

ABSTRACT

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Title: Vaginal microbiota and its effect in pregnancy

This work was created to summarize the knowledge of the vaginal microbiota in general and also during the pregnancy. The work deals with the description of individual microorganisms naturally occurring in the vaginal environment and their occurrence in the population. Diagnostic methods and techniques used in gynecology for examination of the vaginal environment are also described. The last part describes the antimicrobial treatment and its changes during the pregnancy.

The vaginal microbiota is a diverse ecosystem of every woman that changes during her lifetime with a variety of influences. During the pregnancy, the risk of serious complications, such as premature birth or infections, is significantly increased when the patient is colonized.

If the patient is colonized, it is not possible to definitely determine whether it is a pathological condition or not. Representatives of the genus *Streptococcus*, *Staphylococcus*, *Gardnerella*, *Candida*, *Ureaplasma*, *Mycoplasma* and others are naturally present in the vaginal environment. The pathogen is securely proven mainly by the density of its colonization by means of diagnostic methods and according to other patient's difficulties.

Key words: Vaginal microbiota, pregnancy, resistance