

عنوان مقاله:

Gestational Diabetes Mellitus and Cancer Risk in Pediatrics: A Molecular Pathway and Future Approach

محل انتشار:

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تعداد صفحات اصل مقاله: 8

نویسندگان:

.Parisa Gorjinezhad - Ahvaz Jundishapur University of Medical Science, Ahvaz, Iran

,Mahin Khalilzadeh Seivani - School of medicine, Tabriz University of medical Science, Tabriz

Maede Ghobadi - Department of gynecology and obstructive, Mazandaran University of Medical Science,
.Mazandaran, Iran

Bahareh Shateri Amiri - Assistant Professor of Internal Medicine Department of Internal Medicine, School of Medicine
.Hazrat-e Rasool General Hospital Iran University of Medical Sciences

Noushin Modabber - Shahid Akbarabadi Clinical Research Development Unit (SHACRDU), School of Medicine, Iran
University of Medical Sciences, Tehran, Iran

Parvinsadat Eslamnik - Department of Obstetrics and Gynecology, Imam Sajad Hospital, Yasuj University of Medical
Sciences, Yasuj, Iran

.Zahra Asadikalameh - Department of Gynecology and Obstetrics, Yasuj University of Medical Sciences, Yasuj, Iran

خلاصه مقاله:

Gestational Diabetes Mellitus (GDM) is a condition that affects the physiology of the mother and fetus during pregnancy. In addition, it has been shown that it also plays a role in the occurrence and progression of pediatric cancer. Epigenetic changes are one of the risk factors that affect pediatric cancer. Moreover, hyperinsulinemia and hyperglycemia are among the conditions that can play a role in childhood cancer due to GDM. In many cases, inflammatory factors activate the NF- κ B pathway and lead to inflammation. Furthermore, inhibition of apoptosis inducing factors causes the emergence and proliferation of cancer cells. Also, PI 3 K/AKT, mTOR, STAT/NF- κ B pathways are among the most important pathways involved in the pathogenesis of pediatric cancer. Epigenetic changes, hyperinsulinemia, and hypoglycemia can increase the probability of cancer in children by changing the expression of some genes and signaling pathways. Identifying these pathways can help in the design of treatment strategies and lead to the prevention of cancer and increase the survival of patients.

کلمات کلیدی:

Gestational Diabetes Mellitus,, ,Cancer,, ,pediatric,, ,Mechanism

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