**MINISTRY OF HEALTH СARE, REPUBLIC OF BELARUS**

[**Educational Establishment**](http://www.vsmu.by/en)[**"Vitebsk State Order of Peoples' Friendship Medical Univercity"**](http://www.vsmu.by/en)

[**Department of Obstetrics & Gynaecology**](http://www.vsmu.by/about-vsmu/spisok-kafedr/79-departments/kafedra-infektsionnykh-boleznej/1734-shtat-kafedry.html)

Discussed at a department meeting

Protocol No.8 of February 6, 2025

**METHODOLOGICAL INSTRUCTIONS**

**for conducting practical classes**

**on obstetrics and gynecology**

(name of discipline)

for specialty 1 79 01 01 “General Medicine”

(code and name of specialty)

4th year medical faculty (8th semester)

(course, faculty)

for English-speaking students,

full-time form of education

(form of higher education)

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**THEMATICAL TABLE**

**for the 8th semester**

|  |  |  |
| --- | --- | --- |
| **№** | **Topic according to the curriculum of the educational institution** | **Number of hours** |
| 1. | Complications caused by impaired adaptation to pregnancy. Narrow pelvis | 6 |
| 2 | Bleeding in obstetrics | 6 |
| 3 | Bleeding in obstetrics | 6 |
| 4 | Abnormal uterine action. Birth trauma of mother and fetus | 6 |
| 5 | Operative methods of delivery | 6 |
| 6 | Physiology of the postpartum period. Pathology of the postpartum period | 6 |
|  | **Total** | **36** |

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**on obstetrics and gynecology**

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4th year medical faculty (8th semester)

(course, faculty)

for English-speaking students,

full-time form of education

(form of higher education)

**Topic:** COMPLICATIONS CAUSED BY IMPAIRED ADAPTATION TO PREGNANCY. NARROW PELVIS

**Duration:** 6 hours

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**Motivational characteristics of the need to study the topic:**

Preeclampsia is a dangerous complication of pregnancy that can lead to disability and death of the woman and fetus. Studying this topic makes it possible to identify pregnant women who are at high risk of developing gestosis and take preventive measures, as well as identify signs of preeclampsia in time and start treatment in a timely manner. Understanding the features of the course and management of pregnancy and childbirth in various forms and degrees of anatomically narrow pelvis is necessary to choose the method of delivery and tactics of childbirth, prevention of complications for mother and fetus.

**Educational aims and objectives:**

*Learning objectives:*

To study the symptoms of atypical forms of preeclampsia, their diagnosis, treatment and prevention of complications; to work out an algorithm for emergency medical care for НELLP-syndrome; to study the classification, diagnostic methods and tactics of childbirth in women with a narrow pelvis.

*Developing objectives:*

To contribute to the development of students' skill to generalise the acquired knowledge, conduct analysis, synthesis, comparisons, make necessary conclusions;

to promote the development of technological (abstract, logical, creative) thinking;

to provide conditions for students to master the algorithm of solving problem and research tasks;

to provide conditions for the development of attentiveness, observation and ability to highlight the main thing, evaluation of various processes, phenomena and facts.

*Educational objectives:*

to create conditions to ensure the cultivation of interest in the future profession;

to provide conditions for the formation of conscious discipline and norms of behaviour of students;

to promote the education of thrift and economy;

to create conditions that ensure the development of the desire to observe the rules of safe behaviour;

to encourage students to develop a sense of mutual assistance, tact and responsibility for the assigned work.

In the course of studying the topic of the training session, the student must

**study:**

* definition of atypical forms of preeclampsia, classification of this pathology;
* etiopathogenesis, clinic and diagnosis of atypical forms of preeclampsia with liver damage (НELLP-syndrome, acute fatty liver disease, intrahepatic cholestasis of pregnant women);
* possible complications of preeclampsia for mother and fetus;
* management of pregnancy and childbirth in atypical forms of preeclampsia;
* indications for cesarean section surgery in this pathology;
* medical prevention of complications due to impaired adaptation to pregnancy and rehabilitation of women in the postpartum period;
* biomechanism of childbirth in various forms of pelvic constriction;
* clinic and diagnosis of a clinically narrow pelvis.

**learn:**

* diagnose НELLP-syndrome, acute fatty liver disease, intrahepatic cholestasis of pregnant women, and outline an examination and treatment plan;
* assess the severity of preeclampsia;
* determine indications for early delivery, indications for cesarean section surgery during pregnancy and childbirth;
* Outline a management plan for pregnant women at risk of developing preeclampsia in a antenatal clinic;
* interpret the measurement data of the pelvis and determine the degree of its narrowing;
* to determine the tactics of childbirth and the choice of delivery method with an anatomically narrow pelvis;
* independently work with educational, scientific, normative and reference literature.

**work out:**

* the algorithm of emergency medical care for НELLP-syndrome;
* skills in determining fetal weight by measuring the circumference of the abdomen and the height of the uterine fundus above the pubic joint in pregnant women;
* the skills of measuring the external dimensions of the pelvis.

**Practical skills developed during the lesson, including through the use of simulation learning technologies:**

1. Assessment of the condition of the pregnant woman and the woman in labor;

2. Fetal condition assessment;

3. Providing emergency medical care for НELLP-syndrome;

4. Measuring the external dimensions of the pelvis;

5. The techniques of Vasten and Zangemeister.

**Interdisciplinary connections**

Knowledge, skills, acquired while studying the topic "Complications caused by impaired adaptation to pregnancy. Narrow pelvis " of the academic discipline "Obstetrics and Gynecology" are necessary for the successful study of the following academic disciplines: "Pediatric", "Clinical pharmacology".

**Material and technical equipment:**

Multimedia presentation: "HELLP syndrome, acute fatty liver disease, intrahepatic cholestasis of pregnant women: clinic, diagnosis, treatment." Algorithms for emergency care in atypical forms of preeclampsia. Birth history. Task cards for assessing the initial level of knowledge with response standards, situational tasks, computer tests.

**Control questions:**

1. HELLP syndrome, acute fatty liver, intrahepatic cholestasis of pregnant women: clinical manifestations, diagnosis, complications for mother and fetus, treatment, management; indications for emergency delivery.

