

Pediatric surgery

List of competence

1. Be able to collect and analyze medical history and perform a physical examination of a child with surgical pathology. Be able to establish the most probable or syndromic diagnosis (List 1) by analyzing the available clinical data.

| List 1. Syndromic conditions submitted for the exam |
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| <ul style="list-style-type: none">• Newborn respiratory defficiency syndrome• Congenital intestinal obstruction• Acute abdominal pain• Acquired intestinal obstruction• Congenital malformation of a limb |

2. Be able to distinguish and formulate a main clinical symptom and to carry out differential diagnosis, using preliminary data of the patient's anamnesis and physical examination. Make a preliminary diagnosis (according to list 2).

| List 2. Nosologies submitted for the exam |
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| <ul style="list-style-type: none">• Intususseption• Developmental dysplasia of a hip• Esophageal atresia• Adhesive intestinal obstruction• Congenital intestinal obstruction |

3. Be able to make a diagnostic algorithm, to interpret the results of laboratory diagnostic methods in children with surgical pathology (according to the list 3).

List 3. Laboratory methods of examinations submitted for the exam

- General blood test with leukocyte formula.
- Urinalysis
- Alpha-amylase activity in blood and urine, fecal elastase
- Blood proteins and their fractions, blood aminotransferases, total blood bilirubin and its fractions
- Coagulogram
- The plasma electrolytes level
- Arterial blood gases analysis
- Blood test for acid-base status

4. Be able to make a diagnostic algorithm, to conduct and interpret the results of instrumental diagnostic methods in children with surgical pathology (according to the list 4).

List 4. Instrumental methods of examinations

- Pneumorigraphy
- X-ray of the abdominal cavity in acquired intestinal obstruction
- X-ray examination of abdominal cavity in congenital intestinal obstruction
- Radiological diagnosis of atresia of the esophagus
- Diagnosis of hip dysplasia (scheme of Hilgenreiner).

5. Be able to provide urgent care to a child with acute surgical pathology and congenital malformations. To carry out preoperative preparation, to know the rules and principles of children's with surgical pathology transportation (see List 5).

**List 5. Emergency medical conditions and examinations submitted
for the exam**

- Esophageal atresia
- Acquired intestinal obstruction.
- Congenital intestinal obstruction.
- Dehydration and electrolyte disturbances.
- Respiratory distress.