



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

**COURSE of PEDIATRIC SURGERY
2022/2023 Academic Year
COURSE GUIDEBOOK**

Course Code: Med 5004

Course Topic Code: MED5-ÇCE

***This guide has been prepared by the Department of PEDIATRIC SURGERY Course Purpose, Target, Outcomes, Training and Education Contents, Methods, Educational Activities, Measurement and Evaluation Techniques, Course Logbook, Program Qualifications Matrix, Matching the Courses with NCEP 2020, Matching the Courses with the Course Objectives and Outcomes, Matching the Course Achievements with Measurement Techniques, Course Notification Form, Vertical/Horizontal Integration Status of Courses and Course Schedules were declared on 15.06.2022.**

PREFACE

Dear Students,

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

In this course program, which is going to continue for 2 weeks, we aim to give the basic education of the course program in all aspects of theoretical courses and practical applications. 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

Course Title	: Pediatric Surgery
Main Department of Course	: Surgical Sciences
Department Responsible for Course	: Pediatric Surgery
Course Code	: MED-5004
Course Type	: Required
Duration of the Course	: 2 weeks
Teaching Method of the Course	: Formal
ECTS	: 3
Language	: English
Head of the department	: Prof. Dr. Süleyman Cüneyt Karakuş

Teaching Staff :

Teaching Staff	Subject area	Theoretical Course duration (Hours)
Süleyman Cüneyt Karakuş	Pediatric Surgery	20
Nazile Ertürk	Pediatric Surgery	2
Alev Süzen	Pediatric Surgery	26

Coordinator of the Department Education Program	: Assistant Prof. Alev Süzen
Coordinator of the Course Education Program	: Assistant Alev Süzen
Coordinator of the Course Examinations	: Associate Prof. Nazile Ertürk
Coordinator of Course Assessment and Evaluation	: Associate Prof. Ertürk

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TEACHING METHODS-TECHNIQUES

1. Theoretical lessons
2. Learning Centered Teaching
 - a. Case-based discussion sessions
 - b. Student case reports,
 - c. Practical application at the bedside
 - d. Practical application at the bedside in the outpatient clinic
3. Interactive teaching

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 gain sufficient knowledge, skills and attitudes to evaluate the signs and symptoms of common diseases in pediatric surgery within the scope of the National CEP, to diagnose in primary care conditions, to create a treatment plan / to perform applications / to monitor, to make emergency interventions when necessary or to provide referral to a pediatric surgeon.
2	In this course, it is aimed to inform students about childhood accidents and ways of protection.

OBJECTIVE(S) of the COURSE

1	To be able to recognize surgical problems related to the inguinal region, genitourinary system, respiratory system and gastrointestinal system in children and refer the patient to a pediatric surgeon.
2	To be able to take medical history from pediatric patients with surgical problems, to be able to perform physical examination and make differential diagnosis.
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 refer under appropriate conditions.
8	To be able to communicate with pediatric patients presenting with general body trauma, to evaluate and examine them, to apply the principles of first approach by making the differential diagnosis.
9	To be able to explain how to intervene in diseases (foreign body aspiration, ingestion of corrosive substances, foreign body ingestion, burns, etc.) that will be encountered frequently in the society, and what should be considered in preventive medicine.
10	To be able to plan fluid and electrolyte therapy in pediatric patients with emergency surgical problems.
11	To be able to monitor the vital signs of critically ill patients requiring emergency surgical treatment and refer them to a pediatric surgeon by providing respiratory and circulatory support with noninvasive methods when necessary.
12	To be able to adapt to operating room working conditions, to be able to suture simple incisions, perform wound care, interosseous application, insertion of nasogastric tube or urinary catheter.
13	To be able to explain the importance of obtaining consent from patients before surgical interventions.

INTENDED LEARNING OUTCOME(S)

1	Can recognize surgical problems related to the inguinal region, genitourinary system, respiratory system, and gastrointestinal system in children and refer the patient to a pediatric surgeon.
2	Can take medical history from pediatric patients with surgical problems, can perform physical examination and make differential diagnosis.
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 refer under appropriate conditions.
8	Can communicate with pediatric patients presenting with general body trauma, to evaluate and examine them, to apply the principles of first approach by making the differential diagnosis.
9	Can explain how to intervene in diseases (foreign body aspiration, ingestion of corrosive substances, foreign body ingestion, burns, etc.) that will be encountered frequently in the society, and what should be considered in preventive medicine.
10	Can plan fluid and electrolyte therapy in pediatric patients with emergency surgical problems.
11	Can monitor the vital signs of critically ill patients requiring emergency surgical treatment and refer them to a pediatric surgeon by providing respiratory and circulatory support with noninvasive methods when necessary.
12	Can adapt to operating room working conditions, to be able to suture simple incisions, perform wound care, interosseous application, insertion of nasogastric tube or urinary catheter.
13	Can explain the importance of obtaining consent from patients before surgical interventions.

