ABSTRACTS

A. A. Polyanin, I. J. Kogan

Indexes of arterial blood flow in the utero-placental and fetal-placental circulation The aim o/. this study was to asses the normal ranges for S/D ratio and pulsatility index (PI) for umbilical artery (UA), aorta (A), middle cerebral artery (MCA), renal artery (RA) and uterine artery (UtA) during normal pregnancy. Results showed decrease of S/D ratio and PI for UA, UtA from 8 to 40 weeks of gestation and PI for RA from 20 to 40 weeks of gestation. S/D ratio and PI for A was not changed during second half of normal pregnancy. S/D ratio and PI for MCA were increased from 20 to 30 weeks of gestation and after that had tendency of decreasing to term.

Some disputable matters according to the problem o f prematurely labor

were presented in this article.

V. I. Kulakov, V. I. Serov, V. M. Sidelnicova

Prematurely delivery – observation tactics with account to gestation terms

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The role of antiphospholipid antibodies on the pathogenesis of habitual pregnancy loss Clinical and anamnesis analysis as well as analysis o f the course and outcome of the present pregnancy was performed on 595 patients with complicated obstetrical and gynecological history (COGH) – habitual pregnancy loss, inf ertility, genital chronic processes. Control group consisted o f 50 healthy women. Immunofluorescent analysis was used to reved antiphospholipid antibodies on blood plasma. Antiphospholipid antibodies were found in 42% of COGH women. No antiphospholipid antibodies were seen in the control group. In all patients of the studied group the course of pregnancy was accompanied with signs of threatened abortion, gestosis. 29% (p < 0,01) patients had preterm labor and spontaneous abortion occurred in 18% (p < 0,01) o f cases. Perinatal mortality was 9,8% ± 4, 16.

V. M. Sidelnicova, V. V. Sosnina

Common loss of the 1-th three months gestation. observation tactics

> L. A. Samorodinova, T. L. Kormakowa

Abortion pregnant: immunologycal and gormonale aspects The common loss of gestation is a polyetiological complication during pregnancy time, where together with causes and factors of embryo/fetus peril there are destructions of the conjugal reproductive system. Main disturbances due to aborts in early terms are cariotype breakages: chromosome translocations and inversions were revealed in 8,8% of inspected conjugal pairs, "cariotype peculiarities" in 72, 7%, conjugal compatibility according to HLA more 3 antigens was detected in 59,3%. Disturbances of trophoblast invasion processes and placenta f ormation are evident because of hormonal distortions (NLF, hyperandrogeny), autoimmune distortions and chronicle endometritis with high level of anti-inflammatory cytokines. The development of placenta insufficiency in patients with these disturbances leads to pregnancy interruption.

The object o f the research is to study the condition o f humoral and cellular immunity o f pregnant women with imminent and incipient abortion, as well as study the gormonal function o f suncitiotrophoblasts. The study o f immune status o f pregnant with abortion showed the considerable reduction o f suppressor activity and increase o f the activity jf immunity helper unit. Aft ter the completion o f therapy, increase in suppressor activity was mentioned, as well as approach of laboratory figures to the ones o f healthy pregnant women. The study revealed quick reduction of placental lactogen and beta-trophoblastic globulin of pregnant with abortion, retention of low figures of these hormones during the whole period of gestation process. These data should be considered as the appearance of placental deficiency.

> — ЖУРНАЛЪ Акушертва и женскихъ болъзней

I.V. Berlev, E.F. Kira

Role of conditional-pathogenic microscopic flora in the pregnancy loss development The pregnancy loss problem is topical for obstetrical practices nowadays. Last years investigations based on anaerobic bacteriology achievements have changed traditional aspects of these diseases microscopic etiology and in concordance with it on their diagnostics. The new data obtained assert disbiotical disturbances in vagina biological field in pregnancies have influenced on it. Representatives of conditional-pathogenic microscopic flora have the main etiologic significance in it.

The present work aim was studying the role of conditional-pathogenic microscopic flora in pregnancy loss.

N. G. Kosheleva, P. S. Buzurukova, T. P. Vosheva, T. M. Crawl Features Central Blood Circulation at Women with Normal and Pathological Current of Pregnancy Features central blood circulation at 386 women are investigated: 60 healthy not pregnant women, 53 healthy pregnant, 147 women with threat of interruption of pregnancy and 126 with gestosis. Distribution on types of central blood circulation at healthy pregnant differed from healthy not pregnant. The increase of frequency eucinetic blood circulation in 2 times and demotion of frequency hypocinetic blood circulation in 3 times took place.

