

COURSE INFORMATION					
Course Title	Code	Semester	Lecture+Practice+Labrotory Hour	Credits	ECTS
Child Health and Pediatrics (Clinical Clerkship)	MED 402	Phase 4/7-8	100+240	12	12*

\* 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 and 3 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>	Hülya Sarıçoban, MD.PhD. Prof.
<b>The instructors</b>	<p><u>Yeditepe University Hospital</u>  Hülya Sarıçoban, MD.PhD. Prof. (Head of the Department)  Filiz Bakar, MD. Prof.  Sabri Kemahlı, MD. Prof.  Haluk Topaloğlu, MD. Prof.  Meltem Uğraş, MD. Prof.  Kazım Öztarhan, MD. Prof.  Nevin Yalman, MD. Prof.  Elif Sağsak, MD. Assoc. Prof.  Asım Yörük, MD. Assoc. Prof.  Emine Manolya Kara, MD, Assoc. Prof.  Mustafa Berber, MD. Assist. Prof.  Çetin Timur, MD. Assist. Prof.  Endi Romano, MD. Assist. Prof.  Seyhan Perihan Çobanoğlu Saf, MD. Assist. Prof.  Coşkun Saf, MD. Assist. Prof.  Burçin Yorgancı Kale, MD. Assist. Prof.  Çiğdem Yanar Ayanoğlu, MD. Lecturer  Fatma Tülin Şimşek, MD. Lecturer  Büşra Çağlar, MD. Lecturer  Bilge Atlı, MD. Lecturer  Erdem Toprak, MD. Lecturer  İsmet Düşmez, MD. Lecturer  İlksen Yalçinoğlu, MD. Lecturer  Ezgi Gökçe Eraslan, MD. Lecturer  Fulya Coşkunol, MD. Lecturer</p> <p><u>Ministry Of Health İstanbul Training And Research Hospital</u>  Serdar Cömert, MD, Prof.  Didem Arman MD, Assoc. Prof.  Gamze Özgürhan MD, Assoc Prof.  Nursu Kara MD. Speialist Lecturer</p>
<b>Assistants</b>	-
<b>Goals</b>	

The course aims to equip the clerkship attendees with the necessary knowledge and skills on the evaluation of healthy and sick child, making diagnosis and treating them.

<b>Learning Outcomes</b> <i>At the end of this clerkship, the student should be able to:</i>	<b>Program Learning Outcomes</b>	<b>Teaching Methods</b>	<b>Assessment Methods</b>
1. <b>take</b> detailed, relevant history of child and his/her family, <b>perform</b> intravenous/intramuscular/subcutaneous injections, <b>collect</b> venous blood sample, <b>vaccinate</b> children,	1.1.3., 1.1.6.,	1,2,3	A,C
2. <b>perform</b> detailed Physical Examination of child and neonate, considering special features related to age of Patient,	1.1.3., 1.1.6.,	1,2,3	A,C
3. <b>assess</b> physical-motor-mental development of healthy child,.	1.1.3., 1.1.6., 1.1.9.,	1,2,3	A,C
4. <b>assess</b> anthropometric evaluation in proper techniques, including percentile charts,	1.1.12, 1.2.3., 2.1.1., 2.2.1., 2.2.2.,	1,2,3	A,C
5. <b>collect</b> pharyngeal swab, fecal and urine cultures,	1.1.3.,	1,2,3	A,C
6. <b>supply</b> basic life support to neonates and children,	1.1.5., 1.1.7., 1.1.9.,	1,2,3	A,C
7. <b>evaluate</b> results of peripheral blood smear, urine test and sediment, arterial blood gas, complete blood count, pediatric ECG, serum electrolytes, renal function tests, hepatic function tests and thyroid function tests, chest X-rays	1.1.12.,	1,2,3	A,C
8. <b>care</b> umbilicus in newborn	1.1.5., 1.1.7., 1.1.9.,	1,2,3	A,C
9. <b>evaluate</b> results of cerebrospinal fluid analysis, otoscopy and ophthalmoscopy, nebulizer use for patient, pulse oximetry, cardiac monitoring and ECG, measurement of blood glucose with a glucometer, application and follow up of phototherapy, pedigree construction	1.1.12.,	1,2,3	A,C