DUTIES AND RESPONSIBILITIES OF STUDENTS

Duration of course is 2 weeks.

In addition to the theoretical courses, “patient practice” courses are carried out during the course.

Students are assigned daily in rotation in general and local operating rooms, Pediatric Surgery Clinic and Polyclinic.

In outpatient clinic practices, students are expected to present their thoughts on diagnosis and treatment by taking a history and performing a physical examination.

They are expected to learn and comply with sterility conditions and patient safety in the operating room.

Student who is assigned with bedside history taking and physical examination in the service, is expected to present patient information, differential diagnoses, and diagnosis of the patient during the next day's visit.

Students are responsible for completing the course logbook for each application during the course.

During the course program (if no change is notified by the relevant faculty member during the course period), students are expected to fully present for theoretical or practical application. According to the regulation, there is an attendance requirement of 70% in theoretical courses and 80% in applied courses in Phase V.

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

Assessment and Evaluation in the End of Course Evaluation Exam

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value for the End of Course Evaluation
Attendance to Classes		Compulsory	
Course Logbook		Compulsory	
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Bedside Clinical Practice Exam**	Taking history and making a physical examination from the patient in the service		5
Structured Oral Examination***	Under the supervision of at least two faculty members		45
Total			100

Availability of Course Logbook, Place of Course Report in Course Assessment and Evaluation Principles

For the right to take the written exam, the student must be evaluated as “adequate” from the criteria specified in the course report.

Existence of Attendance Requirement and Its Place in Course Assessment-Evaluation Principles

It is stated at the beginning of the course that the student who is absent from the courses will not be taken to the written exam.

The Effect of the Assessment and Evaluation Methods to be Applied on the Success Status at the End of the Course

In order to be successful in the course, it is required to get at least 60 points at each stage of the course exams. A student whose score is 59 and below in an assessment-evaluation technique is not allowed to participate in the other exam phase.

1 st stage: Multiple Choice Theoretical Test Exam

2 nd stage: Structured Oral Examination + Bedside Clinical Practice Exam

Assessment and Evaluation in Resit Examination

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Structured Oral Examination**	Under the supervision of at least two faculty members		50
Total			%100

Assessment and Evaluation in Single Course Resit Exam
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Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam	Multiple choice questions		50
Structured Oral Examination	Under the supervision of at least two faculty members		50
Total			%100

Faculty of Medicine
English Medicine Program
Phase V
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>

TRAINING ACTIVITY AND ASSESMENT AND EVALUATION METHODS MATCHING OF COURSE GAINS

Intended Learning Outcome	TRAINING ACTIVITY MATCHING	ASSESSMENT AND EVALUATION METHODS MATCHING
1.Can recognize surgical problems related to the inguinal region, genitourinary system, respiratory system, and gastrointestinal system in children and refer the patient to a pediatric surgeon.	T, C	TE
2.Can take medical history from pediatric patients with surgical problems, can perform physical examination and make differential diagnosis.	CR, V, C	P-L
3.Can perform laboratory and radiological evaluations of patients.	L, R	TE
4.Can present patient information during visits.	V, CR	P-L
5.Can recognize the causes of respiratory distress in newborns.	T, V	OE, TE
6.Can recognize the causes of intestinal obstruction in newborns and children.	T, CR	OE, TE
7.Can diagnose acute abdomen in children and refer under appropriate conditions.	T, V, P, OS	P-L, OE, TE
8.Can communicate with pediatric patients presenting with general body trauma, to evaluate and examine them, to apply the principles of first approach by making the differential diagnosis.	V, C, CR	OE
9.Can explain how to intervene in diseases (foreign body aspiration, ingestion of corrosive substances, foreign body ingestion, burns, etc.) that will be encountered frequently in the society, and what should be considered in preventive medicine.	T, V, C, CR	P-L, TE
10.Can plan fluid and electrolyte therapy in pediatric patients with emergency surgical problems.	T, CR	P-L, OE, TE
11.Can monitor the vital signs of critically ill patients requiring emergency surgical treatment and refer them to a pediatric surgeon by providing respiratory and circulatory support with noninvasive methods when necessary.	V	OE
12.Can adapt to operating room working conditions, to be able to suture simple incisions, perform wound care, interosseous application, insertion of nasogastric tube or urinary catheter.	VSL	P-L
13.Can explain the importance of obtaining consent from patients	V, CR	P-L

before surgical interventions.		
Abbreviations Teaching Activity: Theoretical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr) Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)		

