YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE V

ACADEMIC PROGRAM

2011 - 2012

	1.grup /14	2.grup/12	3.grup/14	4.grup/14	5.grup/14	6.grup/13	7.grup/14
12-30.09.2011	ORTHOPAEDICS & TRAUMATOLOGY	PSYCHIATRY + CHILD PSY.	NEUROSURGERY	NEUROLOGY	OPHTHALMOLOGY	ENT	UROLOGY
	Y.Ü.T.F. (3 weeks)	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)	Y.Ü.T.F+ K.L.K. (3 weeks)	Y.Ü.T.F.+G.E.A.H. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)
03-14.10.2011	PMR	RADIOLOGY	NUCLEAR M. Y.Ü.T.F.(1weeks)	ANESTHESIOLOGY	DERMATOLOGY	INFECTIOUS DISEASES	PEDIATRIC SURGERY
	Y.Ü.T.F. (2 weeks)	G.E.A.H. (2 weeks)	R.ONCOLOGY K.L.K. (1 weeks)	Y.Ü.T.F. (2 weeks)	Y.Ü.T.F (2 weeks)	H.N.H. (2 weeks)	Y.Ü.T.F+G.E.A.H. (2 weeks)
17.10-04.11.2011	UROLOGY	ORTHOPAEDICS & TRAUMATOLOGY	PSYCHIATRY + CHILD PSY.	NEUROSURGERY	NEUROLOGY	OPHTHALMOLOGY	ENT
	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)	Y.Ü.T.F+ K.L.K. (3 weeks)	Y.Ü.T.F.+G.E.A.H. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)
14-25.11.2011	PEDIATRIC SURGERY	PMR	RADIOLOGY	NUCLEAR M. Y.Ü.T.F.(1weeks)	ANESTHESIOLOGY	DERMATOLOGY	INFECTIOUS DISEASES
	Y.Ü.T.F+G.E.A.H. (2 weeks)	Y.Ü.T.F. (2 weeks)	G.E.A.H. (2 weeks)	R.ONCOLOGY K.L.K.(1 weeks)	Y.Ü.T.F. (2 weeks)	Y.Ü.T.F (2 weeks)	H.N.H. (2 weeks)
25.11-16.12.2011	ENT	UROLOGY	ORTHOPAEDICS & TRAUMATOLOGY	PSYCHIATRY + CHILD PSY.	NEUROSURGERY	NEUROLOGY	OPHTHALMOLOGY
	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)	Y.Ü.T.F+ K.L.K. (3 weeks)	Y.Ü.T.F.+G.E.A.H. (3 weeks)	Y.Ü.T.F. (3 weeks)
19-30.12.2011	INFECTIOUS DISEASES	PEDIATRIC SURGERY	PMR	RADIOLOGY	NUCLEAR M. Y.Ü.T.F.(1weeks)	ANESTHESIOLOGY	DERMATOLOGY
	H.N.H. (2 weeks)	Y.Ü.T.F+G.E.A.H. (2 weeks)	Y.Ü.T.F. (2 weeks)	G.E.A.H. (2 weeks)	R.ONCOLOGY K.L.K.(1 weeks)	Y.Ü.T.F. (2 weeks)	Y.Ü.T.F (2 weeks)
02-20.01.2012	OPHTHALMOLOGY	ENT	UROLOGY	ORTHOPAEDICS & TRAUMATOLOGY	PSYCHIATRY + CHILD PSY.	NEUROSURGERY	NEUROLOGY
	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)	Y.Ü.T.F+ K.L.K. (3 weeks)	Y.Ü.T.F.+G.E.A.H. (3 weeks)
23.01.03.02.2012	DERMATOLOGY	INFECTIOUS DISEASES	PEDIATRIC SURGERY	PMR	RADIOLOGY	NUCLEAR M. Y.Ü.T.F.(1weeks)	ANESTHESIOLOGY
	Y.Ü.T.F (2 weeks)	H.N.H. (2 weeks)	Y.Ü.T.F+G.E.A.H. (2 weeks)	Y.Ü.T.F. (2 weeks)	G.E.A.H. (2 weeks)	R.ONCOLOGY K.L.K.(1 weeks)	Y.Ü.T.F. (2 weeks)
06-24.02.2012	NEUROLOGY	OPHTHALMOLOGY	ENT	UROLOGY	ORTHOPAEDICS & TRAUMATOLOGY	PSYCHIATRY + CHILD PSY.	NEUROSURGERY
	Y.Ü.T.F.+G.E.A.H. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)	Y.Ü.T.F+ K.L.K. (3 weeks)
27.02.-09.03.2012	ANESTHESIOLOGY	DERMATOLOGY	INFECTIOUS DISEASES	PEDIATRIC SURGERY	PMR	RADIOLOGY	NUCLEAR M. Y.Ü.T.F.(1weeks)
	Y.Ü.T.F. (2 weeks)	Y.Ü.T.F (2 weeks)	H.N.H. (2 weeks)	Y.Ü.T.F+G.E.A.H. (2 weeks)	Y.Ü.T.F. (2 weeks)	G.E.A.H. (2 weeks)	R.ONCOLOGY K.L.K.(1 weeks)
12-30.03.2012	NEUROSURGERY	NEUROLOGY	OPHTHALMOLOGY	ENT	UROLOGY	ORTHOPAEDICS & TRAUMATOLOGY	PSYCHIATRY + CHILD PSY.
	Y.Ü.T.F+ K.L.K. (3 weeks)	Y.Ü.T.F.+G.E.A.H. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)
02-13.04.2012	NUCLEAR M. Y.Ü.T.F.(1weeks)	ANESTHESIOLOGY	DERMATOLOGY	INFECTIOUS DISEASES	PEDIATRIC SURGERY	PMR	RADIOLOGY
	R.ONCOLOGY K.L.K.(1 weeks)	Y.Ü.T.F. (2 weeks)	Y.Ü.T.F (2 weeks)	H.N.H. (2 weeks)	Y.Ü.T.F+G.E.A.H. (2 weeks)	Y.Ü.T.F. (2 weeks)	G.E.A.H. (2 weeks)
16.04-04.05.2012	PSYCHIATRY + CHILD PSY.	NEUROSURGERY	NEUROLOGY	OPHTHALMOLOGY	ENT	UROLOGY	ORTHOPAEDICS & TRAUMATOLOGY
	H.N.H.(2)+Y.Ü.T.F(1) (3 weeks)	Y.Ü.T.F+ K.L.K. (3 weeks)	Y.Ü.T.F.+G.E.A.H. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)	Y.Ü.T.F. (3 weeks)
07-18.05.2012	RADIOLOGY	NUCLEAR M. Y.Ü.T.F.(1weeks)	ANESTHESIOLOGY	DERMATOLOGY	INFECTIOUS DISEASES	PEDIATRIC SURGERY	PMR
	G.E.A.H. (2 weeks)	R.ONCOLOGY K.L.K.(1 weeks)	Y.Ü.T.F. (2 weeks)	Y.Ü.T.F (2 weeks)	H.N.H. (2 weeks)	Y.Ü.T.F+G.E.A.H. (2 weeks)	Y.Ü.T.F. (2 weeks)
21-30.05.2012	CL.PHARMACOLOGYY.U.T.F. (GROUP I)				FORENSIC MEDICINE Y.U.T.F. (GROUP II)		
31.05-08.06.2012	FORENSIC MEDICINE Y.U.T.F. (GROUP II)				CL.PHARMACOLOGYY.U.T.F. (GROUP I)		

25-29.06.2012 bütünleme

GRUP 1

Alpay Burak Doğru
Kaan Eray Uzun
Rabia Merve Erbıyık
Tuba Gençol
Aslı Nur Ören
Gizem Yıldız
Sena Saygılı
Selin Güven
Gizem Çom
Betül Çınar
Deniz Türkmen
Emre Kütükçü
Günce Başarır
İsmet Düşmez

GRUP 2

Cansu Hemşinlioğlu
Elif Cansu Karaahmetoğlu
Gürcan Albeniz
Funda Erdoğan
Emre Arı
Ünzile Arifoğlu
Serkan Turan

İnci Batun
Merve Özdoğan
Kaan Tuğberk Özdemir
Navdar Doğuş Uzun

GRUP 3

Özgecan Görman
Cemal Alay
Arman Totuk
Mert Erenler
Ceren Tuğrul
Elif Gündüz
İsa Caner Aydın
Veronika Kutyavina
Elif Sayman
Elif Dalgıç
Yiğit Mustafa Ertunç
Ali Türkoğlu
Jülin Bilgin
Aslı Çuhacı

GRUP 4

Zeynep Parlakgüneş
Bora Kunay
Gökhan Kiğılı
Burak Mungan
Fulya Baygut
Kutluğ Bilge Öztürk
Algı Nişancı
Ece Büyüksandalyeci
Zeynep Nil Baki
Oğuzcan Kınıkoğlu
Yunus Emre Altıntaş
Adil Eralp Koçak
Melike Karaoğlu
Betül Eryılmaz

GRUP 5

Bahar Akpınar
Gülçin Akpınar
Elda Yeniay
Ayşe Işıl Doğan
Pelin Güneş
Safiye Gözübüyük
Mavera Uşaklıoğlu
Esra Kars
Talar Vartaroğlu
inan Yılmaz
Erkan Erener
Fatih Noyan
Merve Coşkun
Bilal Karaman

GRUP 6

Serkan Bayram
Başak Bahadır
Damla Bilecen
Mehtap Yücel
Sidar Uygun
Nil Yurttaş
Süleyman Yıldız
İdris Taş
Berrin Erok
Sırma Mine Tilev
Anil Yıldız
Utku Özgen

GRUP 7

Çığıl Özgür
Aysu Aligil
Pelin Atağ
Elnaz Porkarrezaiyeh
Oğuz Arslantürk
Halil Aydar
Semih Canpolat
Serdar Toy
Kamuran Dayan
Yüksel Hakan Aydoğmuş
Asım Emre Eriçek
Hatice Güllüelli
Mukaddes Şener

- Anesthesiology and Reanimation
- Infectious Diseases and Clinic Microbiology
- Dermatology
- Radiology
- Physical Medicine and Rehabilitation
- Nuclear Medicine
- Radiation Oncology
- Psychiatry
- Child Psychiatry
- Opthalmology
- Otorrhinolaryngology
- Pediatric Surgery
- Neurosurgery
- Orthopaedics and Traumatology
- Neurology
- Urology
- Forensic Medicine
- Clinical Pharmacology

YEDITEPE UNIVERSITY FACULTY OF MEDICINE
ANESTHESIOLOGY AND REANIMATION (2 weeks)

Anesthesiology Lectures: Learning objectives

1.1. Introduction to the principles of general anesthesia and postoperative complications

Students should be able to learn;
Definition and history of of general and regional anesthesia
Basic principles and theory of general anesthesia
How general anesthesia is managed

1.2. Regional anesthesia and local anesthetics

Students should be able to learn;
Basic principles of regional anesthesia
Types of regional anesthesia
Basic regional anesthetic drugs

1.3. Basic Life Support

Students should be able to learn;
How to make an appropriate and effective cardiopulmonary resussitation (CPR).
Understand the importance of the CPR.
They will learn to differentiate the reversible causes of cardiac arrest.
Know how to manage the laboratory process.