2. Anatomically narrow pelvis: definition, classification, diagnostic methods. The course and management of pregnancy and childbirth, indications for cesarean section. Complications for the mother and fetus.

3. Biomechanism of labor in various forms of narrow pelvis, course and management of labor (generally narrow and flat pelvis).

4. Clinically narrow pelvis (cephalopelvic disproportion): causes, diagnosis, management of labor; indications for cesarean section.

**Calculating study time**

|  |  |  |
| --- | --- | --- |
| № | Stage name | Time |
| 1 | Checking present students. | 5 |
| 2 | Introductory speech by the teacher | 20 |
| 3 | Basic knowledge control | 45 |
| 4 | Teaching students practical skills | 45 |
| 5 | Patient supervision | 45 |
| 6 | Monitoring students' learning of practical skills | 45 |
| 7 | Monitoring the assimilation of the lesson topic by analyzing birth histories and solving situational tasks | 45 |
| 8 | Summarizing the lesson results | 20 |
|  | Total class time | 270 |

During the lesson there are 5-10 minute breaks.

**General guidelines:**

The lesson is held in the classroom, the department for women with abnormal pregnancy.

At the beginning of the lesson, the teacher checks the list of students present, explains the aims of the class, answers the questions and conducts control of the level of basic knowledge and readiness of students to work independently with pregnant women.

Students, under the supervision of a teacher, master the algorithm of emergency care for НELLP-syndrome. The phantom works out the measurement of the external dimensions of the pelvis, the biomechanism of childbirth in various forms of anatomically narrow pelvis, and the assessment of Vasten and Zangemeister intake to identify the discrepancy between the size of the pelvis and the fetus. Pregnant women and women in labor suffering from preeclampsia, pregnant women with a narrow pelvis are selected in advance for the teacher's supervision. During the curation, students should pay attention to the features of collecting anamnesis, examination, the use of special, additional examination methods and the interpretation of the data obtained for making a diagnosis, drawing up a plan for childbirth. In the absence of pregnant women and women in labor with preeclampsia, relevant birth histories are selected from the archive, which are studied by students, and then sorted out together with the teacher.

Assessing students’ progress during the class is carried out by interviewing, testing, including computer, solving clinical tasks.

**Questions for students' independent work:**

The lecture "Complications caused by impaired adaptation to pregnancy" (SIW – 1,33 hours) can be found at the link https://do2.vsmu.by/mod/quiz/view.php?id=219945

**The duration of the managed independent work:**

During the semester.

**Forms of controlled independent work control**

The test " Complications caused by impaired adaptation to pregnancy " (SIW – 0,67 hours) can be found at the link <https://do2.vsmu.by/mod/quiz/view.php?id=302125>

**Literature:**

Main:

1. Dutta D. C. Textbook of obstetrics: Including perinatology and contraception: textbook /Calcutta, India: New Central Book Agency (P) Ltd. – 2018. – 659 p.

2. Obstetric and gynecology: practical skills=Акушерство и гинекология: практические навыки: метод реком./ Л.Е.радецкая, Н.И.Киселева, А.Г.Бресский, Т.Н.Мацуганова, О.И.Прусакова. – 2-е изд., перераб и доп. – Витебск: ВГМУ,2020.- 69с.

Additional:

1. Managing complications in pregnancy and childbirth: a guide for midwives and doctors – 2nd ed. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.

2. Murray W. Enkin et al. A guide to effective care in pregnancy and childbirth. Oxford University Press, 3rd Edition, 2000.

3. Obstetrics by Ten Teachers. 20th Edition / Edited by L.C. Kenny, J.E. Myers. ©2017 by Taylor&Francis Group, LLC -uomustansiriyah.edu.iq›media/ attachments/127/127 -21st Edition

Normative legal acts:

1. Об утверждении клинического протокола «Медицинское наблюдение и оказание медицинской помощи женщинам в акушерстве и гинекологии» [Электронный ресурс] : постановление М-ва здравоохранения Республики Беларусь, 19 февр. 2018 г., № 17 : в ред. постановления М-ва здравоохранения Республики Беларусь от 01.04.2022.

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4th year medical faculty (8th semester)

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for English-speaking students,

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(form of higher education)

**Topic:** BLEEDING IN OBSTETRICS

**Duration:** 6 hours

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**Motivational characteristics of the need to study the topic:**

Obstetric hemorrhages are the main cause of maternal mortality. Therefore, knowledge of the causes of bleeding at different stages of pregnancy and childbirth, methods of stopping bleeding and algorithms for replenishing massive blood loss is relevant for a doctor of any specialty.

**Educational aims and objectives:**

*Learning objectives:*

To study the symptoms of obstetric bleeding, their diagnosis, treatment and prevention of complications; to work out an algorithm for providing emergency medical care for bleeding during pregnancy, in the first and second periods of labor.

*Developing objectives:*

To contribute to the development of students' skill to generalise the acquired knowledge, conduct analysis, synthesis, comparisons, make necessary conclusions;

to promote the development of technological (abstract, logical, creative) thinking;

to provide conditions for students to master the algorithm of solving problem and research tasks;

to provide conditions for the development of attentiveness, observation and ability to highlight the main thing, evaluation of various processes, phenomena and facts.

*Educational objectives:*

to create conditions to ensure the cultivation of interest in the future profession;

to provide conditions for the formation of conscious discipline and norms of behaviour of students;

to promote the education of thrift and economy;

to create conditions that ensure the development of the desire to observe the rules of safe behaviour;

to encourage students to develop a sense of mutual assistance, tact and responsibility for the assigned work.

In the course of studying the topic of the training session, the student must

**study:**

* + etiology, pathogenesis, classification, diagnostic methods of bleeding during pregnancy;
  + etiology, pathogenesis, classification, and diagnostic methods of bleeding during childbirth and the early postpartum period;
  + bleeding in early pregnancy;
  + bleeding in late pregnancy, in the first and second periods of labor: placenta previa, premature detachment of the normally located placenta;

**learn:**

* + diagnose bleeding, outline an examination and treatment plan;
  + assess the severity of bleeding;
  + determine indications for early delivery, indications for cesarean section surgery during pregnancy and in the first and second periods of labor with bleeding;
  + deliver through the natural birth canal in women with bleeding;
  + provide emergency care for bleeding;
  + Outline a management plan for pregnant women at risk of bleeding in the antenatal clinic.

