

Morphological Changes in Ovarian and Endometrial Tissues of Pregnant Women with Acute Leukemia

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Abstract: Acute leukemia is a heterogeneous tumor disease of the blood system, which begins when the monoclonic stem cells of the blood-forming tissues undergo tumor proliferation. The primary characteristics of this disease are cell cycle disruption, uncontrolled proliferation, lack of differentiation, and accumulation and spread of pathological cells. Although acute leukemia is relatively rare in pregnant women, it has a significant adverse impact on pregnancy development. The intensity of polychemotherapy and the use of chemotherapeutic drugs affect the duration and outcome of pregnancy.

Purpose of the Study

To elucidate the incidence, risk factors, and morphogenesis and pathomorphological changes in the reproductive organs of women with acute leukemia during pregnancy.

Research Objectives

1. To conduct a clinical-anamnestic and statistical analysis based on autopsy data.
2. To study the degree, pathogenesis, and risk factors of pathomorphology in the ovaries and endometrium of pregnant women with acute leukemia.
3. To investigate the specific morphological and morphometric changes in ovarian and endometrial tissues.

Scientific Novelty of the Research

To establish the morphological changes in the organs of women with acute leukemia during pregnancy, remission induction, and post-treatment relapse prevention. To scientifically substantiate the impact of blast crisis on the structural components of the ovaries and endometrium, as well as the level of its presence in these organs.

Practical Significance of the Research

To reveal the tendency of severe changes and the progression of the disease, including dysplastic anemia, thrombocytopenia, and comorbidities, in cases leading to death due to acute leukemia. To retrospectively and prospectively evaluate the coefficients of morphometric changes, and provide guidelines for diagnosis and treatment.

Conclusion

This research aims to study the morphological changes in ovarian and endometrial tissues of pregnant women with acute leukemia from both scientific and practical perspectives.

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