

**Paediatric Surgery**

Code: 103606  
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	5	0
2502442 Medicine	OT	6	0

**Contact**

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**Use of Languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

**Prerequisites**

Students 5º Medicine UAB

**Objectives and Contextualisation**

To incorporate the historical background, embryogenesis, pathophysiology, diagnosis and management of childhood surgical disorders and the operative techniques for various conditions in children

**Competences**

Medicine

- Demonstrate an understanding of the fundamentals of action, indications, efficacy and benefit-risk ratio of therapeutic interventions based on the available scientific evidence.
- Establish a diagnostic approach and a well thought-out strategy for action, taking account of the results of the anamnesis and the physical examination, and the results of the appropriate complementary tests carried out subsequently.
- Listen carefully, obtain and synthesise relevant information on patients' problems, and understand this information.
- Obtain and prepare a patient record that contains all important information and is structured and patient-centred, taking into account all age and gender groups and cultural, social and ethnic factors.
- Perform a general and a system-by-system physical examination appropriate to the patient's age and sex, in complete and systematic way, and a mental evaluation.
- Use information and communication technologies in professional practice.

**Learning Outcomes**

1. Adapt the therapy procedure and the surgical technique, if appropriate, in accordance with the available data.
2. Approach the physical examination not only from the diagnostic perspective, but also the therapeutic perspective, with special emphasis on surgical procedures.

3. Calculate the surgical risk indices, both general and by apparatus, and adjust the indications accordingly.
4. Gather information and select the most important facts about the patient, both in normal visits and emergencies.
5. Integrate all pre-operative information for decision-making.
6. Make a critical analysis of the objectives to be achieved with surgery, contrasting this with the adverse effects that may be involved.
7. Obtain the most important data, both on the illness being treated and on factors influencing morbidity and mortality.
8. Use information and communication technologies in professional practice.
9. Use the scales that assess the general (physical and mental) state of the patient.

## Content

*This subject is structured into the following sections*

### Lesson 1. Presentation

a. General aspects of Pediatric Surgery b. Trauma in the pediatric age

Lesson 2. Head and Neck Pathology

a. Cleft palate/lip b. Cysts and congenital sinus c. Thyroglossal duct cyst

Lesson 3. Thoracic pathology I

a. Embryogenesis b. Oesophageal atresia c. Congenital diaphragmatic h

Lesson 4. Thoracic pathology II

a. Pulmonary malformation. b. Congenital lobar emphysema c. Pectus e

Lesson 5. Gastro-Oesophagogastric pathology

a. Gastro-oesophageal reflux and hiatus hernia b. Achalasia c. Hypertro

Lesson 6. Gastrointestinal pathology I

a. Atresias b. Malrotation. Intestinal volvulus c. Gastrointestinal duplicati

Lesson 7. Gastrointestinal pathology II

a. Meconium ileus b. Hirschsprung's disease.

### Lesson 8. Gastrointestinal pathology III

a. Meckel's Diverticulum b. Appendicitis c. Intussusception.

### Lesson 9. Anorectal Anomalies

a. Anorectal anomalies b. Cloacal exstrophy

Lesson 10. Liver pathology

a. Biliary atresia b. Choledochal cyst c. Cholecystectomy

Lesson 11. Abdominal wall

a. Omphalocele/Gastroschisis b. Hernias c. Orchidopexy d. Acute scrotum

Lesson 12. Tumours

Lesson 13. Pediatric Urology I

a. Pyeloplasty b. Ureteric duplication c. Obstructive megaureter d. Posterior Urethral valves.

Lesson 14. Pediatric urology II

a. Vesicoureteral reflux b. Neurogenic bladder

### Lesson 15. Pediatric urology III

a. Bladder exstrophy and Epispadias b. Hypospadias c. Disorders of sex development.