At development gestosis the increase of frequency hypocinetic blood circulation was observed: at hypostases pregnant - in 3 times, and at nephropathy - in 6 times in comparison with healthy pregnant.

At threat of interruption of pregnancy distribution pregnant on types is similar with not pregnant.

L. B. Zubgitskya., N. G. Kosheleva, O. N. Arganova, T. P. Bespalova, G. L. Gromiko, E. A. Shapovalova, O. V. Tishkevich

Immunomorphological condition of placentas in women with repeated pregnancy losses under action of different antigens The aim of the research was to investigate the pathomorphological changes in placentas of women with recurrent pregnancy losses under action of different injuring stimulus (infection, hormonal, biochemical reactions on membrans of syncytiotrophoblast and endothelium of placental vessels, actions of antiphospholipid antibodies). Identical changes was detected which connected with immune complexes (IC) formation. IC with different composition generate immunopathological processes in placental tissues. Present of antiphospholipid antibodies on placental membranes enhancing immunopathological processes, leading to dystrophic and necrotic lesions in surrounding tissues and to placental insufficiency. The outcome of this lesions is incompetent pregnancy.

Therefore IC may be the marker of placental injury and insufficiency as well as a biologic indicator of failure in reproductive system.

The treatment of threatened abortion is improve pregnancy outcomes and immunomorphological evidence.

E. V. Komlichenko, L. V. Ivanova, E. L. Nezhentseva, L. H. Kim, V. F. Bezhenar

peculiarities of pregnancy interruption in female patients with syphilis One presented in this article the analysis of pregnancy interruption peculiarities in 140 women with various syphilis forms. Peculiarities of the reproductive and social anamnesis were shown in mentioned categories of women. Regularities between syphilis morbidity and indices of reproductive health of women were detected. Elaboration perspective ways of syphilis and pregnancy problem were outlined.

N. A. Masljanuk

The early neonatal period of neonates born after multiple pregnancies after in vitro fertilization In this article are analyzed peculiarities of early postnatal adaptation of 131 neonates born after multiple pregnancies after in vitro fertilization. I was seen that 88,3% of infants had dichorial type of placentation. 64,9% of infants were born prematurely. The frequency of two-fold higher (gestational age 28–32 weeks). The leading place in perinatal pathology belonged to intrauterine chlamidial infection.

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M. N. Kosov

Respiratory insufficiency in premature children

V. A. Kulavsky, L. A. Dautova, E. V. Kulavsky

Medico-social and demographical tendencies in forming of reproductive health

A. M. Savitcheva, M. A. Bashmakova, O. N. Arzhanova, N. G. Kosheleva

Infections in Pregnant Women (diagnosis, treatment, prophylaxis)

U.V. Tsveliov, S.V. Divin

Modern views on cure-diagnostics tactics of pregnancy and delivery observation in women with pelvic traumas and post-traumatic altering support-moving apparatus (literature review)

N. G. Kosheleva, T. A. Pluzhnikova — St. Petersburg centre of the unbearing pregnancy prophylactics and treatment. results of the scietific and practical activity

O. E. Talantova

Particularities of morphogenesis of human fetus brain

Pathology of respiratory system plays a significant role in morbidity and mortality of premature neonates and it means that searching of new and remodeling of existing methods to diagnose and treat respiratory insufficiency (RI) is of particular importance. We evaluated a new method of an early preclinical diagnosis of RI based on using of capnography — assessment of endtidal CO2 concentration, which makes possible to propose a leading pathophysiological mechanism of RI. Using of the gradient between end-tidal and capillary CO2 concentrations helps to predict development of serious ventilation-perfusion mismatch when it exceeds 20 mm Hg. So, in the treatment of RI in neonates individualized therapy should be used, based on the assessment of the leading pathophysiological mechanism.

