



**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE  
PHASE 6  
ENGLISH MEDICINE PROGRAM**

**COURSE of PEDIATRIC SURGERY  
COURSE GUIDEBOOK**

# PREFACE

**Dear Students,**

Welcome to the Pediatric Surgery course which is an important part of your education.

This guide describes what you will learn and perform during your course, the rules you must follow in our clinic, and the working conditions. We wish you all success with the belief that this guide will guide you sufficiently through your course studies.

**Department of Pediatric Surgery**

## GENERAL INFORMATION on COURSE

<b>Course Title</b>	: Pediatric Surgery
<b>Main Department of Course</b>	: Surgical Medical Sciences
<b>Department Responsible for Course</b>	: Pediatric Surgery
<b>Course Code</b>	: MED-6509
<b>Course Topic Code</b>	: MED
<b>Course Type</b>	: Elective
<b>Duration of the Course</b>	: 1 month
<b>Teaching Method of the Course</b>	: Formal
<b>ECTS</b>	: 5
<b>Language</b>	: English

## TEACHING METHODS-TECHNIQUES

### **a. Applied training methods**

- ✓ Inpatient bedside (service) trainings / Inpatient bedside (service) practical applications
- ✓ Participation in outpatient services / Practical applications at the outpatient clinic
- ✓ Bedside Training / Practical Practices at the Bedside
- ✓ Instructor visits (Story taking, file preparation and presentation, interactive discussion, monitoring)
- ✓ Operating room applications
- ✓ Medical record keeping and evaluation practices
- ✓ Participation in Branch Informatics Applications

### **b. Interactive learning activities:**

- ✓ Meetings, panels, group discussions,
- ✓ Case-based discussion sessions, problem-based training sessions with small groups, critical situation discussions, councils, gamification, structured case discussions,
- ✓ Readings and interpretations of works/articles

### **c. Vocational Skills applications**

- ✓ The minimum number of practices/studies required for reinforcing the proficiency gained in the previous education periods in the defined vocational skills is determined and it is ensured that each intern does it.

### **d. Teamwork**

### **e. Independent learning**

- ✓ Independent working hours

### **f. Other Educational Events**

- ✓ Clinical Case Reports
- ✓ Article Presentations
- ✓ Seminar/Lesson Presentations
- ✓ Literature Presentations
- ✓ Research and Presentation

## PHYSICAL SPACES

Teaching Activity	Physical Space	Explanation
Theoretical lessons	Morphology Building	
Inpatient bedside practice	Training and Research Hospital	2nd Floor - Pediatric Surgery Service
Policlinic	Training and Research Hospital	Ground Floor - Pediatric Surgery Polyclinic
Case analysis	Morphology Building	
Problem-based teaching	-	
Special audit applications	Training and Research Hospital	
Private field applications	Training and Research Hospital	

## RELATED LEGISLATION

<http://www.tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

## AIM(S) of the COURSE

1	In this course, it is aimed that the students comprehend the basic principles and methods of surgical practice in pediatric patients.
2	In this course, it is aimed that the students have information about the surgical problems of the thoracic cavity, abdomen, and Genito-urinary region in children.
3	In this course, it is aimed that the students learn the diagnosis and surgical treatment approach for surgical problems and gain the necessary knowledge and skills for appropriate treatment at the primary care level.
4	In this course, it is aimed that the students learn the principles of approach to pediatric surgery emergency diseases and gain skills.
5	In this course, it is aimed that students have information about childhood accidents and ways of protection.

## OBJECTIVE(S) of the COURSE

1	To be able to recognize diseases that require surgical treatment, which are common in childhood, and to be able to direct the family to a pediatric surgeon.
2	To be able to take medical history, perform physical examination and make differential diagnosis from pediatric patients with surgical problems.
3	To be able to perform laboratory and radiological evaluations of patients.
4	To be able to present patient information during visits.
5	To be able to recognize the causes of respiratory distress in newborns.
6	To be able to recognize the causes of intestinal obstruction in newborns and children.
7	To be able to diagnose acute abdomen in children and to be able to refer them under appropriate conditions.
8	To be able to communicate with pediatric patients presenting with general body trauma, to be able to evaluate and examine them, to be able to apply the principles of first approach by making the differential diagnosis.
9	To be able to recognize surgical problems related to inguinal region, genitourinary system, respiratory system, and gastrointestinal system in children.
10	To be able to have knowledge and skills on how to intervene in diseases that are frequently encountered in the society (foreign body aspiration, ingestion of corrosive substances, foreign body ingestion, burns, etc.) and what to pay attention to in preventive medicine.
11	To be able to plan fluid and electrolyte therapy in pediatric patients with emergency surgical problems.
12	To be able to monitor the vital signs of critically ill patients requiring emergency surgical treatment, and to be able to refer them to a pediatric surgeon by providing respiratory and circulatory support with noninvasive methods when necessary.
13	To be able to adapt to operating room working conditions, suturing in simple incisions, wound care, inserting a nasogastric tube or urinary catheter.
14	To be able to explain the importance of obtaining consent from patients before surgical interventions.

