peer Reviewer

Academic degree: MD

Professional title: Attending Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2021-01-26

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-01-27 13:17

Reviewer performed review: 2021-01-29 13:15

Review time: 1 Day and 23 Hours

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 Grade E: Do not publish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

The author expressed the role of insulin and insulin resistance in androgenexcess disorders. He concentrated on the possible relationships between insulin resistance, hyperinsulinemia and AEDs. The evidences were excessive and concrete. The points of the study was innovate.

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 62492

Title: Role of Insulin and Insulin Resistance in Androgen Excess Disorders

Reviewer's code: 00069774

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: Turkey

Manuscript submission date: 2021-01-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-27 03:24

Reviewer performed review: 2021-02-14 07:22

Review time: 18 Days and 3 Hours

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 Grade E: Do not publish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

Manuscript described the role of insulin resistance in association with androgen excess, PCOS, hirsutism, congenital adrenal hyperplasia and consideration of treatment modality. Generally, manuscript is well-written and has discussed many aspects of consequences of insulin resistance in inducing excess of androgen production. The review manuscript has some merit to researchers in the field. Some comments are raised for authors to consider for improvement. 1. Although manuscript is divided into several sections, each section is quite long and narrative in nature, such as section “PCOS and insulin resistance” is 8 pages long. The section should be numbered and may further divided into more subsections to help readers to follow. 2. Most of sections in manuscript are narrative and very long, since authors described one by one experiment. These information will be more readable and avoid reiterating in so many places if authors gather the information of each experiment into tables categorized by intervention method, key finding, whatever, and reference. 3. It may be helpful to general readers if most of narrative of describing individual experiment could be written in more succinct and overview of those individual experiments, as each study will be shown on tables already. 4. Authors stated in several places that insulin resistance primarily reduces uptake glucose into liver (apart from skeletal muscle & adipose tissues). There are no good references so far that insulin resistance affect hepatic glucose uptake, as GLUT in the liver cells are insulin independence. Although some papers suggest the presence of GLUT4 in the liver, it does not play major role in hepatic glucose transport. 5. The last paragraph in page 8 continued to page 8 about inflammatory cytokines may be relocated to other section (Insulin and insulin signaling), as it is well fit to other section. 6. Authors may give some information of theca and granulosa cells about their relation of functions before insulin resistance affecting them. 7. In last section of “how to translate in daily practice:” It seems authors giving quite an overstatement



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about requirement of accurate estimation of insulin resistance in order to use insulin sensitizer. Given that metformin is very safe drug. In clinical practice, metformin may be used for trial without some sophisticated lab workout if there is no other causes to concern.