

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Diabetes

ESPS manuscript NO: 13260

Title: Effects of maternal diabetes on placental trophoblast cells

Reviewer code: 00628782

Science editor: Fang-Fang Ji

Date sent for review: 2014-08-14 14:14

Date reviewed: 2014-09-16 19:46

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

COMMENTS TO AUTHORS

This review highlights key aspects of trophoblast specific changes in proliferation, apoptosis and cell cycle genes and proteins on cellular level as a consequence of glucose intolerance during pregnancy. Both animal models and human studies are included. Some parts of the review has to be reworked: 1) Tautology in the title, since trophoblasts are certainly part of the placenta. suggestion: Effects of maternal gestational diabetes on trophoblast functions 2) Rework the abstract by separating results from human and animal studies in order to clarify known differences among species. 3) Change headings within the review: a) GDM related changes in the proliferation of the trophoblast b) Apoptosis of the trophoblast in GDM c) Cell cycle regulation of the trophoblast by GDM 4) Rework: ...the placenta in GDM pregnancies are larger...How is the size of the placenta defined in the cited paper, largeness is just a quantitative expression. 5) Page 6: change villous macrophage to macrophage 6) Page 8: Change sentence in line 18: "similar to the situation in the human placenta...since the message is not clear and understandable.

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Diabetes

ESPS manuscript NO: 13260

Title: Effects of maternal diabetes on placental trophoblast cells

Reviewer code: 00616494

Science editor: Fang-Fang Ji

Date sent for review: 2014-08-14 14:14

Date reviewed: 2014-10-11 17:32

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

COMMENTS TO AUTHORS

Placental health is of prime importance in determining the outcome of pregnancy. Preexisting maternal conditions such as diabetes would have considerable influence in both placental and fetal development. Thus, studies on pregnancy complicated with diabetes, gestational or otherwise, are important in understanding its effect on placenta and fetus. Dr Aires provides a well-balanced introduction on diabetes and placental development in the review titled 'Effects of maternal diabetes on placental trophoblast cells'. Over all the review is well written and current. Minor comments: 1) Could use a flow chart or diagram. 2) Too many references? 3) Regarding the concluding statements: 'are we trying to learn maternal diabetes or placental growth and development in a diabetic situation? Just a 'chicken and egg conundrum? This could be modified. 4) Core tip: This review article focuses on current knowledge about the effects of diabetes on trophoblast function such as proliferation, apoptosis and cell cycle control during placental development in human and rodent animal models. It also briefly discusses some placental pathological findings as a consequence of altered metabolic environment during diabetes.