

Pediatric surgery

List of Topics / Thematic plan

For 5th year medical students

2023 - 2024 academic years

№	Subject	Hours
"Urgent Pediatric Surgery and Pediatric Tumors"		
1 Day	<p>Lesson 1 - Topic 1.</p> <p>Trauma in children. Injury of the abdominal cavity.</p> <ul style="list-style-type: none"> • Trauma classification. • Organization of medical care. Stages. ATLS protocol. • Traumatic hypovolemic shock. Diagnosis. Treatment. • Methods to Stop Bleeding from injury. • Injury of the parenchymal organs. • Injury of the hollow organs. • Diaphragm injury. <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. Identify clinical signs of hypovolemic shock. 2. Technique of laparocentesis (DPL - Diagnostic peritoneal lavage). 	2
	<p>Lesson 1 - Topic 2.</p> <p>Trauma in children. Trauma of the thoracic cavity. Damage to the esophagus.</p> <ul style="list-style-type: none"> • Traumatic pneumothorax. • Hemothorax. • Pulmonary injury. • Diaphragm injury. • Chemical burns of the esophagus. • Foreign bodies of the esophagus. <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. Technique of pleural drainage. 2. Technique of the Ruvilois - Gregoire test. 	2
2 Day	<p>Lesson 2 - Topic 3.</p> <p>Inflammatory surgical diseases of the abdomen:</p> <ul style="list-style-type: none"> • Appendicitis • Gallbladder disease in childhood • Acute pancreatitis • Necrotizing enterocolitis • Primary peritonitis <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. Identify local symptoms of acute appendicitis. 2. Bimanual rectal examination of the child. 	2

	<p>Lesson 2 - Topic 4.</p> <p>Acquired intestinal obstruction:</p> <ul style="list-style-type: none"> • Intestinal intussusception • Adhesive intestinal obstruction • Postoperative paralytic obstruction • Other causes of intestinal obstruction (intestinal torsion, pinched inguinal hernias, chronic constipation, gastrointestinal foreign bodies). <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. Identify the pathognomonic symptoms of intussusception. 2. X-ray examination of a child with intussusception. 	2
3 Day	<p>Lesson 3 - Topic 5.</p> <p>Inflammatory surgical diseases of the chest:</p> <ul style="list-style-type: none"> • Pleural effusion • Empyema • Pulmonary abscess • Pneumatocele • Pneumothorax • Mediastinitis <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. X-ray examination of the chest. 2. Chest drainage. Chest drainage devices. 	2
	<p>Lesson 3 - Topic 6.</p> <p>Bleeding from the gastrointestinal tract:</p> <ul style="list-style-type: none"> • Peptic ulcer and gastritis • Portal hypertension • Meckel's diverticulum • Rectal bleeding in infancy • Polyps of the gastrointestinal tract • Anal fissures • Hemorrhoids <p><i>Practical experience :</i></p> <ol style="list-style-type: none"> 1. Palpation of the abdomen. 2. Use of the Sengstaken-Blakemor probe. 	2
4 Day	<p>Lesson 4 - Topic 7.</p> <p>Inflammatory surgical diseases of bones, skin and soft tissues:</p> <ul style="list-style-type: none"> • Osteomyelitis • Lymph node disorders • Necrotizing soft tissue infections • Omphalitis • Neonatal mastitis • Anal abscesses and fistulas (Paraproctitis) 	2

	<p>Practical experience :</p> <ol style="list-style-type: none"> 1. Interpretation of data of ultrasonic, radiographic research. 2. Measurement of intraosseous pressure. 	
	<p>Lesson 4 - Topic 8.</p> <p>Urgent situations in pediatric urology:</p> <ul style="list-style-type: none"> • Urolithiasis and renal colic • Acute scrotal disease (Acute scrotum) • Balanoposthitis • Paraphimosis • Trauma of the urogenital tract <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. Palpation of the lumbar region. 2. Transillumination of the scrotum. 	2
5 Day	<p>Lesson 5 - Topic 9.</p> <p>Pediatric Oncology:</p> <ul style="list-style-type: none"> - General principles of oncology - common childhood tumors • Vascular abnormalities • Rhabdomyosarcoma • Lipomatous tumors • Fibroids • Osteosarcoma • Ewing's family of tumors • Nephroblastoma • Neuroblastoma • Teratoma • Lymphoma • Mediastinal formations <p><i>Practical experience:</i></p> <ol style="list-style-type: none"> 1. Recognize the main clinical manifestations of soft tissue and bone tumors. 2. Identify the signs of tumors life. 	4
	Lesson 5 - The final module control	
	Interview with the student. Assessment of practical skills.	2
	TOTAL	22

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