

Odesa National Medical University
Faculty of Medicine
Department of Pediatric Surgery
Syllabus of the course "Pediatric surgery"

Volume	2,5 ECTC credits, 75 hours
Term, year	IX, X, XI, XII terms; 5,6 years of study
Days, time, place:	According to the schedule of classes with a cyclical form of training
Contact phone number	098 343 90 84
E-mail:	avm.dok@ukr.net
Workplace	Department of Pediatric Surgery, training rooms
Consultations	Thursday 14: 30-16:00 Saturday 09: 00-13: 00 Consultations and working off of missed classes are carried out according to the schedule of consultations and working off (the schedule can be found at the link https://info.odmu.edu.ua/chair/pediatric_surgery/)

COMMUNICATION

Practical training takes place at MTeams.

Calendar-thematic plans of practical classes and lectures are in the materials of the department in the blog of the ONMedU library: https://info.odmu.edu.ua/chair/pediatric_surgery/. Written assignments will be sent to the Classroom. Send written work to **avm.dok@ukr.net**. Personal meetings during quarantine are not provided.

The tests take place online at MTeams.

COURSE ANNOTATION

The subject of the discipline is pediatric surgery.

Prerequisites: to master the discipline, knowledge, skills and abilities of such disciplines as human anatomy, histology, embryology, microbiology, physiology, operative surgery and topographic anatomy, propedeutics of childhood diseases, childhood infectious diseases and those integrating with these disciplines are needed;

Postrequisites: knowledge, skills and abilities in the discipline of "pediatric surgery" are needed to study pediatrics, surgery, infectious diseases, and resuscitation.

The aim of the "Pediatric Surgery" course is the development of theoretical and practical knowledge on etiology, pathogenesis, typical and atypical clinical manifestations, diagnostic methods, conservative and surgical treatment, rehabilitation of surgical pathology in children within the framework corresponding to the training of a general practitioner, taking into account the peculiarities of his specialty.

Discipline objectives:

1. Determination of treatment tactics for a child with major surgical diseases.
2. Diagnosis of emergency conditions in the clinic of pediatric surgery and the provision of emergency medical care to the child.
3. Identification of various clinical manifestations of complications and the establishment of the primary diagnosis of surgical diseases and injuries in children.

Expected results

As a result of studying the discipline, graduates should be able to:

1. Collect anamnesis, examine the patient, conduct palpation, auscultation, percussion, a description of the objective status and determination of clinical and radiological symptoms in major surgical diseases.
2. Justify the plan of examination and treatment.
3. Draw up a plan of examination and treatment.
4. Determine the indications and contraindications for the operation, the features of the postoperative period.
5. Determine the blood group and Rh factor.

6. Temporarily stop the bleeding.
7. Perform punctures of the pleural cavity, joints in newborns, hematoma, abscess and long bones, measurements of intraosseous pressure.
8. Apply aseptic, burn, and corrective plaster bandages.
9. Perform the opening of the abscess, panaritium, primary surgical treatment of wounds, the imposition and removal of stitches.
10. Conduct a digital examination of the rectum, reviewing it with a mirror, evaluating the data.
11. Provide emergency care for shock, coma, colic, drowning, sudden cardiac arrest, and bleeding.
12. Perform bladder catheterization.
13. Interpret the data of radiographs, blood tests, urine, gastric contents, etc.
14. Prepare medical documentation for surgical patients.
15. Apply Pavlik's stirrups, Gnevkovsky's apparatus, Vilensky's splint.

DESCRIPTION OF THE COURSE

The course will be presented in the form of lectures and practical exercises. On the 5th year in the specialty "General Medicine" 1.5 credits (45 hours), 2 lectures. On the 6th year in the specialty "General Medicine" 1.0 credit (30 hours). During the teaching of the discipline, the following teaching methods are used: lectures, explanations, multimedia presentations, photo assignments, situational teaching, simulation training, oral questioning, testing, individual assignments, independent work with a textbook. Consultations are held individually on days according to the schedule of consultations and workouts.

Content of the discipline:

1. Bleeding from the upper and lower parts of the digestive system.
2. Portal hypertension in children.
3. Acute surgical inflammatory diseases of the abdominal organs.
4. Acquired intestinal obstruction.
5. Polytrauma, injuries. Closed trauma of the chest, abdomen and retroperitoneal space.

