# REACTIVITY OF THE AUTONOMIC NERVOUS SYSTEM IN PREGNANT WOMEN WITH IRON DEFICIENCY ANEMIA OF MODERATE SEVERITY

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## Abstract

In the Republic of Uzbekistan in scientific and practical obstetrics, pathological processes occurring in the perinatal and postnatal period in pregnant women with iron deficiency anemia, prevention and treatment of their complications remain one of the most pressing problems. Determination of vegetative reactivity in pregnant women with moderate to severe anemia in the first trimester of pregnancy. Depending on the amount of erythrocytes, hemoglobin and blood color in pregnant women with moderate anemia, the Hilbdebrant coefficient and vegetative reactivity were studied using cardiointervalgraphy (KIG). Mixed vegetative reactivity was found in 17 (48%) of pregnant women with moderate iron deficiency anemia, increased sympathetic nervous system reactivity in 11 (36%), and parasympathetic nervous system reactivity in 7 (16%).

**Keywords: -** Moderate severe degree of iron deficiency anemia, vegetative reactivity, cardiovascular system, cardiointervalography, Hildebrant coefficient.

## Introduction:-

In scientific –practical obstetrics in the Republic of Uzbekistan, pathological processes occurring in perenatal and postnatal period in pregnant women with iron deficiency anemia, prevention and treatment of their complications remain one of the acute problems[14.1.12.16.2.13].

The incidence of iron deficiency anemia is of World importance, 30% of 2 billion people, that is, 30% of the population of the world are ill and the number of people with iron deficiency anemia in Europe and Russia is 50-60% of the population within the Caucasian axis[7]. In Uzbekistan, this figure is 16.5% of girls of juvenile age and 50% in women of reproductive age and 80% in women of childbearing age [16].

The failure of electronic transport processes in hypoxic cases caused by iron deficiency anemia is likely to lead to deep metabolic, morphological changes in the body, strong pathological changes in the mother-Star-Child system[10.3]. Prevention of such complications and its correction remain one of the main problems at present [8.6.5.11.4.9]

The purpose of the work.Determination of vegetative reactivity in pregnantwomen with moderate severe anemia in the first three months of pregnancy.Material and style of work. Vegetative reactivity was studied with the help of erythrocytes, hemoglobin content and color index of blood in women with moderate to severe anemia, while vegetative reactivity was studied using Hilbdebrant coefficients,and cardiointervalography (KIG).

The resulting material and its analysis.Diagnosed with iron deficiency anemia of medium severity when examining vegetative reactivity in pregnant women, their age was 6% to the age of 20 years, 21-25% to the age of 54 years, 26-30% to the age of 40 years. Among pregnant women, for the first time in terms of maternity parity, pregnant women accounted for 16 units (56%), while re-pregnant women accounted for 19 units (44%).

Their average body weight is equal to 76,7±5,4 kg, among which The I-II level was semirishlar 12%. Pregnant with iron deficiency anemia early toxicosis was observed in 36 % of women, and pregnancy in the remaining 48% if normal passed, then in 16% cases of obstetric failure were observed. That 16% incision-bearing through the cut-off procedure was ensured. When a general analysis of blood in pregnant women the amount of erythrocytes is 3292308 ±66103,4 t/l($P>0,05$), the amount of hemoglobin while 83,7±0,7 g / l ($P<0,001$), and the color indicator 0,76±0,1 ($P<0,001$) showed.

With moderate severe degree of iron deficiency anemia mixed vegetative reactivity in 17(48 %) of infected pregnant women, an increase in sympathetic nervous system reactivity at 11(36%), while at 7(16%) the predominance of parasympathetic nervous system reactivity was determined. With moderate severe degree of iron deficiency anemia the number of inhalations per minute in 12 (48%) pregnant women infected 17,1±0,3 times ($P>0,05$), the number of heartbeats

81,9±1,4(P<0,01) to the norm the ratio is Yukan yukori, while the Hildebrant coefficient is 4,8±0,1 thus, pregnant women who have a normal course of pregnancy process did not differ from the pointer (P>0,05).

Severe degree of iron deficiency anemia with the help of KIG when vegetative reactivity is studied in pregnant women infected with, temporary indication of the viability of the heart rhythm, the total effectiveness of the administration of the vegetative nervous system SDNNN -42,7±4,7 parasympathetic nervous system management activity RMSSD -43,0±5,0 in the organization, the parasympathetic nervous system of the sympathetic nervous system preference indicator pNN50-25,1±6,4 equal to office weight (P>0,05) normal concentration of pregnant women infected with mild degree of anemia the group with normaadaptive reactivity almost did not differ from the indicator.

Make a mathematical analysis on the functioning of the cardiovascular system

Mo -0,72±0,01(P<0.01), the activity of the management of the sympathetic nervous system was siljigan toward weak activity, while the rate decreased compared to the norm AMO -52.3±3(P<0.05).

Secondary indicative-that is, a vegetative by the order of variational pulsometry reactivity weak sympathetic nervous system silcigan to the side, vegetative equilibrium index IVR-326,6±49,6 (P<0,05), vegetative of heart rhythm indication VPR-8,3±0,0,9(P<0,05), central administration of heart rhythm activity IN -233,±35,4 (P<0,05), functional activity of the sinus node there was an increase in the rate of Norm PAPR-74,8±5,2 (P<0,01). On Spectral Analysis:Administration of cardiac vascular activity absolute activity of the systemitotal-444,0±68,1 (P<0,05), parasympathetic nerve relative management activity of the system HF -91,5±20,0 (P<0,01), to the norm although relatively reduced, metabolic-humoral and sympathetic nerve the activity of the system VLF -192,1±36,5 (P>0,05), vasomotor Center activity LF-160,5±29,5 (P>0,05), sympathetic nervous system and parasympathetic LF/HF-2,4 ±0,6 (P>0,05)while absolute activity balance of the nervous system vegetative, preserved around the organized abnormal pointer there was an increase in reactivity to an invisible level.

## Conclusion

with a moderate severe degree of iron deficiency anemia mixed vegetative reactivity in 17(48 %) of infected pregnant women, an increase in sympathetic nervous system reactivity at 11(36%),

while at 7(16%) the predominance of parasympathetic nervous system reactivity was determined.

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