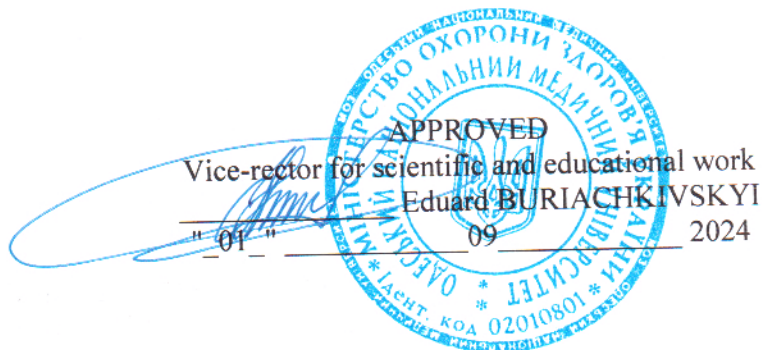


MINISTRY OF HEALTH OF UKRAINE
ODESA NATIONAL MEDICAL UNIVERSITY

Faculty: international
(faculty name)

Department of Pediatrics
(name of department)



METHODICAL RECOMMENDATION
FOR PRACTICAL LESSON
FROM THE EDUCATIONAL COMPONENT

Faculty international, course 6

Educational component "PEDIATRICS"

Approved:

Meeting of the Department of Pediatrics _____

Odesa national medical university

Protocol № 1 of " 29 " 08 2024

Head of the department _____

(signature)

(Mykola ARYAYEV)
(name, surname)

Перезатверджено:

Засідання кафедри педіатрії

Одеський національний медичний університет

Протокол № 1 від 26 08 2025 р.

Завідувач кафедри  Микола АРЯЄВ

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Note. In the case of publication of methodical developments as a self-published work, the academic council of the faculty provides a recommendation for publication in the presence of two reviews, one of which is external — from a reviewer of another institution of higher education.

Practical lessons.**Content module №4 “Differential diagnosis of the most common diseases of the digestive organs in children. Emergency care for major emergencies”.***Practical lesson №43-45***Topic 14. Abdominal pain syndrome in children. Differential diagnosis. Tactics of the doctor.**

Abdominal pain syndrome in children: a problem-oriented approach in pediatrics. Pathophysiology of abdominal pain in children. The main causes of abdominal pain in children. Differential diagnosis of diseases accompanied by abdominal pain syndrome in children. Laboratory and instrumental examinations of children with abdominal pain syndrome. Indications for consultation with a pediatric surgeon. Treatment of abdominal pain syndrome of various genesis in children. Emergency care for life-threatening conditions accompanied by abdominal pain in children.

Differential diagnosis of functional and organic diseases of the stomach and intestines in children.

Leading clinical symptoms and syndromes in functional and organic diseases of the stomach in children (functional dyspepsia, gastroesophageal reflux disease, gastritis, peptic ulcer disease of the stomach and duodenum). Clinical and instrumental examination and differential diagnosis of functional and organic diseases of the stomach in children. Clinical variants of the course of functional and organic diseases of the stomach. Tactics of managing children with functional and organic diseases of the stomach. Emergency care for gastric bleeding. Prevention and dispensary observation of functional and organic diseases of the stomach in children.

Differential diagnosis of functional and organic intestinal diseases in children. Leading clinical symptoms and syndromes in functional and organic intestinal diseases in children (functional diarrhea, disaccharidase deficiency, exudative enteropathy, celiac disease, cystic fibrosis, Crohn's disease, nonspecific ulcerative colitis). Clinical and instrumental examination and differential diagnosis of functional and organic intestinal diseases in children. Clinical variants of the course of functional and organic intestinal diseases. Tactics of managing children with functional and organic intestinal diseases. Prevention and dispensary monitoring of functional and organic intestinal diseases in children. Assessment, classification, treatment, consultation and follow-up for diarrhea, dehydration, presence of blood in stools. Management tactics according to the algorithm of the Integrated Management of Childhood Diseases.

