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## **Influence of diet as well as pre- and gestational diabetes mellitus on the development of microflora based on the vaginal swabs**

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**Introduction:** Diabetes mellitus as the main endocrine pathology in pregnancy is associated with the development of an intense inflammatory process and increased insulin resistance. Maternal microbiota is involved in metabolic, immune and general health functions. It also influences the child's microbiome while still in the mother's environment.

**Aim of the study:** The aim of the study was to investigate the scale of the problem related to diabetes in pregnant women and the impact on the development of intestinal and vaginal microbiota.

**Material and methods:** A survey was conducted in women in the puerperium period at the Department of Obstetrics and Perinatology of the Independent Public Clinical Hospital No. 4 in Lublin, Poland. The analysis of their composition of the vaginal microflora was also performed.

**Results:** Maternal diabetes, which is an increasingly common problem in pregnant women, is a factor influencing the development of the gut microflora in the offspring. Diabetic patients presented a specific composition of the vaginal microbiome that may be associated with dysbiosis.

**Conclusion:** The infant's gut microbes and their composition play a key role in the child's metabolic and immune development. Maternal education in the field of proper nutrition and diabetes control may have an impact on the health of future generations from the first day of life.

### **Biography**

Kamila gorczyca is a sixth-year student of medicine at the Medical University of Lublin. Her passions are gynecology and diabetology. She decided to combine her interests and deepen the topic of diabetes in relation to pregnant women, infants and microbiota. The subject of microbiota is very close to my heart, because she know how important it is for the proper development of most of our body systems. Studying the factors influencing the development of microbiota is a very important aspect as it gives us a wealth of information relating to improving the health of society. The research she conducted helps to understand the importance of a proper diet and proper health habits for a child's development.

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