

“Approved“
at methodical meeting of the Department of
obstetrics, gynecology and family planning
Medical Institute of Sumy State University
protocol № _____
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Methodical recommendations

for practical classes of obstetrics and gynecology

Topic: Placental dysfunction, fetal growth retardation, fetal distress during pregnancy and childbirth. Immunological incompatibility of maternal and fetal blood. Anomalies in the development of the fetal egg.

The duration of the lesson – is 6 hours.

Venue: obstetric department, training room.

The purpose and justification of the topic: to deepen students' knowledge on issues of contemporary views on etiology, pathogenesis, clinical features, diagnosis and treatment of placental insufficiency. To master modern methods of diagnosing the condition of the fetus. To deepen students' knowledge on issues of contemporary views on etiology, pathogenesis, clinical features, diagnosis and treatment of fetal distress. He will learn the methods of primary resuscitation of a newborn. Get acquainted with the modern tactics of conducting pregnancy and childbirth with immunological incompatibility of maternal and fetal blood.

The student must know:

- a modern regulatory framework on the topic of the lesson.

The student must be able to:

-decipher cardiotocogram;

- conduct auscultation of the fetus.

Materials and equipment: schemes, tables, Internet resource.

Test questions

1. Determination of fetoplacental insufficiency (FPF).
2. Classification of FPN.
3. The causes of chronic fetoplacental insufficiency (CKDF).
4. Clinic and diagnosis of HFNP.
5. The condition of the newborn with HFPR.
6. Treatment and prevention of CKDF.
7. Antenatal screening.
8. Biophysical profile of the fetus and its diagnostic value.
9. Diagnosis and treatment of fetal growth retardation.
10. Modern principles of pregnancy and childbirth with fetal growth retardation.
11. Methods for assessing the condition of the newborn on the Apgar and Silverman scale.
12. Diagnosis of fetal distress during pregnancy.
13. Diagnosis of fetal distress in the first stage of labor.
14. Diagnosis of fetal distress in the second stage of labor.
15. Treatment of fetal distress during pregnancy and childbirth.
16. Etiology and pathogenesis of isoserological incompatibility of maternal and fetal blood by Rh factor.
17. Diagnosis of the immune conflict by the Rh factor, pregnancy complications, treatment and its prevention.
18. Incompatibility of maternal and fetal blood according to the ABO system (etiology, pathogenesis).
19. Diagnosis of ABO-conflict during pregnancy.
20. Management of newborns with manifestations of ABO-conflict.
21. Bubble drift: classification, clinic, diagnosis, treatment
22. Polyhydramnios: causes, diagnosis, management of pregnancy and childbirth.
23. Oligohydramnios: causes, diagnosis, management of pregnancy and childbirth.

Examples of test control for assessing the final level of knowledge

1. To assess the reactivity of the fetus determine:
 - a) fetal heart rate;
 - b) motor activity of the fetus;
 - c) change in heart rate for different functional tests;
 - d) *everything is correct.*
2. How long does it take to eliminate meconium from amniotic fluid with a live fetus?
 - a) 3-4 hours;
 - b) 24 hours;
 - c) 2 days;
 - d) *4-6 days;*
 - e) more than 6 days.
3. Indicate a reliable sign of fetal distress during childbirth according to CTG.
 - a) acceleration;
 - b) variable decelerations;
 - c) early deceleration;
 - d) *late decelerations.*
4. The monotonous basal rhythm on the cardiogram is an indicator:
 - a) normal reactivity of the fetus;
 - b) maturity of the fetus;
 - c) *chronic fetal hypoxia;*
 - d) acute fetal hypoxia.
5. Pronounced signs of fetal distress according to CTG in the 2nd period of childbirth:
 - a) bradycardia <90 beats. in 1 minute with a head presentation;
 - b) late decelerations with an amplitude of 50-60 beats. in 1 minute;
 - c) tachycardia approximately 200 beats. in 1 minute;
 - d) *everything is correct.*
6. Hemolytic disease of the fetus develops as a result of:
 - a) reactions of the Rh of the fetus with red blood cells of the mother;
 - b) hemolysis of red blood cells of the mother;
 - c) reactions of the mother A antigen with the fetal B antigen;
 - d) *hemolysis of erythrocytes of the fetus.*
7. Hemolytic disease of the fetus cannot develop if:
 - a) *mother A (II) Rh-positive, father O (I) Rh-negative;*
 - b) mother O (I) Rh-positive, father A (II) Rh-positive;
 - c) mother is Rh-negative, father is Rh-positive;
 - d) mother O (I) Rh-negative, father A (II) Rh-negative.
8. What designation does not apply to the Rh factor of a person?
 - a) D;
 - b) A;
 - c) E;
 - d) C.
9. What are the blood type options the frequency of GBN is greatest:
 - a) mother A (II), father O (I);
 - b) mother B (III), father O (I);
 - c) *mother O (I), father A (II);*
 - d) mother O (I), father B (III).
10. From what gestational age have group antigens been detected in red blood cells of an embryo or fetus?
 - a) 3-4 weeks of pregnancy;
 - b) *5-6 weeks of pregnancy;*
 - c) 12-13 weeks of pregnancy;
 - d) 20-25 weeks of gestation.

Technological map

Test (computer) testing Krok 2	1 hour	Class room
Supervising thematic patients, demonstrating practical skills	3 hours	Obstetrical department
Clinical analysis of case histories, situational tasks	1 hour	Class room
Computer testing and interviewing on the topic of the current lesson	1 hour	Class room

Types and forms of control:

- computer testing;
- interview on the topic of the lesson.

Literature (required):

1. Grishchenko V. I. Obstetrics and gynecology: a textbook: in 2 books. Prince 1: Obstetrics / B. I. Grishchenko, N. A. Shcherbina, B. M. Venzkovsky; Edited by: V.I. Grishchenko, N.A. Shcherbina. – Kiev: Medicine, 2012. – 416 p.
2. Zaporozhan, V. N. – Obstetrics and gynecology textbook: in 2 books. Book 1: Obstetrics / B. N. Zaporozhan. Kiev: Health, 2001. - 480 p.
3. Materials of lectures.

Literature (optional):

1. Liewellyn-Jones Derek. Fundamentals of Obstetrics and Gynaecology / Derek Liewellyn-Jones, Jeremy Oats, Suzanne Abraham. – 10-th Edition – Canada : Elsevier Limited, : 2017.
2. Obstetrics & Gynaecology : an Evidence-based Text for the MRCOG / edited by David M. Luesley and Mark D. Kilby. – Boca Raton : Taylor & Francis Group, 2016..
3. "Krok 2": site of the Testing Center at the Ministry of Health of Ukraine [Electronic resource]. - Access mode: <https://www.testcent.org.ua/uK/Krok-2>.