

Insights in Obstetrics and Gynaecology

Review Report

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Article Title: Adverse Neonatal and Maternal Outcomes Associated With Impaired Glucose Tolerance Below The Threshold for Diagnosis of Gestational Diabetes

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Submission Date: June 03, 2017

Review Status: Revision Required

How to Cite this Report: Franco Antonio Ragusa. Review Report for: Adverse Neonatal and Maternal Outcomes Associated With Impaired Glucose Tolerance Below The Threshold for Diagnosis of Gestational Diabetes [Version 1, Awaiting Peer Review]. *Insights Obstet Gynecol.* (2017) 1: 7.1

Review Report

I appreciated the opportunity to read and comment the manuscript titled "Adverse neonatal and maternal outcomes associated with impaired glucose tolerance below the threshold for diagnosis of gestational diabetes".

I think that the manuscript is interesting. Authors conducted a retrospective chart review with the aim to determine the maternal and perinatal risks associated with impaired glucose tolerance (IGT) below the threshold for diagnosis of gestational diabetes (GDM).

They recruited 235 patients who underwent screening for gestational diabetes at 24-28 weeks' gestation. They identified 121 patients with impaired glucose tolerance (IGT), 59 patients with normal glucose tolerance (NGT) and 55 patients with gestational diabetes (GDM). They found a significant increase risk of preeclampsia, large-for-gestational-age (LGA) and primary cesarean section rate in mothers with IGT compared to mothers with NGT. Additionally, they observed a not statistically significant increase in NICU admission, neonatal hypoglycemia and gestational hypertension, in women with IGT compared with NGT. In women with IGT compared with GDM, they observed an overall increase in the rate of preeclampsia, primary cesarean section, LGA and neonatal hypoglycemia. In women with GDM compared with IGT, they found an increase in NICU admissions and gestational hypertension.

The manuscript is easy to understand also for non-specialized reader. References list appears up to date and appropriate.

I think that purpose of study is interesting, but the study design (retrospective) is weak.

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Anyway, before the acceptance I suggest some minor revisions.

In particular, I suggest a revision of English language, because there are some mistakes. I suggest to specify which type of intervention and management were adopted in the IGT group and GDM group.

In the results section I suggest to report also the number of women and not only percentage. After these minor revisions, I suggest to accept this manuscript.

I have read this submission. I believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.