INFORMATION AND MATCHING TABLE ON THE THEORETICAL AND PRACTICAL COURSES IN THE COURSE TO BE INCLUDED IN THE 2022- 2023 ACADEMIC YEAR COURSE PROGRAM

Lecture Code*	Hour	Lecture Type	Lecture Subject	Course Aim Matching	Course Learning Outcome Matching	Activity Matching**	Assessment and Evaluation Method matching **	Vertical Integration	Horizontal Integration
ME D5-ÇCE 001	1	T	Course Promotion Meeting- Introduction of Pediatric Surgery Course	1	1,2 and 13	V			
ME D5-ÇCE 002	1	T	Burn Care	1, 2	9,10 and 11	T, CR	P-L		Phase 5- Plastic and Reconstructive Surgery Course
ME D5-ÇCE 003	2	T	Anterior abdominal wall anatomy and embryology- Congenital Defects of the Abdominal Wall and Disorders of the Umbilicus	1	1 and 6	T, CR	OE, TE	Phase 1 and 2	
ME D5-ÇCE 004	1	T	Obstructive jaundice	1	1	T, CR	OE, TE	Phase 4- Child Health and Diseases Course	
ME D5-ÇCE 005	4	T	Anatomy and embryology of inguinal region-Physical examination of the inguinal region and differential diagnosis of acute scrotum, Inguinal Hernias, Hydroceles, Spermatic cord cysts, Undescended Testis and Varicocele	1	1	T, CR	P-L, OE, TE	Phase 1 and 2 Phase 4- General Surgery Course	Phase 5- Urology Course
ME D5-ÇCE 006	2	T	Radiological evaluation in intestinal obstruction	1	3 and 6	R	OE		Phase 5- Radiology Course
ME D5-ÇCE 007	2	T	Anatomy, physiology and embryology of digestive system- Hirschsprung Disease and Other Disorders of Intestinal Motility	1	1 and 6	T, CR	OE, TE	Phase 1 and 2	
ME D5-ÇCE 008	1	T	Phimosis and circumcision	1	1	T, CR	P-L, OE, TE		
ME	3	T	Anatomy, physiology and	1	1,2	T,	OE, TE	Phase 1 and	Phase 5-

D5-ÇCE 009			embryology of genitourinary system -Genitourinary disorders- Ureteropelvic Junction Obstruction, Vesicoureteral Reflux, Hypospadias and other anomalies		and 3	CR		2	Urology Course
ME D5-ÇCE 010	1	T	Radiological evaluation of the respiratory system and diseases	1	1,3 and 5	R	OE		Phase 5- Radiology Course
ME D5-ÇCE 011	1	T	Esophageal diseases in childhood	1	1 and 6	T, CR	OE, TE		
ME D5-ÇCE 012	2	T	Anatomy, physiology and embryology of respiratory system- Congenital anomalies of diaphragm and respiratory system	1	1,3 and 5	T, CR	OE, TE	Phase 1 and 2	
ME D5-ÇCE 013	2	T	Anorectal Malformations	1	1 and 6	T, CR	OE, TE		
ME D5-ÇCE 014	2	T	Functional constipation, encopresis and urinary incontinence in childhood	1	1 and 6	T, CR	OE, TE	Phase 4- Internal diseases and Child Health and Diseases Courses	
ME D5-ÇCE 015	4	T	Abdominal physical examination and approach to child with acute abdominal pain Acute abdomen in childhood	1	1,2,3, 7 and 10	T, CR	P-L, OE, TE	Phase 4- General Surgery Course	
ME D5-ÇCE 016	4	T	Solid tumors in childhood- Neuroblastoma, Wilms' Tumor, Teratomas and Other Tumors	1	1	T, CR	OE, TE	Phase 3	
ME D5-ÇCE 017	1	T	Stoma care (colostomy, ileostomy, gastrostomy, vesicostomy)	1	1 and 6	T, CR, Pr	OE, TE	Phase 4- General Surgery Course	
ME D5-ÇCE 018	3	T	Congenital anomalies of gastrointestinal system- intestinal atresia Hypertrophic Pyloric Stenosis Gastrointestinal Bleeding in childhood and intestinal obstruction- Anal fissure, Meckel Diverticulum and Intussusception	1	1,2,3, 6 and 10	T, CR	OE, TE		
ME D5-ÇCE 019	4	T	Approach to child with multiple trauma, Pediatric trauma - respiratory, gastrointestinal and genitourinary systems	1	8,10 and 11	T, CR	OE, TE		Phase 5- Emergency Medicine Course
ME D5-	8	P	Principles of sterility in surgical operating theatre	1	12 and	CR, Pr	P-L	Phase 4- General	