*Practical lesson №46-48***Topic 15. Differential diagnosis of diseases of the hepatobiliary system and pancreas in children. Emergency care for acute liver failure. Portal hypertension syndrome.**

Leading clinical symptoms, syndromes and variants of the course in functional and organic diseases of the hepatobiliary system and pancreas in children (dysfunction of the gallbladder and sphincter of Oddi, acute and chronic cholecystitis, acute and chronic pancreatitis and chronic hepatitis). Data of laboratory and instrumental studies in diseases of the hepatobiliary system and pancreas in children. Differential diagnosis of diseases accompanied by exocrine insufficiency of the pancreas and functional and organic diseases of the hepatobiliary system in children. Treatment of children with functional and organic diseases of the hepatobiliary system and pancreas, correction of exocrine pancreatic insufficiency in children. Providing emergency care for acute liver failure and complications of portal hypertension syndrome. Prevention and dispensary monitoring of diseases of the hepatobiliary system and pancreas in children.

Goal: Acquisition by the applicant of higher education of knowledge and formation of elements of professional competences in the field of pediatrics from the neonatology unit:

*Practical lesson № 43-45***Topic 14. Abdominal pain syndrome in children. Differential diagnosis. Tactics of the doctor.**

Differential diagnosis of functional and organic diseases of the stomach and intestines in children.

Practical lesson № 46-48

Topic 15. Differential diagnosis of diseases of the hepatobiliary system and pancreas in children. Emergency care for acute liver failure. Portal hypertension syndrome.

Basic concepts:

Practical lesson № 43-45

Topic 14. Abdominal pain syndrome in children. Differential diagnosis. Tactics of the doctor. Differential diagnosis. Tactics of the doctor. Differential diagnosis of functional and organic diseases of the stomach and intestines in children.

Abdominal pain syndrome in children: a problem-oriented approach in pediatrics. Pathophysiology of abdominal pain in children. The main causes of abdominal pain in children. Differential diagnosis of diseases accompanied by abdominal pain syndrome in children. Laboratory and instrumental examinations of children with abdominal pain syndrome. Indications for consultation with a pediatric surgeon. Treatment of abdominal pain syndrome of various genesis in children. Emergency care for life-threatening conditions accompanied by abdominal pain in children.

Leading clinical symptoms and syndromes in functional and organic diseases of the stomach in children (functional dyspepsia, gastroesophageal reflux disease, gastritis, peptic ulcer disease of the stomach and duodenum). Clinical and instrumental examination and differential diagnosis of functional and organic diseases of the stomach in children. Clinical variants of the course of functional and organic diseases of the stomach. Tactics of managing children with functional and organic diseases of the stomach. Emergency care for gastric bleeding. Prevention and dispensary observation of functional and organic diseases of the stomach in children.

Differential diagnosis of functional and organic intestinal diseases in children.

Leading clinical symptoms and syndromes in functional and organic intestinal diseases in children (functional diarrhea, disaccharidase deficiency, exudative enteropathy, celiac disease, cystic fibrosis, Crohn's disease, nonspecific ulcerative colitis). Clinical and instrumental examination and differential diagnosis of functional and organic intestinal diseases in children. Clinical variants of the course of functional and organic intestinal diseases. Tactics of managing children with functional and organic intestinal diseases. Prevention and dispensary monitoring of functional and organic intestinal diseases in children. Assessment, classification, treatment, consultation and follow-up for diarrhea, dehydration, presence of blood in stools. Management tactics according to the algorithm of the Integrated Management of Childhood Diseases.

Practical lesson № 46-48

Topic 15. Differential diagnosis of diseases of the hepatobiliary system and pancreas in children. Emergency care for acute liver failure. Portal hypertension syndrome.

Leading clinical symptoms, syndromes and variants of the course in functional and organic diseases of the hepatobiliary system and pancreas in children (dysfunction of the gallbladder and sphincter of Oddi, acute and chronic cholecystitis, acute and chronic pancreatitis and chronic hepatitis). Data of laboratory and instrumental studies in diseases of the hepatobiliary system and pancreas in children. Differential diagnosis of diseases accompanied by exocrine insufficiency of the pancreas and functional and organic diseases of the hepatobiliary system in children. Treatment of children with functional and organic diseases of the hepatobiliary system and pancreas, correction of exocrine pancreatic insufficiency in children. Providing emergency care for acute liver failure and complications of portal hypertension syndrome. Prevention and dispensary monitoring of diseases of the hepatobiliary system and pancreas in children.

