

PREECLAMPSIA IS A PATHOLOGY THAT LEADS TO COMPLICATIONS FOR THE MOTHER AND FETUS

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Preeclampsia is a complication of the second half of the gestational process (develops no earlier than the 20th week of pregnancy).

This pathology is characterized by an increase in vascular pressure (systolic pressure above 140 mm Hg and/or diastolic pressure above 90 mm Hg), which is combined with the appearance of protein in the urine (proteinuria over 0.3 g in a daily portion of urine). In some pregnant women, preeclampsia may manifest itself as arterial hypertension and symptoms of functional failure of one of the vital organs(kidneys, heart, brain, placenta). As a rule, in this case the obstetric complication proceeds more aggressively. Today, preeclampsia in pregnant women is considered as a result of insufficient invasion of syncytiotrophoblastic villi into the spiral arteries of the uterus. Outside of pregnancy, these vessels have a powerful muscular membrane, which spasms to stop bleeding, in particular menstrual. However, after implantation of the fertilized egg, muscle cells should gradually be replaced by fibrinoid. Such morphofunctional restructuring will contribute to a smooth pregnancy. In pregnant women with preeclampsia, the spiral vessels of the uterus partially retain the muscular membrane. Therefore, in response to the influence of various unfavorable factors (stress, somatic diseases, etc.), they can spasm.

Key words: Preeclampsia, vascular damage, obesity, eclampsia, visual impairment

Local ischemia triggers a cascade of systemic reactions, which are accompanied by the appearance of clinical signs of preeclampsia:

- the formation of vasoconstrictors leads to an increase in blood pressure;
- damage to the vessels of the renal glomeruli leads to an increase in the size of the pores, through which, like through a sieve, protein molecules "slip away";

Types

The concept of mild preeclampsia has been abolished from the classification. From a clinical point of view, in obstetrics it is customary to distinguish between moderate and severe preeclampsia. This gradation determines different approaches to treatment.

• Moderate preeclampsia is an increase in systolic pressure within the limit



140-160 mm Hg and/or diastolic within 90-110 mm Hg in combination with nonmassive proteinuria, which does not exceed 5 g per day. With this course of the disease, prolongation of pregnancy to full-term is possible.

Severe preeclampsia is a rise in pressure above 160 and/or 110 mm Hg, respectively, while the loss of protein in the urine per day exceeds 5 grams. Dysfunction of one of the vital organs or the development of fetal retention syndrome, regardless of the level of proteinuria and the magnitude of the increase in pressure, also indicates a severe course of the disease.

This type of preeclampsia is an indication for urgent delivery, since only the end of the gestation process can interrupt the pathological reactions that have started in the body. Prolongation of pregnancy is fraught with the development of severe complications in both the mother and the fetus.

According to the time of development, preeclampsia is divided into 2 types:

- Early symptoms appear before 34 weeks of gestation.
- Late clinical and laboratory signs are detected after 34 weeks.

Symptoms of preeclampsia

The classic clinical triad of preeclampsia is:

- arterial hypertension to verify this symptom, it is recommended to measure blood pressure at least 2 times in compliance with basic rules;
- proteinuria daily loss of protein molecules in urine more than 0.3 grams
- swelling, but slight swelling of the feet and shins that appears in the evening and goes away in the morning is not considered a pathology.

Subjective symptoms of preeclampsia at the beginning of the development of the pathology are usually absent. Therefore, all pregnant women undergo screening blood pressure measurement at each visit to the antenatal clinic. At each visit to the obstetrician-gynecologist, the woman also takes a general urine test.

is an indication for additional examination and the "Daily proteinuria" analysis.

Signs that may indicate a severe course of preeclampsia may include the following symptoms:

- · headache and visual impairment ("veil" before the eyes, fogginess, "flickering spots");
- nausea and vomiting; pain in the epigastric region;
- pain in the right hypochondrium;
- decreased urine output (less than 0.5 l per day);
- swelling throughout the body, especially if it appears quickly;
- shortness of breath:
- drowsiness:
- difficulty breathing through the nose;

• dry cough.

Severe preeclampsia can at any time, especially if left untreated, develop into eclampsia – a series of convulsive contractions of the muscles of the entire body. The danger of eclampsia is that the spasm of the muscles of the larynx blocks the supply of oxygen. Against the background of developing hypoxia, any vital organ can suffer.