## INTENDED LEARNING OUTCOME(S)

1	Can recognize diseases that require surgical treatment, which are common in childhood, and can direct the family to a pediatric surgeon.
2	Can take medical history, perform physical examination, and make differential diagnosis from pediatric patients with surgical problems.
3	Can perform laboratory and radiological evaluations of patients.
4	Can present patient information during visits.
5	Can recognize the causes of respiratory distress in newborns.
6	Can recognize the causes of intestinal obstruction in newborns and children.
7	Can diagnose acute abdomen in children and can refer them under appropriate conditions.
8	Can communicate with pediatric patients presenting with general body trauma, can evaluate and examine them, can apply the principles of first approach by making the differential diagnosis.
9	Can recognize surgical problems related to inguinal region, genitourinary system, respiratory system and gastrointestinal system in children.
10	Can have knowledge and skills on how to intervene in diseases that are frequently encountered in the society (foreign body aspiration, ingestion of corrosive substances, foreign body ingestion, burns, etc.) and what to pay attention to in preventive medicine.
11	Can plan fluid and electrolyte therapy in pediatric patients with emergency surgical problems.
12	Can monitor the vital signs of critically ill patients requiring emergency surgical treatment and can refer them to a pediatric surgeon by providing respiratory and circulatory support with noninvasive methods when necessary.
13	Can adapt to operating room working conditions, suturing in simple incisions, wound care, inserting a nasogastric tube or urinary catheter.
14	Can explain the importance of obtaining consent from patients before surgical interventions.



# **DUTIES and RESPONSIBILITIES OF STUDENTS and OTHER ISSUES**

**Please read:** MSKU Medical Faculty Pre-Graduation Education Rules, Students' Responsibilities and Duties (MSKÜ Tıp Fakültesi Mezuniyet Öncesi Eğitiminde Öğrencilerin Uyması Gereken Kurallar, Öğrencilerin Sorumlulukları ve Görevleri)

**Web Site:** <https://tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

## RECOMMENDED RESOURCE(S)

### KEY RESOURCE(S)

KEY RESOURCE(S)	Matched Course Outcome(s)
Pediatric Surgery-Arnold G. Coran, 7th Edition, ELSEVIER	1,2,3,5,6,7,8,9,10
Bebek ve Çocukların Cerrahi ve Ürolojik Hastalıkları- A. Can Başaklar, Palme Yayıncılık	1,2,3,5,6,7,8,9,10

### ADDITIONAL RESOURCE(S)

ADDITIONAL RESOURCE(S)	Matched Course Outcome(s)
Çocuk Ürolojisi- Abdurrahman Önen, Cüneyt Günşar, Murat Alkan, Ayşe Karaman, US Akademi	1,2,3
Operative Pediatric Surgery- Moritz M. Ziegler, Richard G. Azizkhan, Daniel von Allmen, Thomas R. Weber- 2nd Edition, McGraw Hill	1,2,3,5,6,7,8,9,10

# ASSESSMENT AND EVALUATION

**Phase 6 Student Internship Success Criteria: (All criteria must be met)**

1. The student must fulfill the internship continuity criteria.
2. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.
3. Candidate Physician Logbook scoring of 60 and above is considered successful.

**Faculty of Medicine**  
**English Medicine Program**  
**Phase 6**  
**Pediatric Surgery Course**  
**Competence Matrix**

The Name of the Course	Po1	Po2	Po3	Po4	Po5	Po6	Po7	Po8	Po9	Po10	Po11	Po12	Po13
Pediatric Surgery	5	4	5	4	5	5	5	5	3	2	5	5	5

\* Completed according to the following program outcomes. (Score from 0 to 5.)

PO: Program Outcomes of Faculty of Medicine

PO Link: <https://muweb.mu.edu.tr/tr/program-yeterlilikleri-6598?site=tip.mu.edu.tr>

# CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE

<b>MUGLA SITKI KOCMAN UNIVERSITY</b> <b>MEDICAL SCHOOL</b> <b>PEDIATRIC SURGERY INTERNSHIP</b> <b>CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE</b>		
Student's name and surname: Number:		Beginning:/...../..... End: .../..../.
<b>A</b>	<b>Participation in Internship Training Programs (25 points)</b> <ul style="list-style-type: none"> <li>✓ Seminar, article, case report etc.</li> <li>✓ Report-Homework Preparation etc.</li> <li>✓ Research etc.</li> </ul>	
<b>B*</b>	<b>Internship Logbook Score (50 points) *</b> <ul style="list-style-type: none"> <li>✓ Fulfilling the applications specified in the internship logbook in the desired number and level etc.</li> </ul>	
<b>C</b>	<b>Fulfilling Intern Physician Work Responsibilities: (25 points)</b> <ul style="list-style-type: none"> <li>✓ Learning the seizure system, taking over, and transferring patients, obeying the hours</li> <li>✓ Service Activities</li> <li>✓ Polyclinic Activities</li> <li>✓ Fulfillment of assigned tasks</li> <li>✓ Adaptation and Participation in Teamwork</li> <li>✓ Communication with patients and their relatives</li> <li>✓ Compliance with working hours etc.</li> </ul>	
<b>CONTINUITY:</b>		<b>Continuous (....)</b>
<b>RESULT:</b>		<b>Discontinuous (.....)</b>
<b>EVALUATION SCORE:</b> (With numbers and text)		<b>HEAD OF DEPARTMENT</b>
Score: ..... (out of 100)		Date: Signature:
<b>INTERNSHIP COORDINATOR ACADEMIC STAFF:</b> Date: Signature:		
<b>Phase 6 Student Internship Success Criteria: (All criteria must be met)</b> <ol style="list-style-type: none"> <li>4. The student must fulfill the internship continuity criteria.</li> <li>5. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.</li> <li>6. Candidate Physician Logbook scoring of 60 and above is considered successful.</li> </ol>		
* Half of the Candidate Physician Internship Logbook Score must be reflected in the B field.		

# CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK

MUGLA SITKI KOCMAN UNIVERSITY MEDICAL SCHOOL PEDIATRIC SURGERY CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK			
Student's name and surname:		Number:	
Beginning: ...../...../.....		End: ...../...../.....	Level
			Performed
1.	Patient file preparation	4	
2.	Taking general and problem-oriented history	4	
3.	Systematic physical examination	4	
4.	Evaluation of general condition and vital signs	4	
5.	Interpreting the results of screening and diagnostic examinations	3	
6.	Differential Diagnosis		
7.	Reading and evaluating direct radiographs	3	
8.	Requesting rational laboratory and imaging examination	4	
9.	Applying the principles of working with biological material	4	
10.	Obtaining a biological sample from the patient	3	
11.	Taking the laboratory sample under appropriate conditions and delivering it to the laboratory	4	
12.	Providing decontamination, disinfection, sterilization, antisepsis	4	
13.	Hand washing	4	
14.	Opening vascular access	4	
15.	IM, IV, SC, ID Injection	4	
16.	Preparing the drugs to be applied correctly	3	
17.	Administering oral, rectal, vaginal, and topical drugs	3	
18.	Applying the principles of rational drug use	4	
19.	Treatment planning and prescription	4	
20.	Preparing patient discharge report	4	
21.	Properly referring the patient	4	
22.	Providing sufficient and understandable information to the patient and his/her relatives about the disease	4	
23.	Providing accurate and adequate information to the patient and/or patient relatives about possible interventions/treatment options, obtaining consent for treatment	4	
24.	Communicating effectively with the work team, colleagues, and trainers	4	
25.	Internship-specific item* .....		
26.	Internship-specific item* .....		
27.	Internship-specific item* .....		
<b>RESULT:</b>  <b>Successful (....)</b>   <b>Unsuccessful (.....)</b>	<b>EVALUATION SCORE:</b> (With numbers and text)  <b>Score: ..... (out of 100)</b>	<b>INTERNSHIP COORDINATOR</b> <b>ACADEMIC STAFF:</b>  Date:  Signature:	<b>HEAD OF DEPARTMENT</b>  Date:  Signature:

**Phase 6 Student Internship Success Criteria: (All criteria must be met)**

1. The student must fulfill the internship continuity criteria.
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3. Candidate Physician Logbook scoring of 60 and above is considered successful.

**\*The Department can remove the item(s) from the Internship Logbook and/or add the item(s) specific to the internship by specifying the level to the Internship Logbook. It is recommended that the department check that all NCEP-2020 Basic Medicine Practices and levels related to the internship are stated in the Internship Logbook.**

**LEARNING LEVEL OF BASIC MEDICAL PRACTICES\***

<b>Level</b>	<b>Explanation</b>
1	Knows how the application is done and explains the results to the patient and / or their relatives
2	Makes the application in accordance with the guide / directive in an emergency
3	Makes the application* in uncomplicated, common, cases/cases
4	Makes the application** including complex situations/phenomenons
*Denotes the minimum level of performance, and therefore learning, that a physician who graduated from the faculty of medicine should exhibit during basic medicine practices. It is determined separately for each skill/application in the minimum level list. The faculties ensure that each student is able to perform the medical practice in question at the minimum level determined during the education period they apply.	
** Makes the preliminary evaluation/evaluation, creates, and implements the necessary plans, and informs the patient and their relatives/society about the process and its results.	
<b>*Source: NCEP 2020</b>	