Equipment: a child's mannequin, a patient according to the subject of the lesson.

The duration of each lesson is 2 hours.

Plan:

1. Organizational activities (greetings, verification of those present, announcement of the topic, purpose of the lesson, motivation of higher education seekers to study the topic).

2. Control of the reference level of knowledge:

Practical lesson № 46-49

Topic 14. Abdominal pain syndrome in children. Differential diagnosis. Tactics of the doctor. Differential diagnosis of functional and organic diseases of the stomach and intestines in children.

Abdominal pain syndrome in children: a problem-oriented approach in pediatrics. Pathophysiology of abdominal pain in children. The main causes of abdominal pain in children. Differential diagnosis of diseases accompanied by abdominal pain syndrome in children. Laboratory and instrumental examinations of children with abdominal pain syndrome. Indications for consultation with a pediatric surgeon. Treatment of abdominal pain syndrome of various genesis in children. Emergency care for life-threatening conditions accompanied by abdominal pain in children. Leading clinical symptoms and syndromes in functional and organic diseases of the stomach in children (functional dyspepsia, gastroesophageal reflux disease, gastritis, peptic ulcer disease of the stomach and duodenum). Clinical and instrumental examination and differential diagnosis of functional and organic diseases of the stomach in children. Clinical variants of the course of functional and organic diseases of the stomach. Tactics of managing children with functional and organic diseases of the stomach. Emergency care for gastric bleeding. Prevention and dispensary observation of functional and organic diseases of the stomach in children.

Differential diagnosis of functional and organic intestinal diseases in children.

Leading clinical symptoms and syndromes in functional and organic intestinal diseases in children (functional diarrhea, disaccharidase deficiency, exudative enteropathy, celiac disease, cystic fibrosis, Crohn's disease, nonspecific ulcerative colitis). Clinical and instrumental examination and differential diagnosis of functional and organic intestinal diseases in children. Clinical variants of the course of functional and organic intestinal diseases. Tactics of managing children with functional and organic intestinal diseases. Prevention and dispensary monitoring of functional and organic intestinal diseases in children. Assessment, classification, treatment, consultation and follow-up for diarrhea, dehydration, presence of blood in stools. Management tactics according to the algorithm of the Integrated Management of Childhood Diseases.

Practical lesson № 50-52

Topic 15. Differential diagnosis of diseases of the hepatobiliary system and pancreas in children. Emergency care for acute liver failure. Portal hypertension syndrome.

Leading clinical symptoms, syndromes and variants of the course in functional and organic diseases of the hepatobiliary system and pancreas in children (dysfunction of the gallbladder and sphincter of Oddi, acute and chronic cholecystitis, acute and chronic pancreatitis and chronic hepatitis). Data of laboratory and instrumental studies in diseases of the hepatobiliary system and pancreas in children. Differential diagnosis of diseases accompanied by exocrine insufficiency of the pancreas and functional and organic diseases of the hepatobiliary system in children. Treatment of children with functional and organic diseases of the hepatobiliary system and pancreas, correction of exocrine pancreatic insufficiency in children. Providing emergency care for acute liver failure and complications of portal hypertension syndrome. Prevention and dispensary monitoring of diseases of the hepatobiliary system and pancreas in children.

3. Formation of professional skills and abilities (mastery of communication skills, clinical examination, determination of treatment regimen, laboratory research, etc.) mastering skills:

1. Survey, examination and clinical examination of children with functional dyspepsia, gastroesophageal reflux disease, gastritis, peptic ulcer disease of the stomach and duodenum.
2. Evaluation of a children with functional and organic diseases of the stomach.
3. Survey, examination and clinical examination and differential diagnosis of functional and organic diseases of the stomach in children.
4. Evaluation clinical variants of functional and organic diseases of the stomach.