**work out:**

* algorithms for providing emergency medical care for bleeding in obstetrics:
* in the early stages of pregnancy;
* in late pregnancy,
* in the first and second periods of labor (placenta previa, premature detachment of the normally located placenta).

**Practical skills developed during the lesson, including through the use of simulation learning technologies:**

1. Assessment of the condition of the woman in labor;

2. Fetal condition assessment;

3. Algorithm of emergency medical care for bleeding during pregnancy, in the first and second periods of labor;

4. Assessment of the volume and severity of bleeding.

**Interdisciplinary connections**

Knowledge, skills, acquired while studying the topic "Bleeding in obstetrics" of the academic discipline "Obstetrics and Gynecology" are necessary for the successful study of the following academic disciplines: "Pediatric", "Clinical pharmacology".

**Material and technical equipment:**

Multimedia presentation: "Bleeding in obstetrics", anatomical model of the postpartum uterus, a model of the afterbirth, a balloon for intrauterine tamponade of the uterus, instruments for examining the cervix after childbirth, tasks and response standards for monitoring the initial level of knowledge, computer tests, situational tasks, birth history.

**Control questions:**

1. Bleeding during pregnancy and childbirth: classification by gestational age, by causes, by volume and rate of blood loss.

2. Bleeding in early pregnancy (incomplete spontaneous abortion, hydatid form mole): causes, clinical manifestations, diagnosis, management.

3. Bleeding in late pregnancy, in the first and second stages of labor (placenta previa, abruption placenta): classification, causes, diagnosis, differential diagnosis, delivery tactics.

**Calculating study time**

|  |  |  |
| --- | --- | --- |
| № | Stage name | Time |
| 1 | Checking present students. | 5 |
| 2 | Introductory speech by the teacher | 20 |
| 3 | Basic knowledge control | 45 |
| 4 | Teaching students practical skills | 45 |
| 5 | Patient supervision | 45 |
| 6 | Monitoring students' learning of practical skills | 45 |
| 7 | Monitoring the assimilation of the lesson topic by analyzing birth histories and solving situational tasks | 45 |
| 8 | Summarizing the lesson results | 20 |
|  | Total class time | 270 |

During the lesson there are 5-10 minute breaks.

**General guidelines:**

The lesson is held in the classroom, the department for women with abnormal pregnancy.

At the beginning of the lesson, the teacher checks the list of students present, explains the aims of the class, answers the questions and conducts control of the level of basic knowledge and readiness of students to work independently with pregnant women.

Students, under the supervision of a teacher, master the algorithm of emergency care for bleeding during pregnancy, in the first and second periods of labor. Pregnant women and women in labor are selected in advance for the supervision. During the curation, students should pay attention to the features of collecting anamnesis, examination, the use of special, additional examination methods and the interpretation of the data obtained for making a diagnosis, drawing up a plan for childbirth.

Assessing students’ progress during the class is carried out by interviewing, testing, including computer, solving clinical tasks.

**Questions for students' independent work:**

The lecture " Bleeding in obstetrics " (SIW – 1,33 hours) can be found at the link https://do2.vsmu.by/mod/quiz/view.php?id=34099

**The duration of the managed independent work:**

During the semester.

**Forms of controlled independent work control**

The test "Bleeding in obstetrics" (SIW – 0,67 hours) can be found at the link <https://do2.vsmu.by/mod/quiz/view.php?id=302125>

**Literature:**

Main:

1. Dutta D. C. Textbook of obstetrics: Including perinatology and contraception: textbook /Calcutta, India: New Central Book Agency (P) Ltd. – 2018. – 659 p.

2. Obstetric and gynecology: practical skills=Акушерство и гинекология: практические навыки: метод реком./ Л.Е.радецкая, Н.И.Киселева, А.Г.Бресский, Т.Н.Мацуганова, О.И.Прусакова. – 2-е изд., перераб и доп. – Витебск: ВГМУ,2020.- 69с.

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Normative legal acts:

1. Об утверждении клинического протокола «Медицинское наблюдение и оказание медицинской помощи женщинам в акушерстве и гинекологии» [Электронный ресурс] : постановление М-ва здравоохранения Республики Беларусь, 19 февр. 2018 г., № 17 : в ред. постановления М-ва здравоохранения Республики Беларусь от 01.04.2022.

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Discussed at a department meeting

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**METHODOLOGICAL INSTRUCTIONS**

**for conducting practical classes**

**on obstetrics and gynecology**

(name of discipline)

for specialty 1 79 01 01 “General Medicine”

(code and name of specialty)

4th year medical faculty (8th semester)

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**Topic:** BLEEDING IN OBSTETRICS

**Duration:** 6 hours

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**Motivational characteristics of the need to study the topic:**

Obstetric hemorrhages are the main cause of maternal mortality. Therefore, knowledge of the causes of development during childbirth and the early postpartum period, methods of stopping bleeding and algorithms for replenishing massive blood loss is relevant for a doctor of any specialty.

**Educational aims and objectives:**

*Learning objectives:*

To study the symptoms of obstetric bleeding, their diagnosis, treatment and prevention of complications; to develop an algorithm for emergency medical care for bleeding in obstetrics, disseminated intravascular coagulation, and amniotic fluid embolism.

*Developing objectives:*

To contribute to the development of students' skill to generalise the acquired knowledge, conduct analysis, synthesis, comparisons, make necessary conclusions;

to promote the development of technological (abstract, logical, creative) thinking;

to provide conditions for students to master the algorithm of solving problem and research tasks;

to provide conditions for the development of attentiveness, observation and ability to highlight the main thing, evaluation of various processes, phenomena and facts.