1.4. Advanced Life Support
Students should be able to learn;
How to manage advanced life support
Components of advanced life support
Drug use during CPR
They will learn to use the tools required during the procedure
How to manage CPR in simulation

1.5. Coma / Brain death

Students should be able to learn;
Definitions of coma and brain death
How to differenciate between coma and brain death
Brain death criteria

1.6. Intoxications

Students should be able to learn;
Diagnosis of intoxications
General principles of treatment of intoxications
Treatment in some common intoxications

1.7. Anaphylaxis

Students should be able to learn;
Basics of anaphylacic reactions
Causes of anaphylaxis
Emergency treatment of anaphylaxis

1.8. Sepsis

Students should be able to learn;
Definition of sepsis
Diagnosis and the criteria of sepsis
Stages of sepsis
Treatment of sepsis

1.9. Intravenous/Volatile anesthetic agents

Students should be able to learn;
The pharmacologic and clinical properties of general anesthetic agents.

1.10. Pain

Students should be able to learn;
Definition and the history of pain
Molecular and neuronal basis of pain
Approach to a patient with acute and chronic pain
Medical and interventional treatment of pain

1.11. Acute respiratory insufficiency

Students should be able to learn;
Definition and diagnosis of acute respiratory insufficiency
Causes of acute respiratory insufficiency
Treatment of acute respiratory insufficiency

1.12. Acid-base disorders and arterial blood gas evaluation

Students should be able to learn;
Basic interpretation of arterial blood gases evaluation
Diagnose the major acid-base disorders
How to treat acid-base disorders

1.13. Fluid electrolyte balance

Students should be able to learn;
The bases of fluid and electrolyte in human body
Major fluid-electrolyte disorder
Treatment of major fluid-electrolyte disorders

1.14. Oxygen transport and hypoxia treatment

Students should be able to learn;
The bases of oxygen transport in the body
The definition of hypoxia
The treatment of hypoxia

1.15. Thermoregulation (hypo/hyperthermia)

Students should be able to learn;
Physiology of thermoregulation
Thermoregulation under anesthesia
Disorders of thermoregulation
Treatment of hypo/hyperthermia

1.16. Blood transfusion and complications

Students should be able to learn;
Blood products and types of them
Indications of blood and blood product transfusions
Complications and treatment of complications of blood transfusions

1.17. Anesthesia for the trauma patient

Students should be able to learn;
Primary evaluation of the trauma patient
Fluid resusitation of the trauma patient
Anesthesia for the trauma patient

1.18. Anesthesia for the head trauma patient (Increased ICP)

Students should be able to learn;
Primary evaluation of the head trauma patient
Emergency treatment of the patient with increased ICP
Anesthesia for the patient with head trauma

1.19. Drowning and near drowning

Students should be able to learn;
Physiology and pathology of drowning
Types of drowning
Treatment of drowning

ANESTHESIOLOGY AND REANIMATION

LECTURES

1.1. Introduction to the principles of general anesthesia and postoperative complications

Özge Köner, MD Prof.

1.2. Regional anesthesia and local anesthetics	Sevgi Bilgen, MD Assist.Prof.
1.3. Basic Life Support	Sibel Temür,MD Assoc. Prof.
1.4. Advanced Life Support	Sibel Temür ,MD Assoc. Prof.
1.5. Coma / Brain death	Sibel Temür ,MD Assoc. Prof.
1.6. Intoxications	Özge Köner, MD Prof.
1.7. Anaphylaxis	Ferdi Menda, MD Assist.Prof.
1.8. Sepsis	Sibel Temür, MD Assoc. Prof.
1.9. Intravenous/Volatile Anesthetics	Özge Köner, MD Prof.
1.10. Pain	Ferdi Menda, MD Assist.Prof.
1.11. Acute respiratory insufficiency	Özgül Keskin, MD
1.12. Acid-base disorders and arterial blood gas evaluation	Özge Köner, MD Prof.
1.13. Fluid electrolyte balance	Özge Köner, MD Prof.
1.14. Oxygen transport and hypoxia treatment	Sevgi Bilgen, MD Assist. Prof.
1.15. Thermoregulation (hypo/hyperthermia)	Hatice Türe, MD Assoc.Prof.
1.16. Blood transfusion and complications	Ferdi Menda, MD Assist.Prof.
1.17. Anesthesia for the head trauma patient	Hatice Türe, MD Assist.Prof.
1.18. Drowning and near drowning	Murat Sayın,MD Assoc. Prof.

2011-2012

ANESTHESIOLOGY AND REANIMATION (2 WEEKS)

FIRST WEEK

TIME	Monday	Tuesday	Wednesday	Thursday	Friday
08.30-12.30	Practice	Practice	Practice	Practice	Practice
14.00-14.50	Introduction to general anesthesia (Özge Köner)	Regional anesthesia and local anesthetics (Sevgi Bilgen)	Coma / Brain death (Sibel Temür)	Acid-base disorders and arterial blood gas evaluation (Özge Köner)	Basic Life Support (Sibel Temür)
15.00-15.50	Anesthetic agents (Özge Köner)	Pain (Ferdi Menda)	Sepsis (Sibel Temür)	Fluid-electrolyte balance (Özge Köner)	Advanced Life Support (Sibel Temür)

SECOND WEEK:

TIME	Monday	Tuesday	Wednesday	Thursday	Friday
08.00-12.30	Practice	Practice	Practice	Practice	Practice
14.00-14.50	Acute respiratory insufficiency (Murat Sayın)	Anaphylaxis (Ferdi Menda)	Anesthesia for the head trauma patient (Hatice Türe)	Intoxications (Özge Köner)	EXAM
15.00-15.50	Oxygen transport and hypoxia treatment (Murat Sayın)	Blood transfusion and complications (Ferdi Menda)	Thermoregulation (Hatice Türe)	Drowning and near drowning (Murat Sayın)	

HAYDARPAŞA NUMUNE TRAINING AND RESEARCH HOSPITAL
INFECTIOUS DISEASE AND CLINICAL MICROBIOLOGY(2 WEEKS)

Paşa Göktaş, MD Assoc. Prof.
Seyfi Çelik Özyürek, MD
Emin Karagül, MD
Nurgül Ceran, MD
Asuman Şengöz İnan, MD
Derya Öztürk Engin, MD
Özgür Dağlı, MD

LECTURES

1-Laboratory studies in infectious disease
2-Specimen selection,collection and processing in infectious disease
3-Direct and indirect diagnostic methods in infectious disease
4-Culture medium,identification of gram positive and gram negative microorganism's and mechanisms of antimicrobial resistance
5-The main stain methods in infectious disease
6-Central nervous system infections
7-HIV Infection and AIDS
8-Gastroenteritidis and food poisining
9-Tuberculosis
10-Nosocomial infections
11-İnfective endocarditis
12-Sepsis
13-Pneumonia
14-Brucellosis
15-Salmonellosis
16-Empirical antibiotic treatment
17-Acute viral hepatitis
18-Infections of the upper respiratory tract
19-Fever and fever of unknown etiology
20-Viral exantems
21-Dysinfection, sterilization and antisepsy
22-Crimean Congo Hemoragic Fever
23- H1N1 Influenza

AIMS

1-Laboratory studies in infectious disease
Learning objectives
You should be able to:
-Understanding of the importance of laboratory studies in infectious disease
-Understand how to help diagnosis of infectious disease
-Know how to manage the laboratory process

2-Specimens selection, collection and processing in infectious disease
Learning objectives
You should be able to:
-Know how to select a specimen in varies infectious disease
-Know how to collect the most apporiate specimen for diagnose of infectious disease
-Understand to the most apropriate period to send a specimen in a infectious disease

3-Direct and indirect diagnostic methods in infectious disease
Learning objectives
You should be able to:
-Know the direct and indirect diagnostic methods of infectious disease
-Know which method are the most specific and the mostsensitive for infectious disease
-Know the selection indications of diagnostic methods

4-Culture medium, identification of Gram positive and Gram negative microorganisms and the mechanisms of antimicrobial resistance
Learning objectives
You should be able to:
-Outline the main variety of culture medium in microbiologic diagnosis
-Know the prominent properties of different culture media
-Understand the basic principles of bacterial identifications
-Know how to manage Gram positive and Gram negative bacterial identification
-Know how to perform an antibiogram
-Understand how to recognize antimicrobial resistance mechanism
-Know the antimicrobial sensitivity test methods

5-The main stain methods in infectious disease
Learning objectives
You should be able to :
-The use of stain methods in microbiology
-Be prepared to the Gram stain,Acid fast stain and Giemsa stain
-Know the interprete a stained material.

6-Central nervous systems infections
Learning objectives
You should be able to:
-Classification of central nervous system infections
-Have understand of the pathophysilogy of central nervous system infections
-Know what to be etiologic agents of central nervous system infections
-Know the symptoms,signs and diagnosis of central nervous system infections
-Know it's treatment modalities
-Understand it's prognosis and know it's complications
-Be alert to the clinical presentations of acute of central nervous system infections

7-HIV and AIDS
Learning objectives
You should be able to:
-Undestand the basic structures of HIV and influence on cellular fusion
-Know the epidemiology of HIV in Turkey and in the world
-Know diagnostic tests for diagnosis of HIV infections
-Know the clinical features and clinical standing of the varies periods of the infection.
-Know how HIV disease progresses
-Know how correction between HIV and with immundeficiency
-Know the AIDS and the neoplastic disorders
-Know the main treatment and basic management strategies with HIV patients
-Know the prophylactic procedures related with HIV infections.

8-Gastroenteritidis and food poisoning
Learning objectives
You should be able to :
-Describe and classify of gastroenteritidis and food poisoning.
-Know the epidemiology of gastroenteritidis and know the etiologic agents in varies clinical features.
-Know the pathophysiology of gastroenteritidis
-Know how to diagnose of gastroenteritidis
-understand how to manage gastroenteritidis

9-Tuberculosis
Learning objectives
You should be able to:
-Describe the importance of tuberculosis for Turkey.
-Know the epidimiology and incidence of tuberculosis in the world and Turkey .
-Know the diagnostic methods and be able to diagnosis.
-To classify tuberculosis as pulmoner and extrapulmoner based on affected organ.
-Know the importance of antimicrobial resistance to M.tuberculosis.
-Know the antituberculous therapy and it's advers reactions.
Discribe the principles of management of tuberculosis.

10-Nosocomial infections
Learning objectives
You should be able to:
-Definition of nosocomial infections.
-Risk factors for nosocomial infections.
-Etiology and pathogenesis of nosocomial infections.
-Diagnosis and treatment for nosocomial infections.
-Strategies for prevention of nosocomial infections.

11-Infective endocarditis
Learning objectives
You should be able to :
-Distinguish between the different forms of infective endocarditis.
-Know the diagnostic and therapeutic approach to infective endocarditis.
Treat of infective endocarditis.
Know the indication for prophylaxis of infective endocarditis.

