

COURSE INFORMATION					
Course Title	Code	Semester	Lecture+Practice+Labrotory Hour	Credits	ECTS
Pediatric Surgery (Clinical Clerkship)	MED509	Phase 5 / 9-10	23+21	3	3*

\* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

<b>Prerequisites</b>	The student that joins this course, should completed Phase 1, 2, 3 and 4 year courses of medical faculty.
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Second Cycle including First Cycle Degree (One Tier Programme)
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	Şafak KARAÇAY, MD. Assoc. Prof
<b>The instructors</b>	Şafak KARAÇAY, MD. Assoc. Prof
<b>Assistants</b>	
<b>Goals</b>	The course aims to equip the students with necessary knowledge, skills and attitudes to become familiar with the recognition, natural history, and general and specific treatment of those pediatric surgical conditions that one would expect to encounter in general medical practice in a community lacking the immediate availability of a pediatric surgeon.

Learning Outcomes <i>At the end of this clerkship, the student should be able to:</i>	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. <b>Explain</b> the causes of acute abdomen in children	1.1.9., 1.1.6.	1,2,3	A,C
2. <b>Assess and compare</b> hernias and common surgical problems of inguinal region	1.1.2., 1.1.9.	1,2,3	A,C
3. <b>Explain</b> causes of rectal bleeding in children	1.1.6., 1.1.8.	1,2,3	A,C
4. <b>List</b> the common anorectal problems	1.1.3, 1.1.6.	1,2,3	A,C
5. <b>Describe</b> the approach to the constipated child	1.1.2., 1.1.6., 1.1.9.	1,2,3	A,C

6. <b>List</b> the causes of non-bilious and bilious vomiting in children	1.1.2., 1.1.3., 1.1.6.,	1,2,3	A,C
7. <b>List and describe</b> the abdominal masses and solid tumors in childhood	1.1.12., 1.1.3., 1.1.6.	1,2,3	A,C
8. <b>Describe</b> the common neonatal surgical conditions	1.1.2., 1.1.6., 1.1.9.,	1,2,3	A,C
9. <b>Assess</b> the general approach to trauma and the multiply injured child	1.1.12., 1.1.3., 1.1.6	1,2,3	A,C
10. <b>List</b> the prenatal diagnosed disease related to the pediatric general and urological conditions	1.1.9.	1,2,3	A,C
11. <b>List</b> common pediatric urological conditions	1.1.3., 1.1.6	1,2,3	A,C
12. <b>Describe</b> surgical aspects in urinary tract infections in childhood	1.1.2., 1.1.6., 1.1.9.	1,2,3	A,C
13. <b>Explain</b> surgical fluid and electrolyte hemostasis	1.1.9., 1.1.10.	1,2,3	A,C
14. <b>Describe</b> congenital anomalies of genito-urinary tract	1.1.2., 1.1.6., 1.1.9.	1,2,3	A,C
15. <b>Refer</b> to a specialist when necessary	1.1.9., 1.2.2.,	1,2,3	A,C

**Teaching Methods:** 1: Lecture, 2: Question-Answer, 3: Discussion

**Assessment Methods:** A: Testing C: Presentation

## COURSE CONTENT

**Week Topics**

**Study Materials**

1	<b>Introductory Session</b> (Introduction to Pediatric Surgery)	Materials for the course provided by the the instructor
1	<b>Lecture</b> Child and Surgery	Materials for the course provided by the instructor
1	<b>Lecture</b> Newborn as a Surgical Patient	Materials for the course provided by the instructor
1	<b>Lecture</b> Abdominal Wall Defects and Umbilical Pathologies	Materials for the course provided by the instructor
1	<b>Lecture</b> Fetal Surgery	Materials for the course provided by the instructor
1	<b>Lecture</b> Head and Neck Pathologies	Materials for the course provided by the instructor
1	<b>Lecture</b> Inguinal Pathologies of Children	Materials for the course provided by the instructor
1	<b>Lecture</b> Scrotal Pathologies of Children	Materials for the course provided by the instructor
1	<b>Lecture</b> Acute Abdomen in Children	Materials for the course provided by the instructor
1	<b>Lecture</b> Surgical Pathologies of Lungs, Pleura and Diaphragm	Materials for the course provided by the instructor
1	<b>Lecture</b> Burns in Children	Materials for the course provided by the instructor
1	<b>Lecture</b> Nonobstructive Pediatric Urological Pathologies	Materials for the course provided by the instructor
1	<b>Lecture</b> Trauma in Children	Materials for the course provided by the instructor
1	<b>Lecture</b> Obstructive Pediatric Urological Pathologies	Materials for the course provided by the instructor
2	<b>Lecture</b> GI Obstruction of Newborn	Materials for the course provided by the instructor
1	<b>Lecture</b> Caustic Ingestions and Foreign Body Ingestions in Children	Materials for the course provided by the instructor
1	<b>Lecture</b> Biliary Atresia and Obtuctive Jaundice	Materials for the course provided by the instructor
2	<b>Lecture</b> Surgical GI Bleeding in Children	Materials for the course provided by the instructor