<p>10. <b>observe and explain</b></p> <p>10.1 lumbar puncture</p> <p>10.2 bone marrow aspiration,</p> <p>10.3 paracentesis,</p> <p>10.4 exchange transfusion,</p> <p>10.5 pulmonary function tests,</p> <p>10.6 diagnostic and therapeutic endoscopy,</p> <p>10.7 echocardiography,</p> <p>10.8 application of prick test</p> <p>10.9 endocrinological provocation and inhibition tests,</p>	1.1.12.,	1,2,3	A,C
<p>11. <b>assimilate</b> principles of</p> <p>11.1 respecting Patient rights and establishing well-balanced relations with Patients' relatives,</p> <p>11.2 maintaining good relations with colleagues and teaching staff, and being analytical and research orientated,</p> <p>11.3 maintaining good relations with health staff,</p> <p>11.4 asking for consultation,</p> <p>11.5 using written and on-line sources correctly,</p> <p>11.6 giving clear and concise information about Patient's condition to Patient and family,</p> <p>11.7 obeying infection control regulations when working in ward and outPatient clinics</p>	2.5.2.,	1,2,3	A,C

<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion
<b>Assessment Methods:</b>	A: Testing B: Presentation C: Homework

COURSE CONTENT		
Week	Topics	Study Materials
1	<b>Introductory Session</b> (Introduction to Pediatrics)	Materials for the course provided by the the instructor
1	<b>Lecture</b> History taking	Materials for the course provided by the instructor
1	<b>Lecture</b> Newborn Examination	Materials for the course provided by the instructor
1	<b>Lecture</b> Respiratory System Examination	Materials for the course provided by the instructor

1	<b>Lecture</b> Gastrointestinal and Genitourinary System Examination	Materials for the course provided by the instructor
1	<b>Lecture</b> Cardiovascular System Examination & Electrocardiographic Principles	Materials for the course provided by the instructor
1	<b>Lecture</b> Neonatal Hyperbilirubinemia	Materials for the course provided by the instructor
1	<b>Lecture</b> Neurological Examination	Materials for the course provided by the instructor
1	<b>Lecture</b> Perinatal Asphyxia, Cerebral Palsy,	Materials for the course provided by the instructor
1	<b>Lecture</b> Pediatric Basic and Advanced Life Support	Materials for the course provided by the instructor
1	<b>Lecture</b> Pediatric Assessment in Pediatric Emergency Department	Materials for the course provided by the instructor
1	<b>Lecture</b> Approach to Nutrition	Materials for the course provided by the instructor
1	<b>Lecture</b> Malnutrition & Obesity	Materials for the course provided by the instructor
1	<b>Lecture</b> Prematurity, Postmaturity	Materials for the course provided by the instructor
1	<b>Lecture</b> Approach to Immun Deficiencies-1-2	Materials for the course provided by the instructor
1	<b>Lecture</b> Growth, Development, and Growth Retardation 1-2	Materials for the course provided by the instructor
1	<b>Lecture</b> Acute Rheumatic Fever and Infective Endocarditis	Materials for the course provided by the instructor
1	<b>Lecture</b> Tetanus, Diphtheria, Mumps, And Pertussis	Materials for the course provided by the instructor
1	<b>Lecture</b> Immunization Principles and Vaccination-1-2	Materials for the course provided by the instructor
1	<b>Lecture</b> Atopic Dermatitis and Allergic Rhinitis	Materials for the course provided by the instructor
1	<b>Lecture</b> Connective Tissue Diseases and Vasculitic Syndromes	Materials for the course provided by the instructor
2	<b>Lecture</b> Basic Principles and Practice of Clinical Biochemistry-1-2	Materials for the course provided by the instructor
2	<b>Lecture</b> Viral Paralytic Diseases	Materials for the course provided by the instructor
2	<b>Lecture</b> Metabolic Disorders in Newborn	Materials for the course provided by the instructor
2	<b>Lecture</b> Approach to Intrauterin Infections	Materials for the course provided by the instructor
2	<b>Lecture</b> Neonatal Resuscitation, and Neonatal Transport	Materials for the course provided by the instructor
2	<b>Lecture</b> Urinary Tract Infections and Tubulopathies	Materials for the course provided by the instructor
2	<b>Lecture</b> Hypophyseal Diseases	Materials for the course provided by the instructor
2	<b>Lecture</b> Hematology and Coagulation	Materials for the course provided by the instructor
2	<b>Lecture</b> Neonatal Respiratory Distress 1-2	Materials for the course provided by the instructor
2	<b>Lecture</b> Acid-Base Disorders	Materials for the course provided by the instructor