12-Sepsis
Learning abjectives
You should be able to:
-Know the definition of sepsis
-Etiology and pathophysiology of sepsis.
-Know how to distinguish patients with minor infections from those with life-threatening bacterial or fungal sepsis.
-Diagnose sepsis and septic shock clinically.
-Know the main complications of sepsis.
-İmplement the basic management strategies.

13-Pneumonia
Learning objectives
You should know:

-Etiology and pathogenesis of pneumonia
-Diagnose patients as having disease of pneumonia
-Outline the investigation and management

14-Brucellosis
Learning objectives
You should know:
-Clinical features of brusellosis
-Laboratory diagnosis of brucellosis
-Treatment

15-Salmonellosis
Learning objectives
You should know:
-Clinical features of salmonellosis
-Laboratory diagnosis of salmonellosis
-Treatment of salmonellosis

16-Empirical antibiotic treatment
Learning objectives
You should know:
-Clasification and side effects of antibiotics
-Clinical using of antibotics
-Understand the main principles of antibiotic management

17-Acute viral hepatitis
Learning objectives
You should know:
-Classification
-Clinical features (typical,atypical,fulminant)-
-Diagnosis
-Treatment and prophylaxis

18-Infections of the upper respiratory tract
Learning objectives
You should know:
Etiology,epidemiology,clinical manifestations,complications,diagnosis and treatment of
-Acut viral rhinitis (Common cold)
-Acute pharyngitis and tonsillitis
-Otitis media
-Sinusitis
-External otitis

19-Fever and fever of unknown etiology(FUO)
Learning objectives
You should know:
-Definition of fever
-Physiology of fever and associated responses
-Types of fever

-Definitions of unknown etiology
-Causes of FUO
-Approach of the FUO
-Laboratory and diagnosis aids in the FUO evaluation
-Miscellaneous diseases that cause FUOs
-Therapeutic drug trials in patients with FUO

20-Viral exantems
Learning objectives
You should know:
-Epidemiology,pathogenesis and pathology,clinical features,complications,diagnosis and management of
-Measles(Rubeola)
-Rubella
-Parvovirus B19 ınfections and Erytema Infectiosum
-Varicella virus ınfections
-Human Herpervirus Type 6 and Roseola (Exanthem Subitum)
21- Dysinfection, sterilization and antisepsy
You shouıld know
-Descriptions
-Methods
-Differences between procedures
22- Crimean Congo Hemoragic Fever
You should know
-Epidemiology
-Microbiological features
-Sign, symptoms
-Diagnosis
-Risk factors, precautions
23- H1N1 Influenza
You should know
-Definition for pandemy
-Update information for epidemiology
-Risk factors
-Precautions
-Biological basis of ınfluenza pandemy

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
DERMATOLOGY(2 weeks)

LESSONS

1. Basic structure & function of the skin and cutaneous signs

   Learning objectives:
   - Histology and embryology of the skin
   - Functions of the skin
   - Skin as an immunologic organ
   - Primary and secondary lesions

2. Principles of dermatologic diagnosis:

   Learning objectives:
   - Patient evaluation: History and physical examination
   - Types of skin lesions
   - Localization of lesions
   - Diagnostic tests
   - Biopsy and basic histopathology

3. Contact dermatitis

   Learning objectives:
   - Basic features of contact dermatitis: Definition, epidemiology and pathophysiology of allergic & irritant contact dermatitis
   - Clinical features
   - Diagnostic tests: Principles of patch testing
   - Differential diagnosis
   - Prevention and therapy

4. Urticaria and angioedema

   Learning objectives:
   - Classification of urticaria: Spontaneous urticaria (acute urticaria, chronic urticaria), physical urticaria, other urticarial diseases
   - Pathophysiology of urticaria and angioedema
   - Etiology and triggering factors
   - Diagnostic approach: The importance of history and physical examination, laboratory tests (which ones and when ?)
   - Hereditary angioedema: Clinical features, laboratory tests and treatment
   - Differential diagnosis
   - Treatment

5. Adverse cutaneous reactions to drugs

   Learning objectives:
   - Definiton and classification of drug-induced cutaneous reactions
   - Clinical features
   - Clinical and laboratory findings of severe, life-threatening drug-induced cutaneous eruptions
   - Diagnostic clues
   - Differential diagnosis
   - Prognosis and treatment

6. Atopic dermatitis

   Learning objectives:

- Definition, epidemiology and pathophysiology of atopic dermatitis
- Clinical features: Childhood, adolescent phase and adulthood
- The role of allergy in atopic dermatitis
- Diagnostic criteria
- The importance of skin tests in atopic dermatitis
- Prognosis and treatment

7. Connective tissue diseases

   Learning objectives:
   - Rapid review of hereditary connective tissue diseases (Ehlers-Danlos syndrome, cutis laxa, pseudoxanthoma elasticum)
   - Lupus erythematosus: Discoid lupus erythematosus, subacute cutaneous lupus erythematosus, systemic lupus erythematosus (clinical features, diagnosis, laboratory tests, differential diagnosis and treatment)
   - Dermatomyositis: Clinical fetures, diagnosis and therapy
   - Scleroderma: Localized and generalized types, diagnosis and therapy

8. Treatment modalities in dermatology

   Learning objectives:
   a. The description of indications, contraindications and usual dosages of commonly used topical and systemic therapies (antiinflammatory, antibacterial, antiviral, antifungal, antiprotozoal, immunosuppressive and immunomodulatory agents)
   b. Phototherapy
   c. Electrosurgery
   d. Cryotherapy

9. Papulosquamous skin disorders

   Learning objectives:
   a. The definition, clinical features, differential diagnosis and treatment of psoriasis, lichen planus, pityriasis rosea and seborrheic dermatitis.

10. Hair and nail disorders

    Learning objectives:
    a. Biology of hair growth
    b. Hair loss (alopecia): - Nonscarring alopecias (alopecia areata, androgenetic alopecia, telogen effluvium, anagen effluvium) – Primary cicatricial alopecias
    c. Excess hair growth: Hirsutism, hypertrichosis
    d. Normal nail apparatus
    e. Abnormal nail apparatus
    f. Local disorders of nail apparatus
    g. Nail apparatus involvement in cutaneous diseases
    h. Neoplasms of the nail apparatus

11. Syphilis and other sexually transmitted diseases

    Learning objectives:
    a. The definition, epidemiology, diagnostic clinical features, laboratory tests and treatment of syphilis, HIV infection, ulcus molle, lymphogranuloma venereum, granuloma inguinale, anogenital warts and genital herpes simplex infection.

12. Behçet's syndrome

    Learning objectives:
    a. The definition, epidemiology, pathophysiology, differential diagnosis and treatment of the oro-oculo-genital syndrome with high prevalence in Turkish people.

13. Precancerous skin disorders

    Learning objectives:
    a. The recognition of the diseases with the possibility of undergoing malignant transformation such as actinic keratoses, Bowen's disease, cutaneous horn, chronic radiation dermatitis, thermal keratoses, chronic cicatrix(scar), keratoses.

14. Skin cancers

    Learning objectives:
    a. Non-melanoma skin cancers: Basal cell carcinoma, squamous cell carcinoma
    b. Cutaneous T-cell lymphoma: Mycosis fungoides
    c. Kaposi's sarcoma
    d. Metastatic cancers of the skin: Carcinoma erysipelatoides, carcinoma en cuirasse, Sister Mary Joseph nodule, mammary paget's disease, extramammary Paget's disease.

15. Acne

    Learning objectives:
    a. The description and treatment of different types of acne such as neonatal and infantile acne, acne vulgaris, nodulo-cytic acne, acne conglobata, acne fulminans and other variants.
    b. The recognition of acneiform eruptions induced by several topical and systemic treatments and gram (-) folliculitis.

16. Pigmentation disorders (vitiligo and melasma)

    Learning objectives:

- Clinical features of vitiligo and melasma
- Differential diagnosis of vitiligo and melasma
- Diagnosis of vitiligo and melasma
- Treatment of vitiligo and melasma

17. Bacterial skin infections

    Learning objectives:

- Clinical features of bacterial skin diseases.
- Differential diagnosis of bacterial skin diseases.
- Diagnosis of bacterial skin diseases
- Treatment of bacterial skin diseases.

18. Viral skin diseases

    Learning objectives:

- Clinical features of viral skin diseases.
- Differential diagnosis of viral skin diseases.
- Diagnosis of viral skin diseases.
- Treatment of viral skin diseases.

19. Parasitic skin diseases

    Learning objectives:

- Clinical features of parasitic skin infestations.
- Differential diagnosis of parasitic skin infestations.
- Diagnosis of parasitic skin infestations.
- Treatment of parasitic skin infestations.

20. Fungal skin diseases

Learning objectives:

- Clinical features of fungal skin diseases.
- Differential diagnosis of fungal skin diseases.
- Diagnosis of fungal skin diseases
- Treatment of fungal skin diseases.

21. Chronic autoimmune blistering dermatoses

Learning objectives:

- Clinic features of autoimmune bullous diseases.
- Differential diagnosis of autoimmune bullous diseases.
- Diagnosis of autoimmune bullous diseases
- Treatment of autoimmune bullous diseases.

22. Melanocytic naevi and malign melanoma

Learning objectives:

- Clinic features of melanocytic nevi and neoplasms.
- Differential diagnosis of melanocytic nevi and neoplasms.
- Diagnosis of melanocytic nevi and neoplasms.
- Treatment of melanocytic nevi and neoplasms.

23. Cutaneous tuberculosis and leprosy

Learning objectives:

- Clinical features of cutaneous tuberculosis.
- Differential diagnosis of cutaneous tuberculosis.
- Diagnosis of cutaneous tuberculosis.
- Treatment of cutaneous tuberculosis.
- Clinical features of leprosy.
- Differential diagnosis of leprosy.
- Diagnosis of leprosy.
- Treatment of leprosy.