1 <b>Lecture</b> Hirschsprung's Disease and Constipation	Materials for the course provided by the instructor
2 <b>Lecture</b> Solid Tumors in Children	Materials for the course provided by the instructor
15 <b>Lecture</b> Clinical Training (Inpatient) and Ward Round	Materials for the course provided by the instructor
2 <b>Lecture</b> Program Evaluation Session	Materials for the course provided by the instructor

<b>NCC 2014 – Essential Medical Procedures (National Core Curriculum)</b>	<b>Performance Level</b>
General and symptom-based history taking	1
Abdominal physical examination	4
Consciousness assessment and psychiatric examination	3
Child and newborn examination	1
Digital rectal examination	4
Respiratory system examination	1
Urological examination	1
Starting IV line	1
Hand washing	4
Urinary catheterization	1
Administration of enema	1
Nasogastric catheterization	3
Superficial suturing and removal of sutures	1
Providing medical service in extraordinary situations	1

<b>RECOMMENDED SOURCES</b>	
<b>Textbook</b>	1-Pediatric Surgery Mark M. Ravitch 2- Çocuk Cerrahisi Ders Notları _A. Can Başaklar
<b>Additional Resources</b>	Lecture notes

<b>ASSESSMENT</b>
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<b>Questions Types (Pencil-Paper Tests)</b>	<b>Proportion (in Pass/Fail Decision)</b>	<b>Questions Types (Pencil-Paper Tests)</b>
Multiple Choice Questions	%60	Multiple Choice Questions
<b>Total</b>	<b>%60</b>	<b>Total</b>
<b>Other Assessment Methods and Tools</b>	<b>Proportion (in Pass/Fail Decision)</b>	<b>Other Assessment Methods and Tools</b>
Evaluation of Student's Seminar (Without Checklist)	%40	Evaluation of Student's Seminar (Without Checklist)
<b>Total</b>	<b>%40</b>	<b>Total</b>
Pass/Fail Decision	<b>Proportion (in Pass/Fail Decision)</b>	Pass/Fail Decision
Pencil-Paper Tests	%60	Pencil-Paper Tests
Other Assessment Methods and Tools	%40	Other Assessment Methods and Tools
<b>Total</b>	<b>%100</b>	<b>Total</b>

<b>MATERIAL SHARING</b>	
<b>Documents</b>	Photocopy shareable.
<b>Assignments</b>	Not Shareable
<b>Exams</b>	Not shareable

<b>COURSE CATEGORY</b>	Expertise / Field Courses
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COURSE'S CONTRIBUTION TO PROGRAM						
	PODG.1. Basic Professional Competencies	Contribution				
	POD.1.1. Clinical Competencies	1	2	3	4	5
<b>PO.1.1.1.</b>	<b>values</b> preventive health services, <b>offers</b> primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, <b>provides</b> consultancy on these issues.					
<b>PO.1.1.2.</b>	<b>employs</b> a patient-centered approach in patient management.					<b>X</b>

<b>PO.1.1.3.</b>	<b>recognizes</b> most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.				X	
<b>PO.1.1.4.</b>	<b>takes</b> medical history from the applicant himself/herself or from the individual's companions.					
<b>PO.1.1.5.</b>	<b>does</b> general and focused physical and mental examination.				X	
<b>PO.1.1.6.</b>	<b>interprets</b> findings in medical history, physical and mental examination.				X	
<b>PO.1.1.7.</b>	<b>employs</b> diagnostic procedures that are used frequently at the primary health care level.		X			
<b>PO.1.1.8.</b>	<b>selects</b> tests that have evidence-based high efficacy at the primary health care level and <b>interprets</b> results.					
<b>PO.1.1.9.</b>	<b>makes</b> clinical decisions using evidence-based systematic data in health care service.		X			
<b>PO.1.1.10.</b>	<b>performs</b> medical interventional procedures that are used frequently at the primary health care level.					
<b>PO.1.1.11.</b>	<b>manages</b> healthy individuals and patients in the context of health care services.					
<b>PO.1.1.12.</b>	<b>keeps</b> medical records in health care provision and <b>uses</b> information systems to that aim.					X
<b>POD.1.2. Competencies related to Communication</b>						
<b>PO.1.2.1.</b>	throughout his/her career, <b>communicates</b> effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.			X		
<b>PO.1.2.2.</b>	<b>collaborates</b> as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health.				X	
<b>PO.1.2.3.</b>	<b>recognizes</b> the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.				X	
<b>PO.1.2.4.</b>	<b>communicates</b> with all stakeholders taking into consideration the socio-cultural diversity.					X
<b>POD.1.3. Competencies Related to Leadership and Management</b>						
<b>PO.1.3.1.</b>	<b>manages</b> and <b>leads</b> within the health care team in primary health care organization.					
<b>PO.1.3.2.</b>	<b>recognizes</b> the principles of health management and health sector economy, models of organization and financing of health care services.					
<b>PO.1.3.3.</b>	<b>recognizes</b> the resources in the health care service, the principles for cost-effective use.					
<b>POD.1.4. Competencies related to Health Advocacy</b>						
<b>PO.1.4.1.</b>	<b>recognizes</b> the health status of the individual and the community and the factors affecting the health, <b>implements</b> the necessary measures to prevent effects of these factors on the health.					
<b>PO.1.4.2.</b>	<b>recognizes</b> and <b>manages</b> the health determinants including conditions that prevent access to health care.					
<b>POD.1.5. Competencies related to Research</b>						
<b>PO.1.5.1.</b>	<b>develops, prepares</b> and <b>presents</b> research projects					
<b>POD.1.6. Competencies related to Health Education and Counseling</b>						
<b>PO.1.6.1.</b>	<b>provides</b> consultancy services and <b>organizes</b> health education for the community to sustain and promote the health of individual and community.					