*Educational objectives:*

to create conditions to ensure the cultivation of interest in the future profession;

to provide conditions for the formation of conscious discipline and norms of behaviour of students;

to promote the education of thrift and economy;

to create conditions that ensure the development of the desire to observe the rules of safe behaviour;

to encourage students to develop a sense of mutual assistance, tact and responsibility for the assigned work.

In the course of studying the topic of the training session, the student must

**study:**

* bleeding in the postpartum and early postpartum periods;
* disseminated intravascular coagulation: clinical picture, treatment methods, prevention, rehabilitation;
* hemorrhagic shock: clinical picture, treatment methods, prevention, rehabilitation;
* amniotic fluid embolism: clinical picture, treatment methods, prevention, rehabilitation.

**learn:**

* diagnose bleeding, outline an examination and treatment plan;
* assess the severity of bleeding;
* provide emergency care for bleeding;
* Substantiating the indications for surgical hemostasis.

**work out:**

* an algorithm for providing emergency medical care for bleeding in the postpartum and early postpartum period;
* algorithm of emergency medical care for hemorrhagic shock;
* algorithm of emergency medical care for amniotic fluid embolism.

**Practical skills developed during the lesson, including through the use of simulation learning technologies:**

1. Assessment of the maternity hospital;

2. Examination of the cervix in mirrors in the early postpartum period;

3. Control manual examination of the uterus,

4. Manual separation and removal of placenta;

5. Assessment of the volume and severity of bleeding;

6. Algorithm of emergency medical care for hemorrhagic shock;

7. Algorithm of emergency medical care for amniotic fluid embolism.

**Material and technical equipment:**

Multimedia presentation: "Bleeding in obstetrics", anatomical model of the postpartum uterus, a model of the afterbirth, a balloon for intrauterine tamponade of the uterus, instruments for examining the cervix after childbirth, tasks and response standards for monitoring the initial level of knowledge, computer tests, situational tasks, birth history.

**Interdisciplinary connections**

Knowledge, skills, acquired while studying the topic "Bleeding in obstetrics" of the academic discipline "Obstetrics and Gynecology" are necessary for the successful study of the following academic disciplines: "Pediatric", "Clinical pharmacology".

**Control questions:**

1. Bleeding in the third stage of labor (Adherent placenta, Placenta accrete): etiology, pathogenesis, clinical features, treatment, methods of stopping bleeding, algorithm for providing emergency care.

2. Bleeding after delivery (retained placenta, disorders in the blood clotting system, injuries to the birth canal, hypotonic and atonic uterine bleeding): etiology, pathogenesis, clinical features, treatment, methods of stopping bleeding, algorithm for providing emergency care.

3. Disseminated intravascular coagulation syndrome, hemorrhagic shock in obstetrics: causes, clinical features, diagnosis, emergency care.

4. Amniotic fluid embolism: risk factors, clinical features, diagnosis, emergency care.

**Calculating study time**

|  |  |  |
| --- | --- | --- |
| № | Stage name | Time |
| 1 | Checking present students. | 5 |
| 2 | Introductory speech by the teacher | 20 |
| 3 | Basic knowledge control | 45 |
| 4 | Teaching students practical skills | 45 |
| 5 | Patient supervision | 45 |
| 6 | Monitoring students' learning of practical skills | 45 |
| 7 | Monitoring the assimilation of the lesson topic by analyzing birth histories and solving situational tasks | 45 |
| 8 | Summarizing the lesson results | 20 |
|  | Total class time | 270 |

During the lesson there are 5-10 minute breaks.

**General guidelines:**

The lesson is held in the classroom, the department for women with abnormal pregnancy.

At the beginning of the lesson, the teacher checks the list of students present, explains the aims of the class, answers the questions and conducts control of the level of basic knowledge and readiness of students to work independently with pregnant women.

Students, under the supervision of a teacher, master practical skills: control manual examination of the uterus, manual separation and removal of placenta; assessment of the volume and severity of bleeding; algorithm for emergency medical care for hemorrhagic shock; algorithm for emergency medical care for amniotic fluid embolism. Pregnant women and women in labor with bleeding are selected in advance for the supervision. During the curation, students should pay attention to the features of collecting anamnesis, examination, the use of special, additional examination methods and the interpretation of the data obtained for making a diagnosis, drawing up a plan for childbirth.

Assessing students’ progress during the class is carried out by interviewing, testing, including computer, solving clinical tasks.

**Questions for students' independent work:**

The lecture " Bleeding in obstetrics " (SIW – 1,33 hours) can be found at the link https://do2.vsmu.by/mod/quiz/view.php?id=34099

**The duration of the managed independent work:**

During the semester.

**Forms of controlled independent work control**

The test "Bleeding in obstetrics" (SIW – 0,67 hours) can be found at the link <https://do2.vsmu.by/mod/quiz/view.php?id=302125>

**Literature:**

Main:

1. Dutta D. C. Textbook of obstetrics: Including perinatology and contraception: textbook /Calcutta, India: New Central Book Agency (P) Ltd. – 2018. – 659 p.

2. Obstetric and gynecology: practical skills=Акушерство и гинекология: практические навыки: метод реком./ Л.Е.радецкая, Н.И.Киселева, А.Г.Бресский, Т.Н.Мацуганова, О.И.Прусакова. – 2-е изд., перераб и доп. – Витебск: ВГМУ,2020.- 69с.

Additional:

1. Managing complications in pregnancy and childbirth: a guide for midwives and doctors – 2nd ed. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.

2. Murray W. Enkin et al. A guide to effective care in pregnancy and childbirth. Oxford University Press, 3rd Edition, 2000.

3. Obstetrics by Ten Teachers. 20th Edition / Edited by L.C. Kenny, J.E. Myers. ©2017 by Taylor&Francis Group, LLC -uomustansiriyah.edu.iq›media/ attachments/127/127 -21st Edition

Normative legal acts:

1. Об утверждении клинического протокола «Медицинское наблюдение и оказание медицинской помощи женщинам в акушерстве и гинекологии» [Электронный ресурс]: постановление М-ва здравоохранения Республики Беларусь, 19 февр. 2018 г., № 17 : в ред. постановления М-ва здравоохранения Республики Беларусь от 01.04.2022.