1. week		Asuman Cömert Erkılınç, MD Asistant Professor	Özlem Akın, MD Asistant Professor	M. Oktay Taşkapan; MD Professor
	Monday	Hospital	Bağdat Policlinic	Bağdat Policlinic
		14:30-17:00 Practice	11:00-11:50 Bacterial skin infections (1) 12:00-12:50 Bacterial skin infections (2) 14:30-17:00 Practice	09:00-09:50 Basic Structure & function of the skin and cutaneous signs 10:00-10:50 Principles of dermatologic diagnosis 14:30-17:00 Practice
	Tuesday	Bağdat Policlinic	Hospital	Bağdat Policlinic
		09:00-09:50 Acne 10:00-10:50 Behçet's syndrome 14:30-17:00 Practice	14:30-17:00 Practice	11:00-11:50 Contact dermatitis (1) 14:30-17:00 Practice
	Wednesday	Hospital	Bağdat Policlinic	Hospital
		14:30-17:00 Practice	09:00-09:50 Viral skin diseases (1) 10:00-10:50 Viral skin diseases (2) 11:00-11:50 Fungal skin diseases (1) 12:00-12:50 Fungal skin diseases (2) 14:30-17:00 Practice	14:30-17:00 Practice
	Thursday	Hospital	Bağdat Policlinic	Bağdat Policlinic.
			14:00-14:50 Parasitic skin diseases (1) 15:00-15:50 Parasitic skin diseases (2)	16:00-16:50 Urticaria and angioedema 17:00-17:50 Atopic dermatitis
	Friday	Bağdat Policlinic	Hospital	Bağdat Policlinic
		09:00-09:50 Papulosquamous skin disorders (1) 10:00-10:50 Papulosquamous skin disorders (2) 11:00-11:50 Precancerous skin disorders (1) 15:00-17:00 Practice	15:00-17:00 Practice	12:00-12:50 Connective tissue diseases (1) 15:00-17:00 Practice

2.week	Monday	Hospital	Bağdat Policlinic.	Bağdat Policlinic.
			09:00-09:50 Chronic autoimmune blistering dermatoses (1) 10:00-10:50 Chronic autoimmune blistering dermatoses (2)	11:00-11:50 Adverse cutaneous reactions to drugs (1)
		14:30-17:00 Practice	14:30-17:00 Practice	14:30-17:00 Practice
	Tuesday	Bağdat Policlinic.	Hospital	Bağdat Policlinic
		09:00-09:50 Treatment modalities in dermatology (1) 10:00-10:50 Pigmentation disorders (vitiligo and melasma) 11:00-11:50 Hair and nail disorders (1) 12:00-12:50 Hair and nail disorders (2)		
		14:30-17:00 Practice	14:30-17:00 Practice	14:30-17:00 Practice
	Wednesday	Hospital	Bağdat Policlinic.	Hospital
			09:00-09:50 Melanocytic naevi and neoplasms (1) 10:00-10:50 Melanocytic naevi and neoplasms (2) 11:00-11:50 Cutaneous tuberculosis and leprosy (1) 12:00-12:50 Cutaneous tuberculosis and leprosy (2)	
		14:30-17:00 Practice	14:30-17:00 Practice	14:30-17:00 Practice
	Thursday	Bağdat Policlinic	Hospital	Bağdat Policlinic
		9:00-9:50 Syphilis and other sexually transmitted diseases (1) 10:00-10:50 Syphilis and other sexually transmitted diseases (2) 11:00-11:50 Skin cancers (1)		
	Friday	Exam		

YEDİTEPE UNİVERSİTY MEDİCAL FACULTY AT TC SB ISTANBUL MEDENİYET UNİVERSİTY GOZTEPE EDUCATİON AND RESEARCH HOSPİTAL RADIOLOGY (2 weeks)

2011-2012 Programme for Radiology for the 5th Graders of

A. Lectures

Week 1:

Monday: No lectures

Tuesday: Introduction to Radiology. Assoc.Prof. Dr. Alper Hayirlioglu (900-940, 1000-1040)

Wednesday: Radiology of the Musculoskeletal System. Dr. Senem Senturk (1000-1040, 1100-1140)

Thursday: Radiology of the Pediatrics. Dr.Tunahan Ayaz (900-940,1000-1040)
Radiology of the Vascular System. Dr. Basak Atalay (1300-1440)

Friday: Radiology of the Gastrointestinal System. Dr.Ihsan Kuru (1000-1040, 1100-1140)

Week 2:

Monday: Neuroradiology. Dr. Begumhan Baysal. (1000-1040, 1100-1140)

Tuesday: Radiology of the Thorax. Dr. Canan Cimsit. (900-940,1000-1040)

Conventional Radiology of the Cranium, Thorax, and Spine. Dr. Hayri Abanonu (1300-1440)

Wednesday: Radiology of Obstetrics and Gynecology. Assoc.Prof. Dr. Alper Hayirlioglu (1000-1040, 1100-1140)

Thursday: Radiology of the Urogenital System. Dr.Ihsan Kuru (900-940,1000-1040)

Friday: Radiology Exam (930)

B. Practice

Week 1:

Monday: Introduction to Modalities in Radiology. Dr.Ihsan Kuru (900-1200), Assoc.Prof. Dr. Alper Hayirlioglu (1300-1600)

Tuesday: Practising MRI. Assoc.Prof. Dr. Alper Hayirlioglu (1300-1600)

Wednesday: Practising Doppler USG. Dr. Senem Senturk (1300-1600)

Thursday: Practising Radiology of the Pediatrics. Dr.Tunahan Ayaz (1300-1600)
Practising Radiology of the Breast. Dr. Basak Atalay (1100-1300,1500-1600)

Friday: Practising Interventional Radiology. Dr.Ihsan Kuru (1300-1600)

Week 2:

Monday: Practising USG Dr. Begumhan Baysal. (1300-1600)

Tuesday: Practising CT. Dr. Canan Cimsit. (1300-1600)

Practising Conventional Radiology. Dr. Hayri Abanonu (1100-1300, 1500-1600)

Wednesday: Practising Obstetrics USG. Assoc.Prof. Dr. Alper Hayirlioglu (1300-1600)

Thursday: Practising TV USG. Dr.Ihsan Kuru (1300-1600)

Friday: Radiology Exam (900-1000)

B. Practice

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
PHYSICAL MEDICINE AND REHABILITATION (2 Weeks)

ACADEMIC FACULY
DEPARTMENT OF PHYSICAL MEDICINE and REHABILITATION
Assoc. Prof. Dr. Ece Aydoğ
Assoc Prof. Dr. Duygu Geler Külcü
DURATION OF CLERKSHIP
Physical Medicine and Rehabilitation Clerkship takes place in the 5th year over a period of 2 weeks in the 5th year
GENERAL INFORMATIION ABOUT THE DEPARTMENT
The Department of Physical Medicine and Rehabilitation is located on the 1st floor of the Yeditepe University Hospital. Telephone no: 0126 5784100.
There is also aunit, within the ward , where physical therapy is provided for inpatients.
The outpatient service is below the 1st floor of the polyclinic building. We receive about 50 patients at the outpatient clinics on ech day.
1. AIM
Our aim is to supply clerkship students with knowledge and skills in the following topics:
Train the students in Physical Therapy and Rehabilitation methods and teach them to refer their patients to the correct department.
Teach the principles and methods used in evaluating and treating disorders of physical function (Orthopedic and Neurological Dysfunctions).
Train the student in physical disability cases and patient approach in such cases.
Point out the importance of "rehabilitation medicine " which is one of the most important three branches of medicine.
Teach the students how to acquire skills and knowledge about rheumatological diseases and patient rehabilitation.
Teach the students how to take a history, to perform the physical and motor system examination of patients who are referred to the Physical Medicine and Therapy Department (Rheumatologic and other disabilities).
Teach students how to formulate a diagnosis and which laboratory and other tests to ask for in order to analyze and apply the results such as neurophysiological tests, gait assessment.
Teach students the principles of maintaining a good patient doctor relationship.
2. LEARNING OBJECTIVES
2. 1. KNOWLEDGE OBJECTIVES
Diseases / Clinical Conditions Expected
Performance
1. Low Back Pain
2. Shoulder Pain
3. Osteoarthritis
4. Cauda Equina Syndrome
5. Fibromyalgia
6. Lumbar discs herniation
7. Connective Tissue Diseases
8. Crystal arthropathies
9. Ligament lesions,Achiles tendon
10. Rheumatoid arthritis
11. Septic arthritis
12. Spondyloarthropathies
13. Tenosynovitis
14. Stroke
15. Ischemic attacks (treatable)
16. Chronic fatigue syndrome
17. Motor neuron diseases
18. Myopathies
19. Multiple sclerosis
20. Cerebral palsy
21. Paraplegia- acute transverse myelitis

22. Parkinson's disease
23. Psychogenic pain (chronic)
24. Psychosomatic dysfunctions (functional syndromes)
25. Movement disorders
26. Peripheral neuropathy
27. Polynueropathies
28. Neural tube defects
29. Spinal muscular atrophy
30. Guillain –Barre Syndrome

2.2. CLINICAL SKILLS OBJECTIVES

A. Skills which the students must learn and or acquire, and tests which the student must be able to assess.

a. Take the history of a patient
b. Set up a file for a patient
c. Write a prescription (correctly and clearly)
d. Make specific neurological examinations (Examination of the reflexes, examination for neuropathy, examination of the senses, examination of the cranial nerves, aphasia examination, examination by Romberg test, cerebellar examination, gait and extrapyramidal system examination)
e. Musculo-skeletal system examination (general rheumatologic examination , evaluation of joint pain , oedema , inflammation, arthritis of the joints, motor dysfunction, and loss of physical function , gait assessment muscle tests , joint range of motion, examination of feet)
f. Drug administration (eg give a subcutaneous injection)
g. Transportation of patients with spinal injuries, and the principles of caring for a patient in the acute stages.

Intellectual Skills

a. Take a history relevant to the case and be able to ask rational guest ions .
b. Determine the relative urgency of a case .
c. Interpret the pulse rate
d. Evaluate sense and motor reflexes
e. Make a differential diagnosis.
f. Train the student to be able to choose relevant laboratory tests, and other diagnostic methods.
g. Assess validity of treatment
h. Assess response to medication
i. Follow up the patients response to medication
j. Adjust the medication dose for patients with liver and kidney disorders
k. Prescribe the correct radiodiagnostic test
l. Recognize which areas of the body are in an X-ray and why the X-ray has been taken
m. Evaluate X-ray
n. Provide primary health care services.

Communication Skills

a. Maintain a good relationship with colleagues and auxiliary health personnel.
b. Maintain a good relationship with the patient and his / her relatives.
c. Give the patient and his / her relatives' correct and adequate information about the disease.
d. Give the patient correct information about the disease and its treatment in a clear way.
e. Inform a diabetic patient about the importance of foot care.
f. General approach to the patient with cancer. Inform him / her about the effects of immobilization.

B. Skills which the students must acquire, be able to perform in requisite conditions.

a. Main principles of caring for patients with spinal injury, stroke, cerebral palsy, spina bifida, etc.
b. Care and treatment of wounds
c. Physical examination
d. Evaluation of joint stability
e. Assessment of patient's bone mineral density
f. Assessment of bone scintigraphy
g. Assessment of brain tomography

h. Assessment of cranial MR.
i. Scoring the rheumatological test results (RF, ANA, double-stranded DNA, ANCA, ASO, HLA-B27, etc)
j. Assessment of cervical, lumbar, AC and direct abdomen and peripheric joint graphies.
k. Philosophy of *"Rehabilitation"* and continuation of rehabilitation during life-time
l. Approach to disabled patient
m. Consider the patient as a whole within his own environment.
C. Interventions students must observe and become familiar with throughout their studies:
a. Aspiration of joint fluid
b. Electromyography and evoked potential testing.
c. Evaluation of muscle strength
d. Rehabilitation activities, use of physical therapy devices
e. Special P.M.R exercises
f. Pediatric rehabilitation

3. GENERAL INFORMATION ABOUT THE CLERKSHIP

The first day of the Clerkship is Orientation Day. Students are given general information concerning Physical Medicine and the teaching programme. Materials are distributed, the students are assigned specific duties and told what these will involve they are also given their first bedside training. They are divided into 2 groups. They have theoretical and practical bedside training. They work at the outpatient clinic and on the ward. They participate in educational activities (seminars, case discussions, journal club) once in a week , at the Department.

