

عنوان مقاله:

Role of thyroid function tests in the diagnosis of Gestational Diabetes Mellitus: A Systematic Review

محل انتشار:

هشتمین کنفرانس بین المللی بهداشت، درمان و ارتقای سلامت (سال: 1400)

تعداد صفحات اصل مقاله: 25

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خلاصه مقاله:

Background: Gestational Diabetes Mellitus (GDM) is the most common medical complication in the pregnancy that leads to maternal and neonatal complications. Changes in thyroid factors can cause insulin resistance. There is currently controversy over screen method for GDM and one of the things used to diagnose GDM is thyroid function tests. This study aimed to evaluate the role of thyroid function tests in the diagnosis of GDM. Method: Systematic searches of Google Scholar, Scopus, Cochrane Library, PubMed, and Web of Science databases were conducted between ۲۰۱۰ and ۲۰۲۱. The quality of the studies were assessed by using the Newcastle Ottawa Scale checklist. Eventually, ۳۵ studies were included. Results: The results of ۱۳ studies showed a significant relationship between T_۳ and GDM, the significant level of TSH was mentioned in ۱۱ studies, seven studies reported significant level of T_۳ and Anti-TPO, two studies reported the significant levels of T_۳ / T_۴ ratio and Anti-TG, and for TG one study showed a significant relationship. The levels of T_۳, T_۴ and T_۳ / fT_۴ ratio were associated with GDM. Conclusion: The increased FT_۳ level, FT_۳ / FT_۴ ratio, and decreased FT_۴ level showed the most associated with GDM among the thyroid function tests. These factors can be considered as a probable risk factor for GDM. Further research is needed

کلمات کلیدی:

thyroid function tests, Diabetes, Gestational, diagnosis

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