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(course, faculty)

for English-speaking students,

full-time form of education

(form of higher education)

**Topic:** ABNORMAL UTERINE ACTION. BIRTH TRAUMA OF MOTHER AND FETUS

**Duration:** 6 hours

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**Motivational characteristics of the need to study the topic:**

Knowledge of the types of labor anomalies, methods of their diagnosis and treatment methods allows timely development of tactics for further labor management in order to prevent the development of complications during childbirth and the postpartum period. Birth trauma is one of the causes of bleeding during pregnancy, childbirth, and the postpartum period. In particularly severe cases, such as uterine rupture, it can lead to the death of a woman and fetus and requires immediate medical care.

**Educational aims and objectives:**

*Learning objectives:*

To study the types of labor anomalies, methods of their diagnosis and treatment, issues of obstetric injuries and to master practical skills on this topic.

*Developing objectives:*

To contribute to the development of students' skill to generalise the acquired knowledge, conduct analysis, synthesis, comparisons, make necessary conclusions;

to promote the development of technological (abstract, logical, creative) thinking;

to provide conditions for students to master the algorithm of solving problem and research tasks;

to provide conditions for the development of attentiveness, observation and ability to highlight the main thing, evaluation of various processes, phenomena and facts.

*Educational objectives:*

to create conditions to ensure the cultivation of interest in the future profession;

to provide conditions for the formation of conscious discipline and norms of behaviour of students;

to promote the education of thrift and economy;

to create conditions that ensure the development of the desire to observe the rules of safe behaviour;

to encourage students to develop a sense of mutual assistance, tact and responsibility for the assigned work.

In the course of studying the topic of the training session, the student must

**study:**

* + classification, clinical picture, diagnosis and treatment of labor anomalies;
  + tactics of labor management in case of labor anomalies;
  + indications for cesarean section surgery in this pathology;
  + medical prevention of labor anomalies;
  + classification, clinical picture, diagnosis, differential diagnosis, treatment and prevention of maternal and fetal birth injuries.

**Learn to:**

* identify risk factors for the occurrence of labor anomalies
* interpret cardiotocogram data in order to diagnose labor anomalies and fetal condition;
* formulate a diagnosis;
* draw up a treatment plan, substantiate indications for cesarean section in case of detection of labor anomalies;
* measure the size of the pelvis, determine the estimated weight of the fetus, its position and presentation;
* interpret the medical history, examination, and results of clinical and laboratory examination of patients with a narrow pelvis, large fetus, labor abnormalities, presentation, and fetal position;
* Identify risk factors for maternal and fetal obstetric injuries;
* plan the tactics of childbirth with an anatomically narrow pelvis, a large fetus, with fetal position anomalies;
* make a plan for emergency and emergency medical interventions in case of detection of birth trauma;
* independently work with educational, scientific, normative and reference literature.

**work out:**

* skills in diagnosing labor anomalies;
* skills in determining fetal weight by measuring the circumference of the abdomen and the height of the uterine fundus above the pubic joint in pregnant women;
* methods of external obstetric examination, abdominal auscultation of pregnant women and women in labor with an obstetric stethoscope to determine the fetal heartbeat;
* pelvic measurement skills;
* examination of the birth canal after childbirth.

**Practical skills developed during the lesson, including through the use of simulation learning technologies:**

1. Assessment of the condition of the woman in labor and in the postpartum period;

2. Fetal condition assessment;

3. Interpretation of CTG data;

4. Measuring the external dimensions of the pelvis;

5. Examination of the cervix in mirrors in the early postpartum period;

6. Control manual examination of the uterus.

**Material and technical equipment:**

Multimedia presentation "Obstetric injuries", a model of the postpartum uterus, instruments for examining the cervix after childbirth, an obstetric phantom, a pelvimeter, a dummy female pelvis, tables, a laptop, a multimedia projector, birth histories, tasks and benchmarks for assessing the initial level of knowledge, computer tests, situational tasks.

**Interdisciplinary connections**

Knowledge, skills, acquired while studying the topic "Abnormal uterine action. Birth trauma of mother and fetus" of the academic discipline "Obstetrics and Gynecology" are necessary for the successful study of the following academic disciplines: "Pediatric", "Clinical pharmacology".

**Control questions:**

1. Abnormal uterine action: classification, causes, diagnostic.
2. Normal and pathological premonitory stage, uterine inertia, excessive contraction and incoordinate uterine action.
3. Management of abnormal uterine action, prevention, indications for cesarean section. Complications for mother and fetus.
4. Uterine ruptures: classification, causes, diagnosis, obstetric tactics, prevention
5. Injuries to the external genitalia, vagina and cervix: causes, diagnosis, prevention, treatment.
6. Obstetric fistulas, pubic symphysis diastasis and rupture, postpartum uterine inversion: causes, diagnosis, clinical features, treatment and prevention.
7. Birth trauma to the fetus (cephalohematoma, intracranial hemorrhage, trauma to the skeleton, peripheral and central nervous system, abdominal organs): causes, prevention.
8. Examination of postpartum women for diagnosis of maternal birth injuries, making a diagnosis, drawing up a plan for emergency medical interventions.

**Calculating study time**

|  |  |  |
| --- | --- | --- |
| № | Stage name | Time |
| 1 | Checking present students. | 5 |
| 2 | Introductory speech by the teacher | 20 |
| 3 | Basic knowledge control | 45 |
| 4 | Teaching students practical skills | 45 |
| 5 | Patient supervision | 45 |
| 6 | Monitoring students' learning of practical skills | 45 |
| 7 | Monitoring the assimilation of the lesson topic by analyzing birth histories and solving situational tasks | 45 |
| 8 | Summarizing the lesson results | 20 |
|  | Total class time | 270 |

During the lesson there are 5-10 minute breaks.

**General guidelines:**

The lesson is held in the classroom, the department for women with abnormal pregnancy.

At the beginning of the lesson, the teacher checks the list of students present, explains the aims of the class, answers the questions and conducts control of the level of basic knowledge and readiness of students to work independently with pregnant women.