Educational Techniques

Theoretical classes, bedside training, seminars , practical classes, journal club hours, conferences.

3.1. WHAT WE EXPECT FROM THE STUDENTS

Students are expected to actively participate in the program. Throughout the clerkship the students must take part in hospital rounds, and clinical interventions at the polyclinic and private polyclinics. They must observe and become familiar with the interventions of the department. They must also participate in seminars.

4. ASSESSMENT

At the end of the Clerkship students are given a written examination. The exam consists of multiple choice questions a short essay, a modified essay, and long essay guest ions. The students are also assessed according to their performance during the clerkship. The passing grade is fifty out of 100.

5. REFERENCES FOR FURTHER STUDY

Beyazova M, Gökçe-Kutsal Y. Fiziksel Tıp ve Rehabilitasyon, Güneş Kitabevi, Ankara, 2000.
David J. Megee. Orthopedic Physical Assessment. W.B. Saunders Co., Philadelphia, 1997.
Hoppenfeld. Physical Examination of the spine and extremities. Appleton & Lange, Philadelphia, 1976.
Joel A. DeLisa, Bruce M. Gans. Rehabilitation Medicine. Lippincott-Raven, Philadelphia, 1998.
Randall L. Braddom. Physical Medicine and Rehabilitation. W.B. Saunders Company, Philadelphia, 2001.
Hochberg MC, Silman AJ, Smolen JS, Weinblatt ME, Weisman MH (Ed.). Rheumatology. Third Edition, Mosby, Edinburgh, 2003.

Learning objectives:

1. Musculoskeletal (locomotor) system symptom and signs
- Be able to take a history relevant to the case and be able to ask rational guest ions
- Determine the relative urgency of a case
- Be able to recognize the possible underlying pathology and to refer your patients to the correct department.

2. Musculoskeletal (locomotor) system examination
- Be able to do general rheumatologic examination , evaluation of joint pain, edema , inflammation, arthritis of the joints, motor dysfunction, and loss of physical function , gait assessment muscle tests , joint range of motion, examination of feet).

3. Enflammatory joint diseases
- Understand the etiopathogenesis
- Be able to distinguish between the different forms of inflammatory joint diseases and the diagnostic and therapeuric approach to each.
- Prescribe the correct radiodiagnostic test which laboratory and other tests to ask for in order to diagnose
- Write a treatment prescription (correctly and clearly)

4. Diagnosis and treatment of servical and upper extremity pain
- Remember the anatomy of cervical spine, shoulder, elbow and wrist joints

- Learn how to differentiate the origin of the pain
- Prescribe the correct radiodiagnostic test which laboratory and other tests to ask for in order to diagnose
- Formulate a differential diagnosis

- Write a treatment prescription (correctly and clearly)

5. Seronegative spondiloarthropathies
    - Understand the etiopathogenesis
    - Desribe diagnositc criteria
    - Learn how to formulate a differential diagnosis in between.
    - Be able to choose relevant laboratory tests, and other diagnostic methods.
    - Scoring the rheumatological test results (RF, ANA, double-stranded DNA, ANCA, ASO, HLA-B27, etc)
    - Write a treatment prescription (correctly and clearly)

6. Degenerative Arthritis

    - Understand the etiopathogenesis
    - Learn how to formulate a differential diagnosis from inflammatory joint disease
    - Assessment of cervical, lumbar, peripheric joint graphies.
    - Learn treatment choices (drug use, rehabilitation activities or use of physical therapy devices)

7. Osteoporosis and metabolic bone diseases
    - Understand the etiopathogenesis
    - Assessment of joint graphies and laboratory
    - Learn how to formulate a differential diagnosis Learn the risk factors for osteoporosis
    - Prevention from osteoporosis
    - Assessment of bone mineral dansitometry
    - Decision of appropriate medication for an individual patient
    - Exercise prescription of an osteoporotic patient

8. Differntial diagnosis and treatment of lowback and lower extremity pain
    - Remember the anatomy of lumbarl spine, hip and knee joints
    - Learn how to differentiate the nature of the pain
    - Formulate a differential diagnosis
    - Prescribe the correct radiodiagnostic test which laboratory and other tests to ask for in order to diagnose
    - Write a treatment prescription (correctly and clearly)

9. Pain pathophysiology classification and treatment
        - Learn pain pathways
        - Learn types of pain (talamic pain, neuropathic pain, radicular pain, referring pain, inflammatory pain)
        - Evaluation of pain
        - Treatment of different types of pain either medication or physical therapy
10. Therapeutic exercises and quality of life
        - Learn kinds of exercises (ROM exercises, muscle strengthening)isometric, isotonic, isocinetic) exercises, strengthening exercises, aerobic exercises, etc)
        - Learn benefits of different type of exercises
        - Learn how to prescribe exercise for an individual according to his diagnosis and physical examination
        - Approach to disabled patient
        - Consider the patient as a whole within his own environment.
        - Philosophy of "Rehabilitation" and continuation of rehabilitation during life-time
        - Learn how to evaluate patient's quality of life

11. Rehabilitation of neurologic diseases

- The etiology and classification of the neurologic disesases
- Evaluation of muscle strength, spasticity, examination of the reflexes, examination for neuropathy, examination of the senses, examination of the cranial nerves, aphasia examination, examination by Romberg test, cerebellar examination, gait and extrapyramidal system examination)
- Make decision of the patient's disability level.
- Decision of short-term and long-term goals for an individual
- Learn how to follow up progress of the patient
- Learn possible complications of a patient with neuerologic diseases and how to prevent and how to treat them.

12. Radiologic evaluation of musculoskeletal disorders
    - Learn how to evaluate radiography of spine and joints (Evaluation of osteoarthritis, Evaluation of spondilosis, spondilolisthesis, spondilolysis,scoliosis, evaluation of typical rheumatologic findings of spine and joints in Rheumatoid Arthiritis, ankylosing spondylitis and other spondiloarthropathies)
    - Evaluation of lomber and cervical disc hernies and spinal stenosis by MRI
13. Periferic nerve diseases
    - Symptomes and signs of peripheric nerve injuries and polyneuropathises
    - Rehabilitation principles for peripheric nerve injury
    - Treatment approaches

14. Diseases of spine and spinal cord
    - Remember the anatomy of spine and spinal cord
    - Diagnosing spondilosis, spondilolisthesis, spondilolysis and scoliosis according to symptoms, signs and diagnostic tests
    - Learn possible treatment choices
    - Assessment of a patient with spinal cord injury
    - Make decision of the patient's disability level.
    - Decision of short-term and long-term goals for an individual
    - Learn how to follow up progress of the patient
    - Learn possible complications of a patient with neuerologic diseases and how to prevent and how to treat them.

15. Drug use in musculoskeletal system disorders
    - Learn how to prescribe nonsteroid antiinflammatory drugs
    - Dosage, endication and contraendications and side effects of NSAIDs
    - Steroid use (endication, kontraendication, prescription, side effects)
    - Disease modifiying drugs (DMARDS) (endication, kontraendication, prescription, side effects)

16. Physical medicine agents and orthosis and prothetics in rehabilitation
    - Learn the benefits of physical medicine agents
    - Learn how to decide which physical agent for which patient
    - Endications and contraendications of physical agents
    - Kinds of orthosis and prothetics
    - The principles of using orthosis and prothetics
    - Learn how to prescribe which orthosis to which patient

FIRST WEEK

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-10:45	Musculoskeletal (locomotor)system symptom and signs Doç.Dr. D. G. Külcü	Seronegative spondyloarthropathies Doç.Dr E. Aydoğ	Diffirential diagnosis and treatment of lowback and lower extremity pain Doç.Dr E. Aydoğ	Diagnosis and treatment of servical and upper extremity pain Doç.Dr D. G. Külcü	Seminar Rehabilitation of Neurologic Diseases Doç.Dr D. G. Külcü
11:00-12:15	Musculoskeletal (locomotor) system examination Doç.Dr D. G. Külcü	Degenerative Arthritis Doç.Dr E. Aydoğ	Physical medicine agents And ortosis and prothetics in rehabilitation Doç.Dr E. Aydoğ	Radiologic evaluation of musculoskeletal disorders Doç.Dr D. G. Külcü	Diseases of spine and spinal cord Doç.Dr D. G. Külcü
13:30-16:30	Clinical practice	Clinical practice	Clinical practice	Clinical practice	Clinical practice

SECOND WEEK

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-10:45	Pain pathophysiology Classification and treatment Doç.Dr D. G. Külcü	Osteoporosis and metabolic bone diseases Doç.Dr E. Aydoğ	Periferic nerve diseases Doç.Dr E. Aydoğ	Clinical practice	Exam
11:00-12:15	Therapeutic exercises Doç.Dr D. G. Külcü	Drug use in musculoskeletal system disorders Doç.Dr E. Aydoğ	Enflammatory joint diseases Doç.Dr E. Aydoğ		
13:30-16:30	Clinical practice	Clinical practice	Clinical practice	Clinical practice	

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
NUCLEAR MEDICINE (1 week)

.

Nalan Alan Selcuk,MD, Assist. Prof.

Türkay Toklu, M.Sc.

1. Basic radiation physics and radiation detectors used in Nuclear Medicine
2. Introduction to Nuclear Medicine
3. Radiation safety and effects of radiation
4. Thyroid and parathyroid scintigraphy
5. Nuclear medicine in hyperparathyroidism
6. Nuclear medicine in thyroid carcinoma
7. Bone scintigraphy
8. İnfection imaging
9. Dynamic and static renal scan
10. Brain scintigraphy
11. Myocardial perfusion scan
12. Captoprail renography, transplant scan
13. Lung perfusion and ventilation scan (V/Q scan)
14. Hepatobiliary scan
15. GIS bleeding scan
16. FDG PET in oncology, cardiology and neurology
17. Radionuclide Therapy

1. Basic radiation physics and radiation detectors used in Nuclear Medicine

Learning objectives:

What is radiation? What is the type of radiation that we use in Nuclear Medicine?

2. Introduction to Nuclear Medicine

Learning objectives:

What is Nuclear Medicine and how we can obtain images?

3. Radiation safety and effects of radiation

Learning objectives:

Biological effects of radiation and how to work with radiation

4. Thyroid and parathyroid scintigraphy

Learning objectives:

Indications of thyroid and parathyroid scintigraphy

5. Nuclear medicine in hyperparathyroidism

Learning objectives:

Indications of parathyroid scintigraphy

6. Nuclear medicine in thyroid carcinoma

Learning objectives:

Treatment of well differentiated thyroid cancer.

7. Bone scintigraphy

Learning objectives:

Indications of bone scintigraphy

8. İnfection imaging

Learning objectives:

Indications of Tc99m HMPAO leukocyte and Indium 111 leukocyte scintigraphies

9. Dynamic and static renal scan

Learning objectives:

Indications of renal scintigraphy. Obstructive, infectious pathologies,

10. Brain scintigraphy

Learning objectives:

Indications of brain scintigraphy

11. Myocardial perfusion scan

Learning objectives:

Indications of myocard scintigraphy.