ÇCE 020			Patient safety and positioning in surgical operating theatre		13			Surgery Course	
ME D5-ÇCE 021	10	P	Bedside history and physical examination	1	1,2 and 4	V, C, CR	P-L		
ME D5-ÇCE 022	10	P	Outpatient clinic (History taking and physical examination)	1	1,2,3 and 4	V, C	P-L		
ME D5-ÇCE 023	1	P	Bedside teaching- Ingestion and aspiration of foreign bodies	1, 2	1,3,4, 9 and 11	V, CR, C, Pr	P-L		
ME D5-ÇCE 024	3	P	Presentation and insertion of vascular access, catheters and tubes /Placing intraosseous access	1	12	VSL	P-L	Phase 1, 2 and 3	
ME D5-ÇCE 025	1	P	Bedside teaching- wound and burn care	1	9,10 and 11	V, C	P-L, OE	Phase 4- General Surgery Course	Phase 5- Plastic and Reconstructive Surgery Course
ME D5-ÇCE 026	2	P	Structured Free Study hour (Community based education project - Informing students about corrosive substance ingestion and preparing a brochure) Community based education project - Informing families about corrosive substance ingestion and distributing brochures	1,2	9,10 and 11	C	P-L		
ME D5-ÇCE 027	2	P	Structured Free Study hour (Community based education project - Informing students about foreign body ingestion/aspiration and preparing a brochure) Community based education project - Informing families about foreign body ingestion/aspiration and distributing brochures	1,2	9,10 and 11	C	P-L		
ME D5-ÇCE 028	2	P	Structured Free Study hour (Community based education project - Informing students about burns/accidents and preparing a brochure) Community based education project - Informing families about burns/accidents and	1,2	9,10 and 11	C	P-L		

			distributing brochures						
ME D5-ÇCE 029	2	P	Circumcision under Local Anesthesia	1	12 and 13	C, CR	P-L, OE		
ME D5-ÇCE 030	1	P	Bedside teaching- Scrotal pain	1	1 and 4	V, C, CR	P-L, OE, TE		Phase 5-Urology Course
ME D5-ÇCE 031	2	P	Surgical instruments and sutures-Learn How To Suture	1	12	VSL	P-L		
ME D5-ÇCE 032	1	P	Bedside teaching- Undescended Testis	1	1 and 4	V, C	P-L, OE, TE		Phase 5-Urology Course
ME D5-ÇCE 033	1	P	Bedside teaching- Inguinal Hernias and Hydroceles	1	1 and 4	V, C	P-L, OE, TE		
ME D5-ÇCE 034	1	P	Bedside teaching- Acute abdomen	1	1,2,3, 4,7 and 10	V, C, CR	P-L, OE, TE	Phase 4-General Surgery Course	
ME D5-ÇCE 035	1	P	Bedside teaching- Corrosive chemical substance ingestions	1	4,9,10 and 11	V, C	P-L, OE, TE		
ME D5-ÇCE 036	1	P	Bedside teaching-Phimosis	1	1 and 4	V, C	OE, TE		
ME D5-ÇCE 037	1	P	Bedside teaching- Hypospadias	1	1 and 4	V, C	OE, TE		
ME D5-ÇCE 038	1	T	Bedside teaching-an overview	1, 2	1,2,3,5 ,6,7 and 8	Pr	P-L, OE, TE		
ME D5-ÇCE 039	1	T	Evaluation of Course Exam Questions	1, 2	1,2,3,5 ,6,7 and 8	Pr			
ME D5-ÇCE 040	1	T	Course Evaluation Meeting	1, 2	1,2,3,5 ,6,7 and 8	Pr			

EXPLANATIONS:

* Lecture code will be formed by writing 001, 002,... at the end of the code taken from the "Codes for Phase 5 matrix" section.

****Abbreviations**

Teaching Activity: Theoretical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr)

Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)