6. Features of childhood traumatology.
7. Surgical sepsis. Purulent diseases of the lungs and pleura.
8. Purulent-inflammatory bone diseases.
9. Syndrome of the edematous scrotum.
10. The structure of neoplasms, main clinical syndromes, research algorithm. Benign and malignant neoplasms in children. Tumors and tumor-like vessels, soft tissues, bones. Embryonic tumors (neuroblastomas, Wilms tumor, teratomas).
11. Congenital cysts of the lungs, hypoplasia of the lungs, partial emphysema.
12. Atresia of the esophagus.
13. Diaphragmatic hernia.
14. High and low congenital intestinal obstruction.
15. Congenital liver failure, it is accompanied by jaundice.
16. Anterior abdominal wall.
17. Congenital dislocation of the hip.
18. Congenital clubfoot. Congenital muscle torticollis.

List of recommended literature

Main literature:

1. Pediatric surgery: textbook. manual / A.A Losev, M.H. Melnychenko, I.R. Dilanyan, D.A. Samofalov; ed. A. A. Loseva. -Odesa: ONMedU, 2011 .-- 224 p.
2. Pediatric surgery (Textbook / Grif of the Ministry of Health of Ukraine / Odessa: ONMedU, 2019, 224 p.) Losev O.O., Melnychenko M.G., and others, 7 people
3. Krivchenya D.U., Lysak S.V, Plotnikov A.M. Surgical diseases in children. - Vinnitsa: New book, 2008 .-- 256 p.
4. Pediatric surgery. / Ed. Drying V.I. et al. // K. Health. - 2002 .-- 718 p.
5. Pediatric surgery. Tutorial. Part 2. Ed. Tolstanova O. K., Rybalchenko V. F., Danilova A. A. et al. Zhitomir "POLESIE". - 2016. - p. 225, 322-331

Additional literature:

1. Emergency surgery of the abdominal organs (organization standards and professionally oriented algorithms for the provision of medical care) / Ed. Fomina P.D., Usenko A.U., Bereznitskiy Y.S. - M .: Library "Health of Ukraine", 2018. - 354 p.

2. Age aspects of acute appendicitis in children and the key to its recognition. Tutorial. 2019. 260 p. Ed.: Bodnar B., Rybalchenko V.F., Bodnar O.B., Melnichenko M.H. and others. ISBN 978-966-697-828-1
3. Nedelska S.M. Diseases of the digestive system and pancreas in children. A textbook for 6-year students of the Faculty of Medicine, interns, pediatricians, family doctors / S.M. Nedelska, V. I. Mazur, T. E. Shumnaya. - Zaporozhye: [ZSMU], 2017. - 113 p. Stool disorders in children, constipation and encopresis: Textbook / V.F. Rybalchenko, V.V. Berezhnoy, V.S. Konoplitskiyta others; Ed. prof. V.F. Rybalchenko, V.V. Berezhny, V.S. Konoplitsky, P.S. Rusaka. - M.: LLC "VIT-A-POL", 2018. - 548 p.: Ill.
4. Intestinal malrotation in children from embryogenesis to consequences / Monograph. Edited by: Pereyaslov A.A., Rybalchenko V.F., Losev A.A. - Moscow: LLC "INPOL LTM" Printing house "000000000", 2019. - 226 p: ill.
5. Intestinal obstruction in children: a textbook for 5th year students of medical faculties (specialties: "General Medicine", "Pediatrics"). Spakhi A.V., Barukhovich V.Ya., Kokorkin A.D., Lyaturinskaya A.V., Pakholchuk A.P., Zaporozhchenko A.G. - Zaporozhye. -2015. - 75 p.
6. Malformations in children: teaching aid for independent work of 5th year students of the Faculty of Medicine (specialties "General Medicine", "Pediatrics"). Soloviev A.E., Lyaturinskaya A.V., Barukhovich V.Ya., Spakhi A.V., Shchekin O.V., Makarova N.A., Anikin I.A. Zaporizhzhia, 2013, 165 p.
7. Bachurin V.I. Malformations of the genitourinary organs as a cause of urological pathologies: textbook. For independent work of students of the IV course med. faculty in the specialty 7.12010001 "General Medicine", 7.12010002 "Pediatrics", 6.120102 "Laboratory Diagnostics" / V. I. Bachurin. - Zaporozhye: ZSMU, 2017. - 86 p.
8. Shmakov A.P. Workshop on pediatric surgery: manual / A.P. Shmakov. - Vitebsk, VSMU, 2016. -- 309 p.
9. Makarov A.V. Examination of the respiratory system in children. Study guide. A.V. Makarov, A.A. Danilov, P.P. Sokur, V.F. Rybalchenko, M.I. Yurchenko - M.: SPD Kolyada A.P., 2005. -- 160 p.