12. Captoprail renography, transplant scan

Learning objectives:

Applications of renal scintigraphy in renovascular hypertension and trasplante kidney

13. Lung perfusion and ventilation scan (V/Q scan)

Learning objectives:

This is an emergency in Nuclear Medicine. Pulmonary embolism can be shown by V/Q scan.

14. Hepatobiliary scan

Learning objectives:

Indications of hepatobiliary scintigraphy. It helps differentiating biliary atrezia from neonatal hepatitis by showing the pathway of bile. We can detect the function of liver

15. Gastrointestinal bleeding scan (GIS bleeding scan)

Learning objectives:

It is an emergency. By GIS bleeding scan, we can show the origin of the bleeding

16. FDG PET in oncology, cardiology and neurology

Learning objectives:

Indications of FDG-PET/CT in oncology (staging, restaging of cancer), in neurology (demans, epilepsy, brain tumor) and in cardiology (viability)

17. Radionuclide Therapy

Learning objectives:

Indications of radionuclide therapy in cancer, bone pain pallation, radiosynovectomy.

NUCLEAR MEDICINE (FIRST WEEK) EDUCATIONAL PROGRAM

1.Day

TIME	SUBJECT
09.00-10.30	Basic radiation physics and radiation detectors used in Nuclear Medicine
10.45-11.30	Practice: Radiation detectors, hotlab
11.30-12.00	Introduction to Nuclear Medicine
13.00-13.30	Practice: Radiopharmaceuticals, Gamma Camera, PET/CT, Thyroid Uptake System
13.45-14.30	Radiation safety and effects of radiation
14.45-15.30	Brain İmaging and neurologic PET Application
15.45-16.30	Bone scintigraphy and other tumor agents

2.Day

09.00-10.00	Thyroid and parathyroid Scintigraphy
10.15-10.45	Nuclear Medicine in Hyperthyroidism
11.00-11.30	Nuclear Medicine in Thyroid Cancer
11.30-12.00	Practice: Thyroid
13.00-13.45	FDG-PET in lung cancer
14.00-14.45	FDG-PET in breast cancer
15.00-16.30	Practice: PET imaging

3.Day

09.00-10.00	Myocardial perfusion scan (MPS): Indications, techniques
10.15-11.00	Practice: MPS
11.15-12.00	Cardiologic PET Application
13.00-14.00	Lung perfusion and ventilation scintigraphy (V/Q scan)
14.15-15.30	Hepatobiliary scan and GIS Bleeding Scan
15.40-16.30	Practice: Lung and GIS system imaging

4.Day

09.00-09.45	Dynamic and static renal scintigraphy
10.00-10.45	Captopril Renography and Transplant Scan
11.00-12.00	Practice: Renal scintigraphy
13.00-13.45	Radionuclide Therapy
14.00-14.45	FDG-PET in lymphoma
15.00-16.30	Practice: Radionuclide therapy

5.Day

09.00-09.45	İnfection İmaging part 1: FDG-PET,
10.00-10.45	İnfection İmaging part 2: Leucocyte and Gallium 67 Scintigraphies
11.00-12.00	Practice : infection imaging
13.00-13.45	FDG-PET in Head and Neck Cancer
14.00-14.45	FDG-PET in GIS and gynecologic cancers
15.00-16.00	Practice: PET imaging
16.00-17.00	EXAM

MD LÜTFİ KIRDAR KARTAL TRAINING AND RESEARCH HOSPITAL RADIATION ONCOLOGY(1 Week)

Alpaslan Mayadağlı , MD. (Chief)
Cengiz Gemici, MD. (Course Coordinator)
Sevgi Özden, MD.
Mihriban Koçak, MD.
Makbule Eren, MD.
Hazan Özyurt, MD.
Atınç Aksu, MD.
Naciye Özşeker, MD.
Saliha Peksu, MD.

1. Introduction to Radiation Oncology
2. Basic terminology
3. Physics and biology of therapeutic radiation
4. Radiation treatment planning
5. Types of therapeutic radiation
6. Cancer types and role of radiotherapy in cancer management
7. Combined treatment with chemotherapy and radiation and its importance in organ preservation
8. Role of radiotherapy in cancer palliation and pain
9. Role of radiotherapy in benign diseases
10. New technology and its role in cancer management

IME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:40 10:30	Introduction and Radiation Oncology Terminology **CENGİZ GEMİCİ,MD**	Types of Radiotherapy **ATINÇ AKSU,MD**	Breast Cancer **HAZAN ÖZYURT,MD**	Lymphomas **HAZAN ÖZYURT,MD**	RT of Benign Diseases **SEVGİ ÖZDEN,MD**
10:40 11:30	Basics of Radiation Physics **ATINÇ AKSU,MD**	External beam radiation and brachytherapy **HAZAN ÖZYURT,MD**	Lung Cancer Mihriban Koçak, MD	Gynecologic Cancers Makbule Eren, MD.	Skin Cancer **ATINÇ AKSU,MD**
11:40 12:30	Basics of Radiation Biology **CENGİZ GEMİCİ ,MD**	3-D Conformal RT,Intensity Modulated RT,Sterotaxic Radiosurgery **SEVGİ ÖZDEN ,MD**	Gastrointestinal Cancers **CENGİZ GEMİCİ ,MD**	Urinary System Cancers **NACİYE ÖZŞEKER,MD**	Student Presentations **CENGİZ GEMİCİ ,MD**
13:40 14:30	Treatment Plannig and Aim of Simulation **ATINÇ AKSU ,MD**	Cancer Management, Cancer Treatment Options **SEVGİ ÖZDEN ,MD**	Head and Neck Cancers **SALİHA PEKSU ,MD**	Pediatric Cancers **HAZAN ÖZYURT,MD**	Student Presentations **CENGİZ GEMİCİ,MD**
14:40 15:30	Treatment Set-up,Simulation Procedure **ALPASLAN MAYADAĞLI ,MD**	Radioprotection, Radiosensitization **CENGİZ GEMİCİ,MD**	Brain Tumors **NACİYE ÖZŞEKER,MD**	Palliative Radiotherapy **NACİYE ÖZŞEKER ,MD**	Quiz **CENGİZ GEMİCİ,MD**
15:40 16:30	Radiation Techniques **ATINÇ AKSU,MD**	Clinical Practice 1. **HAZAN ÖZYURT,MD**	Clinical Practice 2. **NACİYE ÖZŞEKER,MD**	Clinical Practice 3. **SEVGİ ÖZDEN ,MD**	Discussion **ALPASLAN MAYADAĞLI,MD**

HAYDARPAŞA NUMUNE TRAINING AND RESEARCH HOSPITAL
PSYCHIATRY (2 weeks)

EDUCATİON SCHEDULE AND AİMS

1. Introduction to psychiatry and history of psychiatry
2. Psychiatric ethics and patient-physician relations
3. Psychiatric interview and mental status examination
4. Signs and symptoms in psychiatry
5. Diagnosis and classification of psychiatric disorders
6. Mental disorders due to a general medical condition
7. Schizophrenia and other psychotic disorders
8. Alcohol related disorders
9. Substance abuse and related disorders
10. Mood disorders
11. Anxiety disorders
12. Psychiatric emergencies
13. Somatoform disorders, factitious disorders and simulation
14. Eating and sleep disorders
15. Somatic therapies
16. Dissociative disorders
17. Sexual disfunctions, paraphilias and gender identity disorders
18. Impulse-control and adjustment disorders
19. Psychopharmacology
20. Forensic psychiatry
21. Consultation-Liaison psychiatry and geriatic psychiatry
22. Psychoterapies
23. Child and adolescent psychiatry
24. Personality disorders

1. Introduction to psychiatry and history of psychiatry

Educational aims:

a. The importance of psychiatry in general heath practice
b. Overwieving psychiatric health and treatment procedures from old times to present

2. Psychiatric ethics and patient-physician relations

Educational aims:

a. Overwiev of ethical issues and problems in psychiatric ethics
b. Important points to be taken into consideration for patient-physician relationship to be stong and effective

3. Psychiatric interview and mental status examination

Educational aims:

a. Psychiatric interview, history and mental status examination

4. Signs and symptoms in psychiatry

Educational aims:

a. Evaluation of psychiatric semptomatology and signs and symptoms of psychiatric disorders

5. Diagnosis and classification of psychiatric disorders

Educational aims:

a. Evaluation of frequently used diagnostic measures in psychiatry
b. Classification of disorders using these diagnostic measures

6. Mental disorders due to a general medical condition

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of mental disorders due to general medical condition like delirium, dementia and amnestic sendroms

7. Schizophrenia and other psychotic disorders

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of psychotic disorders like schizophrenia schizoaffective disorder and delusional disorder

8. Alcohol related disorders

Educational aims:

a. Overwiev of alcohol addiction, abuseand alcohol related other disorders

9. Substance abuse and related disorders

Educational aims:

a. Overwiev of frequently seen addictive substances
b. Psychiatric disorders seen related to these substances

10. Mood disorders

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of mood disorders (both in depresive and bipolar mood disorders)

11. Anxiety disorders

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of panic disorder, generelized anxiety disorder, social fobia and post-traumatic disorders which are the most frequently seen anxiety disorders

12. Psychiatric emergencies

Educational aims:

a. Differential diagnosis and treatment of pscyhiatric emergencies

13. Somatoform disorders, factitious disorders and simulation

Educational aims:

a. Differential diagnosis and treatment of somatoform disorders, factitious disorders and simulation

14. Eating and sleep disorders

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of eating disorders like anorexia nervosa and bulimia nervosa and sleep disorders like parasomnias and dissomnias

15. Somatic therapies

Educational aims:

a. Overview of somatic therapies especially electro-convulsive therapy (ECT)

16. Dissociative disorders

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of dissociative disorders like dissosiative amnesia, fugue and dissociative identity disorder

17. Sexual disfunctions, paraphilias and gender identity disorders

Educational aims:

a. Differential diagnosis and treatment of sexual disfuntions like vaginismus, prematür ejaculation, erektile disfunction; paraphilias and sexual identity disorders

18. Impulse-control and adjustment disorders

Educational aims:

a. Etiology, diagnosis, symptoms and treatment of impulse control disorders like intermittant explosive disorder, trichotillomania, kleptomania and adjustment disorders

19. Psychopharmacology

Educational aims:

a. Overwiev of anti-psychotic, anti-depressant, anxiolytic and mood-stabilizing agents used in psychiatric treatment

20. Forensic psychiatry

Educational aims:

a. Overwiev of important issues on the criminal code and civil code concerning psychiatry

21. Consultation-Liaison psychiatry and geriatic psychiatry

Educational aims:

a. Important issues on consultation psychiatry in general hospitals and differential diagnosis and treatment of these diseases
b. Overview of psychiatric disorders of the elderly and clinical approach to the elderly patients

22. Psychoterapies

Educational aims:

a. The evaluation of the psychoterapies in history and overview of therapy techniques

