

Gestational Diabetes Mellitus: Literature Review

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Gestational diabetes mellitus (GDM) is a condition that involves glucose intolerance caused by pregnancy (Ricci et al., 2021). Nine percent of healthy individuals and twenty-nine percent of high-risk groups are diagnosed with gestational diabetes mellitus. Gestational diabetes mellitus (GDM) can impact the mother and the fetus by causing numerous complications (Dairi et al., 2020). Quantitative research on GDM can highlight this pregnancy-induced complication's prevention, maintenance, and complications. A literature review on quantitative analysis comprehensively summarizes previous research on the issue at hand and explains the best way to care for these individuals.

The effect of gestational diabetes mellitus on the chronic villi of human placenta among Saudi Arabian mothers: A quantitative and comparative study.

The authors published this quantitative review of the effects of gestational diabetes mellitus on the function of the placenta in 2020 (Dairi et al., 2020). The article entails the importance of placental function and the effects on the mother and fetus if it is insufficient due to complications. The placenta is the primary connection between mother and fetus; it provides oxygen and nutrients and removes waste products. Specifically, this quantitative study aims to determine how gestation diabetes mellitus impacts the function of the placenta and its adverse effects.

Key Points

The study is quantitative research where the authors studied the effects of GDM on the placental villi. The method used was 84 placenta samples comprising 42 GDM and 42 healthy samples. All samples were studied under the same light microscope to measure specific parameters. The authors found that the measured diabetic placenta villi were lower than those with healthy villi, with a p-value of <0.5 being significant (Dairi et al., 2020). The authors concluded that GDM is associated with fetoplacental circulation and causes multiple complications for the mother and fetus. Overall, this article emphasized the importance of identifying women with GDM and controlling hyperglycemia to improve pregnancy outcomes (Dairi et al., 2020).

Assumptions

The author's assumption of the research article includes the importance of early identification and screening for gestational diabetes mellitus to increase the chance of a healthy pregnancy, labor, and delivery (Dairi et al., 2020). This article focuses on the risk factors, prevention, early detection, and treatment of GDM. The authors emphasize that if these parameters are in place and the mother is doing all these things, the chance for a healthy pregnancy and fetus increases significantly.

Deficit/Conclusion

This student does accept the author's line of reasoning due to the moderate evidence supporting their conclusion. The authors indicated that more parameters should be studied to cover this vast topic. The implications of this article can result in better prevention of GDM and

treatment of mothers already diagnosed. Knowing the effects of GDM on placental sufficiency improves the knowledge of patients and healthcare workers to improve the outcome.

Second article title here

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Key Points

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Assumptions

Paragraph goes here discussing the assumptions of the article. Follow the MEAL paragraph formatting and use Grammarly.com.

Deficit/Conclusion

Paragraph goes here discussing the conclusion of the article. Follow the MEAL paragraph formatting and use Grammarly.com. Do you accept the authors' line of reasoning? What are the implications for this article? If nursing fails to accept this line of reasoning, what would the implications be?

Third article title here

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Key Points

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Assumptions

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Deficit/Conclusion

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Conclusion

Write a conclusion here in your overall paper. Follow the MEAL paragraph formatting and use Grammarly.com. Provide a summary/conclusion of the analysis of all three articles.

Discuss how the information can improve:

- Patient outcomes
- Nursing practice

- Evidence-based practice/Quality Improvement efforts
- Healthcare as a whole

References

- Dairi, A. S., Himayda, A. S. A., Moulana, A. A. R., Bukhari, H. S. H., Hakeem, O. M., & Elbarrany, W. G. E. A. E. (2020). The effect of gestational diabetes mellitus on the chronic villi of human placenta among Saudi Arabian mothers: A quantitative and comparative study. *Cereus* 12(10), e11130. <https://doi.org/10.7759/cereus.11130>
- Ricci, S. S., Kyle, T., & Carman, S. (2021). *Maternity and pediatric nursing*. Wolters Kluwer.