In the article the medico-social and demographical tendencies in f orming of reproductive health are minutely considered. Among them there are: mass prevalence of little number of children in the family, postponement of the date of the first child's birth, increase of illegitimate birth rate and change of optimal reproductive age coefficients of women groups may be mentioned. Changes of reproductive conduct have the great significance in the organization o f obstetric-gynaecological care. Methods of dispensary observation including psychological training of married couples for delivery demand perfection. Pregnancy and delivery conducting o f women incoming the groups o f high risk o f maternal and perinatal pathology also expects attention.

The article presents a review of new literature and own data resulted f rom a many-years study of infections in pregnant women. Pathogenesis and diagnosis of transplacental inf ections which demand serologic screening, prophylaxis and treatment of pregnant women is discussed. Attention is paid to urogenital infections (chlamydiosis, genital gerpes, candidiasis, trichomoniasis), genital colonization with group B streptococci, mycoplasma, association of different bacteria. Inf ormative methods of laboratory diagnosis and schemes of antibacterial therapy are given.

The modern literature review concerning diagnostic and cure tactics during observation o f pregnancy and delivery in women with pelvic traumas and post-traumatic altering support-moving apparatus is presented in this article. The diagnostic tactics based on the accurate assess of clinical data and on analysis of laboratory and instrumental research methods have been substantiated for estimation o f pregnant woman and f etus conditions with available pelvic injures. It allows make more exact prognosis, select criteria of pregnants for the conservative conduction; establish indices for the operational cure.

The results of the twelve-year work of the St. Petersburg Center for the Prevention and Treatment of Miscarriage (NB) have been summed up. During this time, 6755 women, 2856 pregnant women and 3899 non-pregnant women were observed at the Center. Women suffering from misdiagnosis received a comprehensive comprehensive examination, on the basis of which the prevention and treatment of NB was carried out. This made it possible for women with 100% loss of pregnancies in the past to achieve a decrease in the frequency of spontaneous abortions in 2001 to 7.6% and premature births to 2.7%.

The review is devoted to the basic events o/ human fetal CNS development. The cellular processes o/ two broad phases o/ cerebral morphogenesis - cytogenesis/ histogenesis and differentiation/growth - are described. In this review we also concem the main regressive events in i-he CNS development such as programmed cell death (apoptosis), axonal pruning and synapi-ic elimination. Different environmental factors may effect human brain development even from its early stages causing brain injury that can result in major or minor cerebral malformations. So, the knowledge o/ the main questions o/ fetal brain morphogenesis can help to prevent some abnomalities o/ CNS in the future child development.

V.V. Abramchenko

Mark evaluation scale of gestosis gravity degree

One elaborated the new mark evaluation scale of gestosis gravity degree with use of modern recommendations of the Worldwide health organization (WHO) and International hypertension society (1999) and the Scientific society for studying of arterial hypertonicity in Russian Federation (2000). According to mark sum one distinguishes gestosis of light f orm (0-12 marks), middle gravity gestosis (13-16 marks) and heavy gestosis (17 marks and more ones). Quantitative evaluation scale o f gestosis gravity degree allows unif y gestosis assess, make prognosis of gestosis course and determinate the treatment effectiveness.

V. G. Abashin, Yu. V. Tsveliov

Who was the first obstetrician in Russia?

It is rightly believed that the establishment of scientific obstetrics in our country was facilitated by the opening of "women's schools" (1757), the creation of Educational homes in Moscow (1764) and St. Petersburg (1771), the activities of the first Russian professor and "father of Russian obstetrics" Nestor Maksimovich Maksimovich-Ambodik. However, these transformations and the emergence of a domestic obstetric school could not arise out of nothing, out of nowhere. The basis for them was the activity of foreign and Russian doctors who worked in Russia at the beginning of the 18th century.

T. A. Pluzhnikova

The use of the drug "duphaston" in women with a history of miscarriage to prepare for pregnancy and treat the threat of termination of pregnancy The aim of the study was to evaluat'e the use of the drug duphaston: 1) to prepare for an upcoming pregnancy in women with hyperandrogenism and insufficiency of the luteal phase of the cycle; 2) to treat the threat of termination of pregnancy in women with a history of miscarriage.

The use of duphaston in women suffering from miscarriage has confirmed its high efficiency both in preparation for pregnancy in patients with hyperandrogenism and insufficiency of the luteal phase of the menstrual cycle, and in the treatment of threatened abortion.

In 93.5% of women with a history of 100% fetal loss, it was possible to bring the pregnancy to delivery.