23. Child and adolescent psychiatry

Educational aims:

a. Overview of frequently seen disorders in child and adolescent psychiatry

24. Personality disorders

Educational aims:

a. Clinical evaluation and differential diagnosis of personality disorders

I. WEEK					
	MONDAY	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRİDAY**
08:40 – 09:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
09:40 – 10:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
10:40 – 11:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
11:30 – 12:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
13:40 – 14:30	Introduction to psychiatry and history of psychiatry Dr. Mecit ÇALIŞKAN	Signs and symptoms in psychiatry Dr. Cem CERİT	Schizophrenia and other psychotic disorders I Dr. Cem CERİT	Substance abuse and related disorders Dr. Gonca ERKIRAN	Anxiety disorders I Dr. Figen ATALAY
14:40 – 15:30	Psychiatric ethics and patient-physician relations Dr. Mecit ÇALIŞKAN	Diagnosis and classification of psychiatric disorders Dr. Cem CERİT	Schizophrenia and other psychotic disorders II Dr. Cem CERİT	Mood disorders I Dr. Melike NEBİOĞLU	Anxiety disorders II Dr. Figen ATALAY
15:40 – 16:30	Psychiatric interview and mental status examination Dr. Melike NEBİOĞLU	Mental disorders due to a general medical condition Dr. Melike NEBİOĞLU	Alcohol related disorders Dr. Gonca ERKIRAN	Mood disorders II Dr. Melike NEBİOĞLU	Psychiatric emergencies Dr. Gonca ERKIRAN
16:30 – 17:30					

II. WEEK					
	MONDAY	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRİDAY**
08:40 – 09:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
09:40 – 10:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
10:40 – 11:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
11:30 – 12:30	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE	PRACTİCE
13:40 – 14:30	Somatoform disorders, factitious disorders and simulation Dr. Melike NEBİOĞLU	Dissociative disorders Dr. Cem CERİT	Psychopharmacology Dr. Melike NEBİOĞLU	Psychoterapies Dr. Melike NEBİOĞLU	PRACTİCE
14:40 – 15:30	Eating and sleep disorders Dr. Melike NEBİOĞLU	Sexual disfunctions, paraphilias and gender identity disorders Dr. Cem CERİT	Forensic psychiatry Dr. Mehmet ÜÇIŞIK	Child and adolescent psychiatry Dr. Figen ATALAY	PRACTİCE
15:40 – 16:30	Somatic therapies Dr. Gonca ERKIRAN	Impulse-control and adjustment disorders Dr. Figen ATALAY	Consultation-Liaison psychiatry and geriatic psychiatry Dr. A. Mehmet ÜÇIŞIK	PRACTİCE	PRACTİCE
16:30 – 17:30					

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
CHILD AND ADOLESCENT PSYCHIATRY(1 week)

Emine Zinnur Kılıç, MD.
Oğuzhan Zahmacıoğlu , MD.

EDUCATION SCHEDULE AND AIMS

1. Introduction to child and adolescent psychiatry
2. Psychiatric assessment of the child
3. Understanding normal and deviant mental development
4. Risk and protective factors in child mental development
5. Assessing families
6. Child abuse and neglect
7. Normal development in adolescence
8. Common adolescent problems and relations with family
9. Pervasive developmental disorders
10. Mental retardation
11. Attention deficift hyperactivity disorder and conduct disorder.
12. Tics and Tourette's disorder
13. Enuresis and encopresis
14. Seperation anxiety disorder and other childhood anxiety disorders.
15. Mood disorders in childhood and adolescence
16. Psychiatric treatments of child and adolescent mental disorders:

a) Pscyhotherapies
b) Pharmacologic treatments

1. Introduction to child and adolescent psychiatry

a) Learning about the issues of child and adolescent psychiatry
b) Understanding the importance of child and adolescent psychiatry as a preventive discipline for promoting community mental health.
c) Learning about common childhood psychiatric problems.

2. Psychiatric assessment of the child

AIMS:
a) The importance forming a relationship with the child and family
b) History taking from the child and family
c) Learning about commonly used tests in assessing children

3. Understanding normal and deviant mental development

AIMS:
a) Learning about normal child developmental stages
b) Learning about the importance of the healt-care professionals in promoting healthy mental development.
c) Understanding the differences between normal and abnormal child development.

4. Risk and protective factors in child mental development

AIMS:
a) Understanding the risk factors that have a negative impact on mental health and development.
b) Understanding the importance of protective factors and health-professionals role in creating a protective environment for the child.

5. Assessing families

AIMS:
a) Understanding the importance of the family in child development
b) The importance of forming positive relations with the family for health-care professional
c) Understanding developmental stages and common problems of the families.
d) Using genogram to assess families.

6. Child abuse and neglect

AIMS:

a) Understanding childrens's rights and role of health care professional in child protection issues.
b) Understanding the negative impact of child abuse and neglect on child mental development.
c) Being able to correctly identify the signs of child abuse and neglect.

7. Normal development in adolescence

AIMS:

a) Learning about the importance of knowing normal adolescent development when dealing with the adolescent patient.
b) Understanding the developmental changes in adolescence.
c) Differentiating age related problems of adolescence from psychiatric disorders.
d) Learning to relate to an adolescent patient.
e) Understanding the importance of promoting healthy development in adolescence in preventive psychiatry.

8. Common adolescent problems

AIMS:

a) Learning about the problems that may be a matter of concern for adolescent age group.
b) Understanding the problems of the adolescent and his/her family.

9. Pervasive developmental disorders

AIMS:

a) Being able to identify the signs and symptoms of autism and other pervasive developmental disorders.
b) Being able to give guidance to autistic child's family

10. Mental retardation

AIMS:

a) Learning about the etiology of mental retardation.
b) Learning about the professional approach to mentally retarded patient.
c) Learning about assessment of mental retardation.

11. Attention deficit hyperactivity disorder and conduct disorder

AIMS:

a) Learning about the etiology and treatment of ADHD
b) Being able to identify the signs and symptoms of ADHD
c) Being able to identify the signs and symptoms of conduct disorder
d) Understanding the relationship of conduct disorder and adolescent delinquency

12. Tics and Tourette's disorder

AIMS:

a) Learning about the etiology and treatment of movement disorders of childhood.
b) Being able to identify the signs and symptoms of movement disorders.

13. Enuresis and encopresis

AIMS:

a) Understanding the normal and abnormal development of bladder and bowel control.
b) Learning the approach to enuretic child and the family.
c) Learning about the etioloy of encopresis.
d) Learning about the treatment of enuresis and encopresis.

14. Seperation anxiety disorder and other childhood anxiety disorders

AIMS:

a) Understanding the role of anxiety in normal child development.
b) Understanding the importance of the attachment process in healthy development.
c) Differentiating pathological anxiety from normal developmental anxiety.
d) Understanding the etiology of seperation anxiety disorder.
e) Learning about the approach to anxious child and family.
f) Learning about childhood fears and phobias.
g) Learning about the treatment of childhood anxiety disorders.

15. Mood disorders in childhood and adolescence
AIMS:

a) Being able to identify the signs and symptoms of depression and mani in children and adolescents.
b) Learning about the etiology and treatment of mood disorders in childhood and adolescent.
c) Understanding the importance of diagnosing mood disorders in children and adolescents in terms of preventive mental health care.

16. Psychiatric treatments of child and adolescent mental disorders.
AIMS:

a) Psychotherapies
b) Pscyhopharamcologic treatments

a) Learning about the importance of psychotherapy in child and adolescent pscyhiatry.
b) Learning about family therapy, behavioral approaches to child mental disorders, cognitive therapy, play therapy and family guidance.
c) Understanding the basic principles of drug treatments in child and adolescent pscyhiatry.
d) Learning about the pharmacologic agents that are used for child mental health disorders.

I. WEEK					
	MONDAY	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRİDAY**
08:40 – 09:30	PRACTICE	PRACTICE	PRACTICE	PRACTICE	PRACTICE
09:40 – 10:30	PRACTICE	PRACTICE	PRACTICE	PRACTICE	PRACTICE
10:40 – 11:30	PRACTICE	PRACTICE	PRACTICE	PRACTICE	PRACTICE
11:30 – 12:30	PRACTICE	PRACTICE	PRACTICE	PRACTICE	PRACTICE
13:40 – 14:30	Introduction to child and adolescent psychiatry Psychiatric assesment of the child. **E.Z.Kılıç**	Risk and protective factors in child mental development **E.Z.Kılıç**	Normal development in adolescence **E.Z.Kılıç**	Attention deficift hyperactivity disorder and conduct disorder. **O.Zahmacıoğlu**	. Seperation anxiety disorder and other childhood anxiety disorders. **E.Z.Kılıç**
14:40 – 15:30	Understanding normal and deviant mental development **E.Z.Kılıç**	Assessing families **E.Z.Kılıç**	Common adolescent problems and relations with family **E.Z.Kılıç**	Pervasive developmental disorders **O.Zahmacıoğlu**	Psychiatric treatments of child and adolescent mental disorders: Pscyhotherapies and Pharmacological treatments **E.Z.Kılıç**
15:40 – 16:30	Mental retardation O.Zahmacıoğlu	Child abuse and neglect **O.Zahmacıoğlu**	Mood disorders in childhood and adolescence *O.Zahmacıoğlu*	Tics and Tourette's disorder Enuresis and encopresis **O.Zahmacıoğlu**	**EXAM**

EYE DISEASES

INSTRUCTURS

Prof. Ferda Çiftçi
Prof. Demir Başar
Prof. Belkıs Ilgaz Yalvaç
Prof. Sinan Tatlıpınar
Assoc.Prof. Şule Ziylan
Assoc.Prof. Raciha Beril Küçümen
Assoc.Prof. Umut Aslı Dinç
Assist.Prof. Canan Aslı Yıldırım (Utine)
Assist.Prof. Deniz Oral
Assist.Prof. Ebru Görgün
Assist.Prof. Muhsin Altunsoy
Assist.Prof. Nursal Melda Yenerel
Assist.Prof. Vildan Öztürk

SUBJECTS

Anatomy and Methods of Examination
Refractive Errors
Lids and Orbit
Tear Film and Lacrymal Apparatus
Conjunctiva and Cornea
Uveal Tract
Dieases of the Lens
Glaucoma
Retinal Vascular Diseases
Macular Degenerations and Retinal Dystrophies
Retinal Detachment
Pediatric Ophthalmology and Strabismus
Neuro –Ophthalmology
Ophthalmological Emergency and Trauma

Anatomy and Methods of Examination

Learning Objectives:

1.The anatomy of the eye and the orbit
2.The main ophthalmic examination methods

You should be able to:

- Learn essentials of ocular anatomy,
- Measure and record visual acuity,
- Asses pupillary reflexes,
- Evaluate ocular motility,
- Use ophthalmoscope for fundus examination and assesment of the red reflex,
- Evaluate visual fields by confrontation.