ASSESSMENT

Assessment of the current educational activity. The current educational activity of the student is assessed on a 4-point (traditional) scale. At the end of the study of the discipline, the current progress is calculated as the average score of all the marks received by the student on the traditional scale, rounded to 2 (two) decimal digits. The daily assessment of the current educational activity consists of an assessment of writing tests from the KROK 2 database, patient examination protocols, writing a medical history (with virtual distance learning), theoretical protocols, oral answers

during an online practical lesson, interpretation of blood tests, CMP, solving clinical problems.

The mark "excellent" is given if the student knows the content of the lesson and the lecture material in full, giving detailed answers and laying out the material without errors and inaccuracies, freely solves problems and performs practical skills of varying degrees of difficulty.

The mark "good" is given if the student knows the content of the lesson and the lecture material almost in full, giving correct, but not complete answers to the questions. Solves problems and performs practical skills without significant errors.

The mark "satisfactory" is given if the student knows the content of the lesson and the lecture material in full. They don't study the material systematically, but answer the clarifying questions correctly. Solve problems with mistakes and perform practical skills.

The mark "unsatisfactory" is given if the student does not know the content of the lesson and lecture material, solves problems with significant errors and performs practical skills.

A multi-point scale characterizes the actual success of each student in mastering the academic discipline. Conversion of the traditional grade in the discipline into 200 points is carried out by the information and computing center of the university according to the "Contingent" program based on the formula:

Traditional grade	Points
«5»	185 - 200
«4»	151 - 184
«3»	120 - 150

Assessment of individual student assignments. Grade for individual assignments is awarded to a student only if they are successfully completed and supported. The grade is added to the current grades.

Assessment of students' independent work. Independent work of students, which is provided by the topic of the lesson along with classroom work, is assessed during the current control of the topic in the corresponding lesson. The assimilation of topics that are taken out only for independent work is checked during the exam or differential credit. During training, students fill out the CDS notebook (answers to questions, solving situational problems in accordance with the topic for independent analysis).

Final control (exam). Students are admitted to the exam if they have attended all the classroom trainings provided by the curriculum for the discipline, wrote tests on the KROK 2 database (more than 90%), a medical history (for virtual distance learning) and an SRS exercise book. The exam provides an oral answer to a ticket,

in which there are two theoretical questions and one situational task. The examiners are the professor and associate professors of the department, according to an individual schedule. The maximum score is 5.0. The exam is considered completed if the student has received a grade of at least 3.0. The grade for the discipline consists of two components: • 50% - current progress (the arithmetical mean of all the student's grades); • 50% mark on the exam.

COURSE POLICY

Deadline and retakes policy. Students must complete all missed classroom lessons within 2 weeks from the date of absence. For students who have no more than 2 passes without a valid reason, can retake the class within 2 weeks without the permission of the dean. Students who have not completed the missed classes within 2 weeks from the day of admission are not allowed to classes without the permission of the dean of the faculty. Students who have more than 2 absences without a valid reason are not allowed to study and work without the permission of the dean of the faculty. Students who have missed classes for a good reason for more than 2 days can work them according to an individual schedule drawn up by the department and approved by the dean of the faculty. The missed practical lessons are worked out by the student upon presentation of the student card to the teacher on duty according to the schedule of the department work: during the semester - twice a week (on Thursdays and Saturdays - the day of work and consultations). During the semester on Thursday, no more than 1 lesson, on Saturday - no more than 3 (note: Thursday - 14.30-16.00, Saturday - 9.00-13.00). The student has the right only for the period of temporary termination of classroom studies (for the period of distance learning) to work off academic debt without the permission of the dean. The lesson is completed if the student has received a positive mark.

Academic Virtue Policy. Observance of academic virtue by applicants for education provides for: independent fulfillment of educational tasks, tasks of current and final control of learning outcomes; links to sources of information when using ideas, developments, statements, information. It is unacceptable for participants to use prohibited auxiliary materials or technical means (cribs, notes, earpieces, phones, smartphones, tablets, etc.) during control events.

Attendance and late arrivals policy. Attendance at practical classes is compulsory. If a student is late for classes, they can be present at the lesson with a note of their absence on the lesson.

Mobile devices. During the lesson, the use of mobile devices is prohibited.

Audience behavior. In the classroom, the student must behave in accordance with the rules of ethics and conduct defined in the Regulations on the organization of the educational process by applicants for higher education at ONMU and the Regulations on the organization of humanitarian education and educational work at the Odesa National Medical University.