For the supervision, women in labor, in the postpartum period with injuries to the soft tissues of the birth canal and labor anomalies are selected in advance. During the curation, students should pay attention to the features of collecting anamnesis, examination, the use of special, additional examination methods and the interpretation of the data obtained for making a diagnosis, drawing up a plan for childbirth. In the absence of women in the postpartum period and women in labor with labor anomalies and birth canal injuries, appropriate birth histories are selected from the archive, which are studied by students, and then sorted out together with the teacher.

Assessing students’ progress during the class is carried out by interviewing, testing, including computer, solving clinical tasks.

**Questions for students' independent work:**

The lecture "Birth trauma of mother and fetus" (SIW – 1,33 hours) can be found at the link https://do2.vsmu.by/course/section.php?id=34099

**The duration of the managed independent work:**

During the semester.

**Forms of controlled independent work control**

The test "Birth trauma of mother and fetus" (SIW – 0,67 hours) can be found at the link https://do2.vsmu.by/mod/quiz/view.php?id=82849

**Literature:**

Main:

1. Dutta D. C. Textbook of obstetrics: Including perinatology and contraception: textbook /Calcutta, India: New Central Book Agency (P) Ltd. – 2018. – 659 p.

2. Obstetric and gynecology: practical skills=Акушерство и гинекология: практические навыки: метод реком./ Л.Е.радецкая, Н.И.Киселева, А.Г.Бресский, Т.Н.Мацуганова, О.И.Прусакова. – 2-е изд., перераб и доп. – Витебск: ВГМУ,2020.- 69с.

Additional:

1. Managing complications in pregnancy and childbirth: a guide for midwives and doctors – 2nd ed. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.

2. Murray W. Enkin et al. A guide to effective care in pregnancy and childbirth. Oxford University Press, 3rd Edition, 2000.

3. Obstetrics by Ten Teachers. 20th Edition / Edited by L.C. Kenny, J.E. Myers. ©2017 by Taylor&Francis Group, LLC -uomustansiriyah.edu.iq›media/ attachments/127/127 -21st Edition

Normative legal acts:

1. Об утверждении клинического протокола «Медицинское наблюдение и оказание медицинской помощи женщинам в акушерстве и гинекологии» [Электронный ресурс] : постановление М-ва здравоохранения Республики Беларусь, 19 февр. 2018 г., № 17 : в ред. постановления М-ва здравоохранения Республики Беларусь от 01.04.2022.

**MINISTRY OF HEALTH СARE, REPUBLIC OF BELARUS**

[**Educational Establishment**](http://www.vsmu.by/en)[**"Vitebsk State Order of Peoples' Friendship Medical Univercity"**](http://www.vsmu.by/en)

[**Department of Obstetrics & Gynaecology**](http://www.vsmu.by/about-vsmu/spisok-kafedr/79-departments/kafedra-infektsionnykh-boleznej/1734-shtat-kafedry.html)

Discussed at a department meeting

Protocol No.8 of February 6, 2025

**METHODOLOGICAL INSTRUCTIONS**

**for conducting practical classes**

**on obstetrics and gynecology**

(name of discipline)

for specialty 1 79 01 01 “General Medicine”

(code and name of specialty)

4th year medical faculty (8th semester)

(course, faculty)

for English-speaking students,

full-time form of education

(form of higher education)

**Topic:** OPERATIVE METHODS OF DELIVERY

**Duration:** 6 hours

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**Motivational characteristics of the need to study the topic:**

Surgical methods of delivery are resorted to in the presence of obstetric indications or extragenital diseases that pose a danger to the life and health of the fetus and the woman or a high risk of complications during childbirth through the natural birth canal. The timely application of these methods can reduce the number of maternal deaths and perinatal losses. Vaginal delivery operations (vacuum extraction of the fetus, obstetric forceps) are used to save the life of the fetus and / or the woman in the second period of labor.

**Educational aims and objectives:**

*Learning objectives:*

To study the main types of delivery operations (cesarean section, obstetric forceps, fetus-destroying operations) and master practical skills on this topic.

*Developing objectives:*

To contribute to the development of students' skill to generalise the acquired knowledge, conduct analysis, synthesis, comparisons, make necessary conclusions;

to promote the development of technological (abstract, logical, creative) thinking;

to provide conditions for students to master the algorithm of solving problem and research tasks;

to provide conditions for the development of attentiveness, observation and ability to highlight the main thing, evaluation of various processes, phenomena and facts.

*Educational objectives:*

to create conditions to ensure the cultivation of interest in the future profession;

to provide conditions for the formation of conscious discipline and norms of behaviour of students;

to promote the education of thrift and economy;

to create conditions that ensure the development of the desire to observe the rules of safe behaviour;

to encourage students to develop a sense of mutual assistance, tact and responsibility for the assigned work.

In the course of studying the topic of the training session, the student must

**study:**

* + indications, contraindications, conditions of delivery by cesarean section;
  + prevention of complications in the postoperative period after cesarean section;
  + principles of rehabilitation after surgical delivery;
  + principles of perioperative antibiotic prophylaxis during surgical delivery;
  + indications, contraindications and conditions for the application of obstetric forceps;
  + indications, contraindications and conditions for applying a vacuum extractor;
  + types of fetus-destroying operations;
  + indications and conditions for fetus-destroying operations.

**learn:**

* interpret the medical history, examination, and clinical examination results of patients with a narrow pelvis, large fetus, labor abnormalities, presentation and fetal position, gynecological and extragenital diseases;
* make a surgical intervention plan,
* substantiate the indications for cesarean section, the application of obstetric forceps and a vacuum extractor, and the use of fetus-destroying operations;
* independently work with educational, scientific, normative and reference literature;

**practice:**

* fetal mass determination skills by measuring the circumference of the abdomen and the height of the uterine fundus above the pubic joint in pregnant women;
* methods of external obstetric examination, abdominal auscultation of pregnant women and women in labor with an obstetric stethoscope to determine the fetal heartbeat;
* pelvic measurement skills;
* methods of prevention of complications in the postoperative period.