2	<b>Lecture</b> Cystic Fibrosis and Wheezy Infant	Materials for the course provided by the instructor
2	<b>Lecture</b> Approach to Urticaria and Anaphylaxis	Materials for the course provided by the instructor
2	<b>Lecture</b> Peripheral Blood Smear Evaluation	Materials for the course provided by the instructor
2	<b>Lecture</b> Hemopoetic Stem Cell and Transplantation & Cell Therapies	Materials for the course provided by the instructor
2	<b>Lecture</b> Intoxications	Materials for the course provided by the instructor
2	<b>Lecture</b> Malabsorbtion and Celiac Disease	Materials for the course provided by the instructor
2	<b>Lecture</b> Congestive Heart Failure	Materials for the course provided by the instructor
2	<b>Lecture</b> Evaluation of Endocrine Function	Materials for the course provided by the instructor
2	<b>Lecture</b> Diabetes Mellitus	Materials for the course provided by the instructor
2	<b>Lecture</b> Diseases of Myocardium and Pericardium	Materials for the course provided by the instructor
3	<b>Lecture</b> Sepsis and Meningococemia	Materials for the course provided by the instructor
3	<b>Lecture</b> Shock	Materials for the course provided by the instructor
3	<b>Lecture</b> GIS Bleeding	Materials for the course provided by the instructor
3	<b>Lecture</b> Constipation	Materials for the course provided by the instructor
3	<b>Lecture</b> Neonatal Infections	Materials for the course provided by the instructor
3	<b>Lecture</b> Approach to the Child with Fever and Fever of Unknown Origin 1-2	Materials for the course provided by the instructor
3	<b>Lecture</b> Acute Gastroenteritis and Parasitosis	Materials for the course provided by the instructor
3	<b>Lecture</b> Lower Respiratory Tract Infections	Materials for the course provided by the instructor
3	<b>Lecture</b> Upper Respiratory Tract Infections	Materials for the course provided by the instructor
3	<b>Lecture</b> Inflammatory Bowel Diseases	Materials for the course provided by the instructor
3	<b>Lecture</b> Abdominal Pain and Peptic Diseases, H. pylori infection, Gastroesophageal Reflux	Materials for the course provided by the instructor
3	<b>Lecture</b> Congenital Hypothyroidism	Materials for the course provided by the instructor
3	<b>Lecture</b> Hypothyroidism-Hyperthyroidism	Materials for the course provided by the instructor
3	<b>Lecture</b> Urinalysis and Other Body Fluids	Materials for the course provided by the instructor
3	<b>Lecture</b> Hyperparatiroidism, Hypoparatiroidism	Materials for the course provided by the instructor
3	<b>Lecture</b> Calcium Metabolism	Materials for the course provided by the instructor
3	<b>Lecture</b> Hepatitits	Materials for the course provided by the instructor

3	<b>Lecture</b> Cirrhosis and Portal Hypertension	Materials for the course provided by the instructor
3	<b>Lecture</b> Maculopapular-Vesicular Diseases	Materials for the course provided by the instructor
3	<b>Lecture</b> Asthma	Materials for the course provided by the instructor
3	<b>Lecture</b> Fluid and Electrolyte Disorders-1-2	Materials for the course provided by the instructor
3	<b>Lecture</b> Approach to the Patient with Convulsion	Materials for the course provided by the instructor
3	<b>Lecture</b> <i>Coma and Stroke</i>	Materials for the course provided by the instructor
4	<b>Lecture</b> Diabetic Ketoacidosis	Materials for the course provided by the instructor
4	<b>Lecture</b> Haemoglobinopathies (Thalassemia and Sickle Cell Anemia)	Materials for the course provided by the instructor
4	<b>Lecture</b> Blood Transfusions and Complications	Materials for the course provided by the instructor
4	<b>Lecture</b> Cardiac Markers	Materials for the course provided by the instructor
4	<b>Lecture</b> Tuberculosis	Materials for the course provided by the instructor
4	<b>Lecture</b> Introduction to Anemia, Iron Deficiency Anemia and Nutritional Anemias	Materials for the course provided by the instructor
4	<b>Lecture</b> Hematological Disorders in Newborn	Materials for the course provided by the instructor
4	<b>Lecture</b> Nephrotic Syndrome	Materials for the course provided by the instructor
4	<b>Lecture</b> Neonatal Convulsions	Materials for the course provided by the instructor
4	<b>Lecture</b> Infections of CNS	Materials for the course provided by the instructor
4	<b>Lecture</b> Acute and Chronic Renal Failure	Materials for the course provided by the instructor
4	<b>Lecture</b> Vitamin Deficiencies and Rickets	Materials for the course provided by the instructor
4	<b>Lecture</b> Diagnostic Methods in Infectious Diseases	Materials for the course provided by the instructor
4	<b>Lecture</b> Introduction to Pediatric Oncology; Lymph Nodes and Abdominal Masses	Materials for the course provided by the instructor
4	<b>Lecture</b> Malignancy in Childhood	Materials for the course provided by the instructor
4	<b>Lecture</b> Congenital Heart Diseases	Materials for the course provided by the instructor
4	<b>Lecture</b> Acute Glomerulonephritis	Materials for the course provided by the instructor
4	<b>Lecture</b> Respiratory Failure	Materials for the course provided by the instructor
4	<b>Lecture</b> Inborn Errors of Metabolism-	Materials for the course provided by the instructor
4	<b>Lecture</b> Approach to the Dysmorphic Child and Common Genetic Disorder in Pediatrics	Materials for the course provided by the instructor