Causes of preeclampsia

The causes of this obstetric complication are still not precisely known. The following may act as predisposing factors:

- chronic kidney disease;
- arterial hypertension that existed before conception;
- other vascular diseases;
- heart pathologies;
- obesity;
- diabetes mellitus;
- age of the pregnant woman (risks are increased in girls under 18 and women over 35);
- family history of preeclampsia;
- carrying 2 or more fetuses;
- antiphospholipid syndrome;
- hereditary coagulopathies.

Treatment of preeclampsia

Depending on the form of the course, preeclampsia is treated at home or in the hospital. Conditions for monitoring preeclampsia without hospitalization:

- · blood pressure is controlled and stably maintained within normal values (below 140/90 mm Hg);
- no significant proteinuria (protein in the urine should be less than <0.3 g/l);
- normal platelet counts and liver enzymes (ALT, AST) in the blood are maintained;
- no signs of fetal growth retardation;
- blood flow is not impaired according to the results of a Doppler study.

If a pregnant woman is diagnosed with moderate preeclampsia, scheduled visits to the doctor are indicated every week.

Treatment for moderate preeclampsia is aimed at correcting arterial pressure. First of all, a diet with limited spicy and salty foods is recommended: this helps reduce the load on the kidneys, reduce swelling and control arterial pressure. If the pressure rises above 140/90 mm Hg, drug therapy is prescribed. If a woman is normally prone to low blood pressure, treatment begins at readings above 130/85 mm Hg.

In chronic hypertension (increased blood pressure above 140/90 mm Hg, which was detected before pregnancy or during the first 20 weeks of pregnancy and persists throughout pregnancy), a combination of 2-3 drugs is usually prescribed. If preeclampsia is severe, magnesium therapy (magnesium preparations, usually in the form of IV drips) is used to prevent or treat seizure

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In case of impaired consciousness and other signs of deterioration of internal organs, artificial ventilation of the lungs may be indicated.

After the 24th week of pregnancy, the doctor may decide on premature delivery. Indications for emergency delivery:

- bleeding from the birth canal;
- suspected premature detachment of a normally located placenta;
- acute hypoxia (oxygen starvation) of the fetus;
- headaches that do not subside with painkillers;
- visual impairment;
- pain in the upper abdomen that does not respond to pain relief;
- nausea and vomiting;
- progressive deterioration of liver or kidney function;
- convulsions (eclampsia);
- blood pressure above 160/110 mm Hg, not amenable to correction with medications;
- pathological changes in blood parameters;
- fetal abnormalities according to CTG data;
- deterioration or cessation of blood flow in the umbilical cord;
- fetal growth retardation;
- oligohydramnios.

Preeclampsia, including its severe form, is not considered an indication for cesarean section if the birth occurs after 32 weeks of pregnancy and is not complicated by other circumstances (for example, impaired blood flow in the umbilical cord). At the same time, during labor, the woman must receive anticonvulsant and antihypertensive therapy. After childbirth, the woman is observed in the intensive care unit for at least 24 hours.

Blood pressure is monitored for 7 days. If the pressure exceeds 140/90 mm Hg, antihypertensive therapy is maintained.

Complications of preeclampsia

Preeclampsia can provoke the development of chronic diseases (including atherosclerosis, diabetes mellitus and other pathologies) or cause disability in the mother or child.

One of the most dangerous complications is eclampsia.

In most cases, the consequences of the pathology are preventable. Regular monitoring of pregnant women and timely treatment can reduce the risk of dangerous complications.

- Most women with preeclampsia have their blood pressure normalized in the first 3-7 days after delivery.
- Preeclampsia is a serious complication that can develop after the 20th week of pregnancy, as well as during labor and the postpartum period.

The pathology is manifested by pressure above 140/90 mm Hg, as well as the appearance of protein in the urine.

- The condition is dangerous because sometimes, against the background of severe forms, eclampsia can begin - a series of convulsions, which is accompanied by loss of consciousness and the development of a coma, cerebral hemorrhage, pulmonary edema, premature placental abruption or other critical disorders.
- Because preeclampsia can occur without obvious symptoms, it is important to have regular diagnostic examinations and tests.

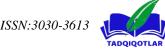
In conclusion, preeclampsia is a serious and complicated disease. Complications of preeclampsia include low birth weight, intracranial hypertension, HELLP syndrome in women, pathological processes in the kidneys, heart and eyes. There are even cases of death from severe complications during childbirth. Therefore, every woman must undergo preventive medical examinations.

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