5. Evaluation tactics emergency care for gastric bleeding.
 6. Evaluate prevention and dispensary monitoring of functional and organic diseases of the stomach in children.
 7. Survey, examination and clinical examination of children with functional diarrhea, disaccharidase deficiency, exudative enteropathy, celiac disease, cystic fibrosis, Crohn's disease, nonspecific ulcerative colitis.
 8. Evaluation of a children with functional and organic intestinal diseases.
 9. Evaluation tactics of managing children with functional and organic intestinal diseases.
 10. Evaluate prevention and dispensary monitoring of functional and organic intestinal diseases in children.
 11. Evaluation tactics emergency care for acute liver failure. Portal hypertension syndrome.
 12. Survey, examination and clinical examination of children with dysfunction of the gallbladder and sphincter of Oddi, acute and chronic cholecystitis, acute and chronic pancreatitis and chronic hepatitis.
 13. Survey, examination and clinical examination data of laboratory and instrumental studies in diseases of the hepatobiliary system and pancreas in children.
 14. Evaluation tactics treatment of children with functional and organic diseases of the hepatobiliary system and pancreas, correction of exocrine pancreatic insufficiency in children.
 15. Providing emergency care for acute liver failure and complications of portal hypertension syndrome.
 16. Evaluate prevention and dispensary monitoring of diseases of the hepatobiliary system and pancreas in children.
 17. Solving clinical situational problems, practicing patient examination skills, demonstrating and practicing the skills of performing manipulations according to list, training and practicing skills on simulation dummies, training exercises on the diagnosis of the most common gastro-intestinal diseases in children.
4. **Summing up:** testing, structured exam (at the end of the module).
5. **List of recommended literature** (basic, additional, electronic information resources):

Basic:

1. Nelson Textbook of Pediatrics, 2-Volume Set, 22nd Edition, 2024. Robert M. Kliegman, Joseph W. St. Geme III, Nathan J. Blum, et al.
2. Nelson Textbook of Pediatrics / R. M. Kliegman [et al.]; ed. R. E. Behrman. - 21th ed. - Edinburgh [etc.]: Elsevier, 2020. - Vol. 1. – LXXV.
3. Nelson Textbook of Pediatrics [Text] / R. M. Kliegman [et al.]; ed. R. E. Behrman. - 21th ed. - Edinburgh [etc.]: Elsevier, 2020. - Vol. 2. - LXXV.
4. Nelson textbook of pediatrics, 2 volume set. Edition: 21st, 2019. PDF format. <http://pediacalls.com/e-books/nelson-textbook-of-pediatrics-21st-edition/>

Additional:

1. Avery's Diseases of the Newborn Book Tenth Edition. 2018. Elsevier Inc.
All rights reserved/ No of pages 1656.
<https://www.sciencedirect.com/book/9781437701340/averys-diseases-of-the-newborn>
2. Vinod K Paul, Arvind Bagga. Ghai Essential Pediatrics, 8th edition, 2013. PDF format.

Electronic information resources:

1. <http://moz.gov.ua>– [Міністерство охорони здоров'я України](#)
2. www.ama-assn.org – [Американська медична асоціація / American Medical Association](#)

3. www.oapn.od.ua- ГО "Одеська Асоціація лікарів-педіатрів та неонатологів"
4. www.who.int – Всесвітня організація охорони здоров'я
5. www.dec.gov.ua/mtd/home/ - Державний експертний центр МОЗ України
6. <http://bma.org.uk>– Британська медична асоціація
7. www.gmc-uk.org- *General Medical Council (GMC)*
8. www.bundesaerztekammer.de – Німецька медична асоціація
9. https://www.who.int/workforcealliance/members_partners/member_list/ipa/en/ - Міжнародна асоціація педіатрів / International Pediatric Association (IPA).
10. https://ginasthma.org/wp-content/uploads/2024/05/GINA-2024-Strategy-Report-24_05_22_WMS.pdf GINA Global Initiative For Asthma. 2024
11. https://kdigo.org/wp-content/uploads/2017/02/KDIGO-2021-Glomerular-Diseases-Guideline_English_LN-2024-Update.pdf KDIGO 2021 Clinical Practice Guideline for the Management of Glomerular Diseases
12. <https://aamsmedacademy.com/> American Academy of Medical Sciences (AAMS)
13. <https://nam.edu/> The National Academy of Medicine (NAM)
14. <https://cutt.ly/utqqt7I> Підручник Нельсона з педіатрії - електронна книга Elsevier на VitalSource, 21-ше видання
15. <https://www.amazon.com/Averys-Neonatology-Pathophysiology-Management-Pathophysiology/dp/1451192681>