	<b>PODG.2. Professional Values and Perspectives</b>					
	<b>POD.2.1. Competencies related to Law and Legal Regulations</b>					
<b>PO.2.1.1.</b>	<b>performs</b> medical practices in accordance with the legal framework which regulates the primary health care service.					X
	<b>POD.2.2. Competencies Related to Ethical Aspects of Medicine</b>					
<b>PO.2.2.1.</b>	<b>recognizes</b> basic ethical principles completely, and <b>distinguishes</b> ethical and legal problems.					X
<b>PO.2.2.2.</b>	<b>pays importance to</b> the rights of patient, patient's relatives and physicians, and <b>provides</b> services in this context.					X
	<b>POD.2.3. Competencies Related to Social and Behavioral Sciences</b>					
<b>PO.2.3.1.</b>	<b>relates</b> historical, anthropological and philosophical evolution of medicine, with the current medical practice.					
<b>PO.2.3.2.</b>	<b>recognizes</b> the individual's behavior and attitudes and factors that determine the social dynamics of the community.					
	<b>POD.2.4. Competencies Related to Social Awareness and Participation</b>					
<b>PO.2.4.1.</b>	<b>leads</b> community with sense of responsibility, behavior and attitudes in consideration of individual behaviors and social dynamics of the community, and if there is a necessity, <b>develops</b> projects directed towards health care services.					
	<b>POD.2.5. Competencies Related to Professional Attitudes and Behaviors</b>					
<b>PO.2.5.1.</b>	<b>displays</b> a patient-centered and holistic (biopsychosocial) approach to patients and their problems.					
<b>PO.2.5.2.</b>	<b>respects</b> patients, colleagues and all stakeholders in health care delivery.			X		
<b>PO.2.5.3.</b>	<b>displays</b> the proper behavior in case of disadvantaged groups and situations in the community.					
<b>PO.2.5.4.</b>	<b>takes</b> responsibility for the development of patient safety and healthcare quality.					
<b>PO.2.5.5.</b>	<b>evaluates</b> own performance as open to criticism, <b>realizes</b> the qualifications and limitations.					
	<b>PODG.3. Professional Development and Self-Worth</b>					
	<b>PODG.3.1. Personal Development and Values</b>					
<b>PO.3.1.1.</b>	<b>embraces</b> the importance of lifelong self-learning and <b>implements</b> .					
<b>PO.3.1.2.</b>	<b>embraces</b> the importance of updating knowledge and skills; <b>searches</b> current advancements and <b>improves</b> own knowledge and skills.					
<b>PO.3.1.3.</b>	<b>uses</b> English language at least at a level adequate to follow the international literature and to establish communication related to the profession.					
	<b>POD.3.2. Competencies Related to Career Management</b>					
<b>PO.3.2.1.</b>	<b>recognizes</b> and <b>investigates</b> postgraduate work domains and job opportunities.					
<b>PO.3.2.2.</b>	<b>recognizes</b> the application requirements to postgraduate work/job domains, and <b>distinguishes</b> and <b>plans</b> any requirement for further training and work experience.					
<b>PO.3.2.3.</b>	<b>prepares</b> a resume, and <b>recognizes</b> job interview methods.					

	<b>POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health</b>					
<b>PO.3.3.1.</b>	<b><i>implements</i></b> the rules of healthy living.					
<b>PO.3.3.2.</b>	<b><i>displays</i></b> appropriate behavior specific to work under stressful conditions.					
<b>PO.3.3.3.</b>	<b><i>uses</i></b> self-motivation factors.					

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity/ day	Duration (Hour)	Total Workload (Hour)
Course Duration (2 weeks)	10	4.5	45
Hours for off-the-classroom study (Pre-study, practice, review/week)	10	3	30
Homework	-	-	-
Exam	2	2	4
<b>Total Work Load</b>			79
<b>Total Work Load / 30 (h)</b>			2.63
<b>ECTS Credit of the Course</b>			3