**Practical skills developed during the lesson, including through the use of simulation learning technologies:**

1. Assessment of the condition of the pregnant woman and the woman in labor;

2. Fetal condition assessment

3. Interpretation of CTG data.

**Material and technical equipment:**

The video "Cesarean section in modern obstetrics", obstetric forceps, vacuum extractor, a set for fetus-destroying operations, obstetric phantom, pelvimeter, a dummy of a female pelvis, tasks and answer standards for monitoring the initial level of knowledge, computer tests, situational tasks, birth history.

**Interdisciplinary connections**

Knowledge, skills, acquired while studying the topic "Operative methods of delivery" of the academic discipline "Obstetrics and Gynecology" are necessary for the successful study of the following academic disciplines: "Pediatric", "Clinical pharmacology".

**Control questions:**

1. Caesarean section: types of operations, indications, contraindications and conditions for the operation, preoperative preparation, anesthesia, management of patients in the postoperative period. Complications in the postoperative period.
2. Pregnancy in women with a uterine scar: assessment of the integrity of the uterine scar and signs of its failure, evidences of scar rupture (or scar dehiscence) during pregnancy and labor, management of a pregnancy and childbirth with prior cesarean delivery.
3. Obstetric forceps: types of obstetric forceps; indications, contraindications, conditions; pain relief methods. Complications during surgery for mother and fetus.
4. Ventouse (vacuum extraction): indications, contraindications, conditions for the operation, technique, complications for the mother and fetus.
5. Destructive operations: indications, contraindications, conditions for the operation, types of operations, complications for the mother.

**Calculating study time**

|  |  |  |
| --- | --- | --- |
| № | Stage name | Time |
| 1 | Checking present students. | 5 |
| 2 | Introductory speech by the teacher | 20 |
| 3 | Basic knowledge control | 45 |
| 4 | Teaching students practical skills | 45 |
| 5 | Patient supervision | 45 |
| 6 | Monitoring students' learning of practical skills | 45 |
| 7 | Monitoring the assimilation of the lesson topic by analyzing birth histories and solving situational tasks | 45 |
| 8 | Summarizing the lesson results | 20 |
|  | Total class time | 270 |

During the lesson there are 5-10 minute breaks.

**General guidelines:**

The lesson is held in the classroom, the department for women with abnormal pregnancy.

At the beginning of the lesson, the teacher checks the list of students present, explains the aims of the class, answers the questions and conducts control of the level of basic knowledge and readiness of students to work independently with pregnant women.

For the supervision, pregnant women with an operational delivery plan are selected in advance, and pregnant women delivered by operative methods. During the curation, students should pay attention to the features of collecting anamnesis, examination, the use of special, additional examination methods and the interpretation of the data obtained for making a diagnosis, drawing up a plan for childbirth. The clinical analysis of supervised patients is carried out in an examination room or a study room together with a teacher, during which the diagnosis is formulated, indications and conditions for surgical delivery are determined, issues of preoperative preparation and management of the postoperative period are discussed.

Assessing students’ progress during the class is carried out by interviewing, testing, including computer, solving clinical tasks.

**Literature:**

Main:

1. Dutta D. C. Textbook of obstetrics: Including perinatology and contraception: textbook /Calcutta, India: New Central Book Agency (P) Ltd. – 2018. – 659 p.

2. Obstetric and gynecology: practical skills=Акушерство и гинекология: практические навыки: метод реком./ Л.Е.радецкая, Н.И.Киселева, А.Г.Бресский, Т.Н.Мацуганова, О.И.Прусакова. – 2-е изд., перераб и доп. – Витебск: ВГМУ,2020.- 69с.

Additional:

1. Managing complications in pregnancy and childbirth: a guide for midwives and doctors – 2nd ed. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.

2. Murray W. Enkin et al. A guide to effective care in pregnancy and childbirth. Oxford University Press, 3rd Edition, 2000.

3. Obstetrics by Ten Teachers. 20th Edition / Edited by L.C. Kenny, J.E. Myers. ©2017 by Taylor&Francis Group, LLC -uomustansiriyah.edu.iq›media/ attachments/127/127 -21st Edition

Normative legal acts:

1. Об утверждении клинического протокола «Медицинское наблюдение и оказание медицинской помощи женщинам в акушерстве и гинекологии» [Электронный ресурс] : постановление М-ва здравоохранения Республики Беларусь, 19 февр. 2018 г., № 17 : в ред. постановления М-ва здравоохранения Республики Беларусь от 01.04.2022.

**MINISTRY OF HEALTH СARE, REPUBLIC OF BELARUS**

[**Educational Establishment**](http://www.vsmu.by/en)[**"Vitebsk State Order of Peoples' Friendship Medical Univercity"**](http://www.vsmu.by/en)

[**Department of Obstetrics & Gynaecology**](http://www.vsmu.by/about-vsmu/spisok-kafedr/79-departments/kafedra-infektsionnykh-boleznej/1734-shtat-kafedry.html)

Discussed at a department meeting

Protocol No.8 of February 6, 2025

**METHODOLOGICAL INSTRUCTIONS**

**for conducting practical classes**

**on obstetrics and gynecology**

(name of discipline)

for specialty 1 79 01 01 “General Medicine”

(code and name of specialty)

4th year medical faculty (8th semester)

(course, faculty)

for English-speaking students,

full-time form of education

(form of higher education)

**Topic:** PHYSIOLOGY OF THE POSTPARTUM PERIOD. PATHOLOGY OF THE POSTPARTUM PERIOD

**Duration:** 6 hours

Compiled by: Head of the Department of Obstetrics and Gynecology, Professor N.I. Kiseleva, Professor of the Department of Obstetrics and Gynecology Radeckaya L.E., Assistant of the Department of Obstetrics and Gynecology Malakhouskaya E.A.

Vitebsk, 2025

**Motivational characteristics of the need to study the topic:**

Knowledge of the features of the course of the early and late postpartum period, possible complications, and the ability to assess a woman's condition after childbirth is necessary for choosing tactics for further management of the postpartum period, preventing the development of complications and their treatment.