4	<b>Lecture</b> Hypertension	Materials for the course provided by the instructor
2	<b>Practice</b> (Immunization)	Materials for the course provided by the instructor
2	<b>Practice</b> (Growth and Development)	Materials for the course provided by the instructor
3	<b>Practice</b> (Vital signs)	Materials for the course provided by the instructor
4	<b>Practice</b> (Chest X-RAY Evaluation)	Materials for the course provided by the instructor
5	<b>Clinical Practice</b>	Materials for the course provided by the instructor
6	<b>Clinical Practice</b>	Materials for the course provided by the instructor
7	<b>Clinical Practice</b>	Materials for the course provided by the instructor
8	<b>Clinical Practice</b>	Materials for the course provided by the instructor
9	<b>Clinical Practice</b>	Materials for the course provided by the instructor
10	<b>Assessment Session</b>	Materials for the course provided by the instructor
2	<b>Program Evaluation Session</b> Review of the Exam Questions, Evaluation of the Program	Materials for the course provided by the instructor

#### RECOMMENDED SOURCES

<b>Textbook</b>	1-Neson Textbook of Pediatrics (Shared)
<b>Additional Resources</b>	Lecture notes

#### ASSESSMENT

<b>Question Types (Pencil-Paper Tests)</b>	Proportion (in Pencil-Paper Tests)
<b>Multiple Choice Questions</b>	40%
<b>Total</b>	40 %
<b>Other Assessment Methods and Tools</b>	Proportion (in Pass/Fail Decision)
<b>Structured Oral Exam (OE)</b>	40%
<b>Objective Structured Clinical Exam (OSCE)</b>	18%
<b>Logbook</b>	2%
<b>Total</b>	60 %
<b>Pass/Fail Decision</b>	Proportion (in Pass/Fail Decision)
<b>Pencil-Paper Tests</b>	40%
<b>Other Assessment Methods and Tools</b>	60%
<b>Total</b>	100 %

<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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<b>COURSE'S CONTRIBUTION TO PROGRAM</b>						
	<b>PODG.1. Basic Professional Competencies</b>	<b>Contribution</b>				
	<b>POD.1.1. Clinical Competencies</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<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.				<b>X</b>	
<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.				<b>X</b>	
<b>PO.1.1.6.</b>	<b>interprets</b> findings in medical history, physical and mental examination.				<b>X</b>	
<b>PO.1.1.7.</b>	<b>employs</b> diagnostic procedures that are used frequently at the primary health care level.		<b>X</b>			
<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.		<b>X</b>			
<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.					<b>X</b>
	<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.			<b>X</b>		
<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.				<b>X</b>	



<b>PO.1.2.3.</b>	<b>recognizes</b> the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.					<b>X</b>	
<b>PO.1.2.4.</b>	<b>communicates</b> with all stakeholders taking into consideration the socio-cultural diversity.						<b>X</b>
	<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.						<b>X</b>
	<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.						<b>X</b>
<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.						<b>X</b>
	<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>x</b>		
<b>PO.2.5.2.</b>	<b>respects</b> patients, colleagues and all stakeholders in health care delivery.						
<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>implements</b> the rules of healthy living.						
<b>PO.3.3.2.</b>	<b>displays</b> appropriate behavior specific to work under stressful conditions.						
<b>PO.3.3.3.</b>	<b>uses</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 (10 weeks)	50	7	350
Hours for off-the-classroom study (Pre-study, practice, review/week)	44	0.5	22
Homework	-	-	-
Exam	1	1	1
<b>Total Work Load</b>			373
<b>Total Work Load / 30 (h)</b>			12.4
<b>ECTS Credit of the Course</b>			12