## Methodology

Professor coordinador: BERNARDO NÚÑEZ GARCÍA bnunez@tauli.cat

Responsables UDHSP	Responsables UDHVH	Responsables UDGTiP	Responsables UDHPT
NO S'OFERTA	Manuel López Paredes manuel.lopez@vhebron.net	Alejandro Manzanares Quintela amanzanares.germanstrias@gencat.cat	Bernardo Nuñez García bnunez@tauli.cat

## Methodology

- *This subject follows the following methodology:*

Typology Hours Specialized seminars 15 (15 lessons)

Autonomous 37.5h. Theory lecture. Practical evaluations. Simulations. Mini-clinical evaluation exercise (mini-CEX)

Evaluation Assessment activity 18.75h

Objective test of multiple choice 5% 3.75h

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Lessons	15	0.6	1, 3, 6, 9, 2, 5, 7, 4, 8
Type: Supervised			
Evaluation Assessment Activity	18.75	0.75	1, 3, 6, 9, 2, 5, 7, 4, 8

Type: Autonomous

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Theory lecture. Practical evaluations. Simulations. Mini-clinical evaluation exercise (mini-CEX)	37.5	1.5	1, 3, 6, 9, 2, 5, 7, 4, 8
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## Assessment

Attendance (>80% lessons): 50%

Objective test of multiple choice 50%

*All evaluation activities for this subject are obligatory*

*Examinations will take place at the end of the semester*

*If a student fails the first exam, he/she can take a second exam*

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and active participation in class and in seminars	50%	0	0	1, 3, 6, 9, 2, 5, 7, 4, 8
Written assessments: multiple choice tests/restricted questions	50%	3.75	0.15	1, 3, 6, 9, 2, 5, 7, 4, 8

## Bibliography

### 1. Pediatric Surgery

By: Scorpio, Ronald J; Coppola, Christopher P; Kennedy, Alfred P; Morton. Springer International Publishing. ISBN: 978-3-319-04339-5, 978-3-319-04340-1. Health & Medicine (General). Springer eBooks (Medicine 2014) 2014

### 2. Pediatric Surgery

By: Coventry, Brendon J; Morton. Springer Verlag London Ltd. ISBN: 978-1-4471-5438-9, 978-1-4471-5439-6, 978-1-306-69237-3, 978-1-4471-5439-6. Health & Medicine (General). Springer eBooks (Medicine 2014) 2014

### 3. Ashcraft's Pediatric Surgery

By: Holcomb; George Whitfield Holcomb III. W B Saunders Company. ISBN: 978-1-4160-6127-4. Health & Medicine (General). ScienceDirect eBooks (CSUC) 2013

### 4. An Illustrated Guide to Pediatric Surgery

By: Al-Salem, Ahmed H. Springer International Publishing. ISBN: 978-3-319-06664-6, 978-3-319-06666-0, 978-3-319-06665-3. Health & Medicine (General). Springer eBooks (Medicine 2014) 2014

### 5. Symptoms and Signs in Pediatric Surgery

By: Kaiser, Georges L; Lesny. Springer Berlin Heidelberg. ISBN: 978-3-642-31160-4, 978-1-283-93504-3, 978-3-642-31161-1. Health & Medicine (General). Springer eBooks (Medicine 2012) 2012

### 6. Diagnostic and Interventional Ultrasound in Pediatrics and Pediatric Surgery

By: Scholz, Stefan; Jarboe, Marcus D; Hruska. Springer. ISBN: 978-3-319-21698-0, 978-3-319-21699-7. Health & Medicine (General). Springer eBooks (Medicine 2016) 2016

### 7. Basic Techniques in Pediatric Surgery: An Operative Manual

By: Bradnock, Tim J; Carachi, Robert; Agarwala, Sandeep; Schroeder. Springer Berlin Heidelberg. ISBN: 978-3-642-20640-5, 978-3-642-20641-2. Health & Medicine (General). Springer eBooks (Medicine 2013) 2013

8. Fundamentals of Pediatric Surgery: Second Edition

By: Mattei, Peter; Muratore, Christopher S; Rollins, Michael D; Nichol, Peter F; Hruska. Springer. ISBN: 978-3-319-27441-6, 978-3-319-27443-0. Health & Medicine (General). Springer eBooks (Medicine 2017) 2017

9. Pediatric Thoracic Surgery

By: Lima, Mario; Rizza. Springer Milan. ISBN: 978-88-470-5201-7, 978-88-470-5202-4. Health & Medicine (General). Springer eBooks (Medicine 2013) 2013

10. Pediatric Digestive Surgery

By: Lima, Mario; Rizza. Springer. ISBN: 978-3-319-40523-0, 978-3-319-40525-4. Health & Medicine (General). Springer eBooks (Medicine 2017) 2017

11. Jones' Clinical Paediatric Surgery

By: Hutson; Chichester. John Wiley & Sons Incorporated. ISBN: 978-1-118-77731-2, 978-1-118-77728-2, 978-1-118-77729-9, 978-1-118-77730-5. Health & Medicine (General). Wiley Online Library Books EBS 2018 2015