**Educational aims and objectives:**

*Learning objectives:*

To study the physiology of the postpartum period and the peculiarities of maternity management. To emphasize the advantage of the mother and newborn staying together, the importance of breastfeeding. To master the principles of diagnosis and treatment of postpartum septic diseases.

*Developing objectives:*

To contribute to the development of students' skill to generalise the acquired knowledge, conduct analysis, synthesis, comparisons, make necessary conclusions;

to promote the development of technological (abstract, logical, creative) thinking;

to provide conditions for students to master the algorithm of solving problem and research tasks;

to provide conditions for the development of attentiveness, observation and ability to highlight the main thing, evaluation of various processes, phenomena and facts.

*Educational objectives:*

to create conditions to ensure the cultivation of interest in the future profession;

to provide conditions for the formation of conscious discipline and norms of behaviour of students;

to promote the education of thrift and economy;

to create conditions that ensure the development of the desire to observe the rules of safe behaviour;

to encourage students to develop a sense of mutual assistance, tact and responsibility for the assigned work.

In the course of studying the topic of the training session, the student must

**study:**

* physiological processes occurring in a woman's body during the postpartum period;
* physiological course and principles of postpartum period management;
* etiology and pathogenesis of postpartum complications;
* classification of postpartum septic diseases, methods of their diagnosis and principles of medical care;
* principles of antibiotic therapy for postpartum purulent-septic diseases.

**Learn to:**

* identify risk factors for postpartum septic diseases;
* conduct a general examination and assess the general condition of the woman during the postpartum period;
* interpret the results of clinical and laboratory examination of woman during the postpartum period;
* independently work with educational, scientific, normative and reference literature.
* provide emergency medical care for infectious septic shock.

**work out:**

* methods for estimating the volume of blood loss in the postpartum period.

**Practical skills developed during the lesson, including through the use of simulation learning technologies:**

1. Assessment of a woman's condition in the postpartum period.

2. The primary toilet of the newborn.

**Material and technical equipment:**

Birth histories, a set for the primary toilet of a newborn, an obstetric phantom with a dummy uterus and afterbirth, an ultrasound device, tasks and standards for monitoring the initial level of knowledge, computer tests, situational tasks, a personal computer.

**Interdisciplinary connections**

Knowledge, skills, acquired while studying the topic "Physiology of the postpartum period. Pathology of the postpartum period" of the academic discipline "Obstetrics and Gynecology" are necessary for the successful study of the following academic disciplines: "Pediatric", "Clinical pharmacology".

**Control questions:**

1. Changes in the body of a postpartum woman in the postpartum period.
2. Clinical course and management of the postpartum period.
3. Principles of breastfeeding.
4. Postpartum purulent-septic diseases: etiology, pathogenesis, Sazonov-Bartels classification, features of the course and principles of treatment.
5. Postpartum ulcer, endometritis, thrombophlebitis, parametritis, pelvioperitonitis, peritonitis, sepsis, infectious-toxic shock: clinical picture, diagnosis, treatment.
6. Postpartum mastitis: classification, clinical picture, diagnosis, principles of treatment.

**Calculating study time**

|  |  |  |
| --- | --- | --- |
| № | Stage name | Time |
| 1 | Checking present students. | 5 |
| 2 | Introductory speech by the teacher | 20 |
| 3 | Basic knowledge control | 45 |
| 4 | Teaching students practical skills | 45 |
| 5 | Patient supervision | 45 |
| 6 | Monitoring students' learning of practical skills | 45 |
| 7 | Monitoring the assimilation of the lesson topic by analyzing birth histories and solving situational tasks | 45 |
| 8 | Summarizing the lesson results | 20 |
|  | Total class time | 270 |

During the lesson there are 5-10 minute breaks.

**General guidelines:**

The lesson is held in the classroom, the department for women with abnormal pregnancy.

At the beginning of the lesson, the teacher checks the list of students present, explains the aims of the class, answers the questions and conducts control of the level of basic knowledge and readiness of students to work independently with pregnant women.

Students, under the supervision of a teacher, master practical skills: the primary toilet of a newborn. During the curation, the teacher draws the students' attention to the assessment of birth history data to determine the risk of postpartum complications, to the examination procedure of the woman in the postpartum period, the interpretation of examination data, analyses and additional research methods when making a diagnosis of postpartum septic complications.

Assessing students’ progress during the class is carried out by interviewing, testing, including computer, solving clinical tasks.

**Questions for students' independent work:**

The lecture "Pathology of the postpartum period" (SIW – 1,33 hours) can be found at the link https://do2.vsmu.by/course/section.php?id=34099

**The duration of the managed independent work:**

During the semester.

**Forms of controlled independent work control**

The test "Pathology of the postpartum period" (SIW – 0,67 hours) can be found at the link <https://do2.vsmu.by/mod/quiz/view.php?id=298798>

**Literature:**

Main:

1. Dutta D. C. Textbook of obstetrics: Including perinatology and contraception: textbook /Calcutta, India: New Central Book Agency (P) Ltd. – 2018. – 659 p.

2. Obstetric and gynecology: practical skills=Акушерство и гинекология: практические навыки: метод реком./ Л.Е.радецкая, Н.И.Киселева, А.Г.Бресский, Т.Н.Мацуганова, О.И.Прусакова. – 2-е изд., перераб и доп. – Витебск: ВГМУ,2020.- 69с.

Additional:

1. Managing complications in pregnancy and childbirth: a guide for midwives and doctors – 2nd ed. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.

2. Murray W. Enkin et al. A guide to effective care in pregnancy and childbirth. Oxford University Press, 3rd Edition, 2000.

3. Obstetrics by Ten Teachers. 20th Edition / Edited by L.C. Kenny, J.E. Myers. ©2017 by Taylor&Francis Group, LLC -uomustansiriyah.edu.iq›media/ attachments/127/127 -21st Edition

Normative legal acts:

1. Об утверждении клинического протокола «Медицинское наблюдение и оказание медицинской помощи женщинам в акушерстве и гинекологии» [Электронный ресурс] : постановление М-ва здравоохранения Республики Беларусь, 19 февр. 2018 г., № 17 : в ред. постановления М-ва здравоохранения Республики Беларусь от 01.04.2022.