Refractive Errors

Learning Objectives:

1.Emmetropia
2.Hyperopia
3.Astigmatism
4.Presbyopia
5.Their corrections

You should be able to:

As a primary care physician, basic knowledge on the refractive errors, their roles in decreased visual acuity and the means of correcting the refractive errors is essential.
After taking this class, the medical students should be able to know and interprete on:

- The refractive elements of the eye and emmetropisation process,
- The classification and etiologies of refractive errors,
- The options in rehabilitation of the refractive errors of the eye; which include spectacles, contact lenses and different types of refractive surgery.

Diseases of the Eyelids and Orbit

Learning Objectives

1.Disesas of eyelids

- Tumors
- Infections
- Malpositions
- Motility problems

2.Diseases of the orbit

- Inflamatory disorders
- Diagnosis and differential diagnosis of orbital pathologies

You should be able to:

- Learn the definitions and differential diagnosis of the benign lesions and malpositions of the eyelids, disorders of the eyelashes and eyelid tumors,
- Understand the etiological factors that play role in eyelid pathologies, to see examples of clinical findings and to understand the general principles of treatment,
- Know the general classificaton of the inflammatory and infectious disorders of the orbita,
- Learn the diagnostic approaches, differential diagnosis and principles of treatment in orbital pathologies,
- See the clinical signs and to know the general management approaches to thyroid related orbitopathy.

Tear Film and Lacrymal Apparatus

Learning objectives

1.The tear-forming and tear-conducting system

- Lacrimal glands,
- Eyelid margins,
- Conjunctival sac,
- Tear drainage system.

2.Dry eye syndrome

- Symptoms
- Detection and Diagnosis
- Etiology
- Treatment Surgery

3.Infections of Lacrimal Passages

- Symptoms
- Detection and Diagnosis
- Etiology

a) Congenital nasolacrimal duct obstruction
b) Congenital dacryocele
c) Chronic canaliculitis
d) Dacryocystitis

- Treatment Surgery

You should be able to:

- Know the definition of lacrimal apparatus**:** The tear-forming and tear-conducting system which includes the lacrimal glands, eyelid margins, conjunctival sac, and the tear drainage system,
- Examine glands in the upper eyelids which produce aqueous tears(the watery middle layer of the tear film),

- Obtain tear production system and tear film,
- Evaluate the nasolacrimal drainage system.

Conjunctiva and Cornea

A.- Disorders of the conjunctiva

Learning objectives

1. Infections (various forms of conjunctivitis)
2. Allergic conjunctivitis
3. Degenerative lesions (Pterygium)
4. Pigmented lesions and tumours
5. Conjunctival hemorrhage and red eye

You should be able to:

- Describe the classification of conjunctivitis and forms of conjunctival infections
- Set out the major causes of conjunctivitis and their treatment
- Describe conjuctival hemorrhage, pterygium, red eye and their differential diagnosis

B- Disorders of the cornea

Learning objectives

1. Infections (keratitis)
2. Ectatic corneal diseases
3. Dystrophies and degenerations
4. Corneal surgery

You should be able to:

- Describe the classification of keratitis and forms of corneal infections
- Set out the major causes of keratitis and their treatment
- Describe ectatic corneal diseases
- Describe different sorts of corneal surgery

Diseases of the Uveal Tract

Learning objectives

1. Anatomy
2. Classification of uveitis
3. Clinical aspects of uveitis
4. Etiology of uveitis
5. Work-up for uveitis
6. Treatment

You should be able to:

- Describe the anatomy of the uveal tract,
- Describe the physiology of the uveal tract,
- Describe the possible pathologies of the uveal tract,
- Describe the classification of uveitis according to the location,
- Describe the classification of uveitis according to the onset of symptoms,
- Describe the findings of uveitis,
- Describe the clinical findings of the ophthalmological examination,
- Describe the etiology of uveitis,
- Set the major systemic diseases causing uveitis,
- Describe the available treatment options.

Diseases of the Lens

Learning objectives

1. Classification of lens diseases
2. Clinical aspects of lens diseases
3. Work-up for lens diseases
4. Treatment Surgery

You should be able to:

- Describe the anatomy of the lens,
- Describe the physiology of the lens,
- Describe the classification of lens diseases and cataracts(congenital,traumatic,senile,toxic..),
- Describe the clinical findings of lens diseases,
- Describe the clinical findings of ophthalmological examination of the lens,
- Know the systemic diseases causing cataract,
- Know the systemic diseases causing lens luxations,
- Discuss the ancillary and diagnostic tests for the diadnosis of cataract,
- Describe the basics of treatment modalities.

Glaucoma

Learning objectives

1.Description of glaucoma
2.Classification of glaucoma
3.Clinical astpects of glaucoma
4.Treatment Surgery

You should be able to:

- Describe the glaucoma and its classification,
- Interpret the common symptoms and signs of glaucoma and construct a differential diagnosis of glaucoma based on clinical presentations,
- Disscuss the genetical aspects of adult and congenital glaucomas,
- Set out the principles of medical and surgical management of the glaucoma.

Retinal Vascular Diseases

Learning objectives:

1. Retinal vascular anatomy
2. Classification
3. Clinical aspects
4. Treatment modalities

You should be able to:

- Become familiar with the retinal vascular anatomy and important landmarks.
- Recognize the ocular signs, symptoms and complications of the most common systemic diseases that are associated with retinal vascular pathologies, such as diabetes mellitus and hypertension.
- Determine when it is appropriate to refer a patient to an ophthalmologist for consultation or treatment.

Macular Degenerations and Retinal Distrophies

Learning objectives

1. Clinical aspects of macular degenerations and hereditary retinal dystrophies
2. Classification
3. Etiology
4. Treatment

You should be able to:

- Describe the classification of macular degenerations and hereditary retinal dystrophies,
- Describe the findings of macular degenerations and hereditary retinal dystrophies,
- Describe the clinical meanings of the ophthalmological examination,
- Describe the known etiological factors of macular degenerations and hereditary retinal dystrophies,
- Describe the work-up for macular degenerations and retinal distrophies,
- Discuss the ancillary and diagnostic tests used in ophthalmology for the recognition/differential diagnosis of macular degenerations and hereditary retinal dystrophies,
- Know the treatment options

Retinal Detachment

Learning Objectives

1. Anatomical consideration
2. Pathogenesis of tear formation
3. Importance of vitreo-retinal changes
4. Visual impairment due to detached retina

You should be able to:

- Answer what keeps the retina attached,
- Describe anatomical alterations and mecanical forses leading to retinal breaks,
- Understand the role of aging processes in vitreus and retina,
- Know the fluid dynamics within the eye leading to detachment,
- Surgical treatment

Tumors of the Eye

Will be covered under related topics.

Pediatric Ophthalmology and Strabismus

Learning Objectives

Strabismus:

1.Esodeviations
- Infantile strabismus
- Accomodative Esotropia
- Non-accomodative Esotropia
- Incomitant Esotropia

2. Exodeviations
3. Vertical deviations
4. Special forms of strabismus
5. Treatment
6. Visual acuity examination in babies and little children
7. Retinopathy of prematurity
   - Etiology,
   - Diagnosis and treatment

8. Eye tumours in children
   - Retinoblastoma

You should be able to :

- Explain clinical forms of strabismus, when and how it happened, which types of strabismus needs eye glasses and can be treated with eye glasses, which types of strabismus may need surgery, and the clinical aspects of the special forms of strabismus.

Ocular muscles:

1. The anatomy of the eye muscles
2. Movement of eye muscles
3. Innervation of eye muscles

You should be able to:

- Describe the anatomy of eye muscles and their innervations, explain the movement of the eyes,
- Muscle actions in gaze positions,
- Evaluate the need for examination of children considering eye diseases such as retinoblastoma ,
- Retinopathy of prematurity.

Neuro –Ophthalmology

Learning objectives

1. The classification of neuroophthalmologic diseases
2. The neuroophthalmologic examination methods
3. The clinical aspects of basic neuroophthalmologic diseases

You should be able to:

- To perform a basic neuro-ophthalmic examination and recognize and interpret the more common signs and symptoms of neuro-ophthalmic disorders,
- To examine pupillary reactions,
- To test the function of the extraocular muscles,
- To evaluate visual fields by confrontation,
- To inspect the optic nerve head by direct ophthalmoscopy and differentiate major alterations.

Ophthalmological Emergencies and Trauma

Learning objectives

1. The classification of ophthalmological emergency states
2. First aid knowledge and skills in ophthalmological emergency and traumas
3. To plan the next steps after first aid interventions and refer the patient to appropriate clinics

You should be able to

- Classify the ophthalmological emergency and trauma states in terms of severity and emergency,
- Perform full first aid measures in chemical burns,
- Know the possible systemic associations of ophthalmological emergencies and traumas, order required laboratory and imaging work-up, refer the patients to appropriate clinics

THEORETICAL EDUCATION PROGRAMME

(2011-2012)

WEEK 1	DAY	SUBJECT	LECTURER
	1	Anatomy and Methods of Examination	M. ALTUNSOY
	2	Lids and Orbit	D. ORAL
	3	Refractive Errors	C.A.UTİNE
	4	Tear Film and Lacrymal Apparatus	F. ÇİFTÇİ
	5	Uveal Tract	A.UMUT DİNÇ

WEEK 2	DAY	SUBJECT	LECTURER
	1	Diseases of the Lens	B. KÜÇÜMEN
	2	Glaucoma	B. I. YALVAÇ
	3	Conjunctiva and Cornea	V.ÖZTÜRK
	4	Retinal Vascular Diseases	M. YENEREL
	5	Macular Degeneration and Hereditary Retinal Dystrophies	S.TATLIPINAR

WEEK 3	DAY	SUBJECT	LECTURER
	1	Retinal Detachment	D. BAŞAR
	2	Pediatric Ophthalmology and Strabismus	S.ZIYLAN
	3	Neuro – Ophthalmology	E. GÖRGÜN
	4	Trauma and Emergency in Ophthalmology	C.A.UTİNE

YEDITEPE UNIVERSITY FACULTY OF MEDICINE
OTORHINOLARYNGOLOGY & HEAD AND NECK SURGERY

Objectives and Underlying Philosophy

The integrated Yeditepe Otolaryngology & Head and Neck Surgery Student Training Program is designed to produce medical doctors who are also well trained and productive investigators receive broad, closely supervised training and experience in diagnosis and treatment of diseases and abnormalities of the ear, nose, throat, sinuses, larynx, esophagus, and trachea. The inclusion of basic science courses and training in the clinical program, combined with the recognized excellence of the school and faculty, provide a superior milieu for the development of teacher-investigators.

Responsibility increases gradually until competence is achieved in the medical and surgical treatment of disorders of the head and neck, including ablative and reconstructive surgery for cancer, maxillo-facial trauma, plastic and reconstructive surgery, microsurgery of the ear, salivary gland surgery, phonosurgery, and broncho-esophagology. The program integrates training in one of three lecture rooms of the ethic commission secretary near main hospital building and lecture room of the Bagdat Outpatient Clinic.

Program Overview

The integration of Yeditepe along with two affiliate medical centers provides quantity as well as high quality clinical material. Students receive their basic science, research and primary didactic training at the Yeditepe Medical Centers and serve three-week training at these institutions. This approach provides students with balanced experience in the management of general otolaryngology, laryngology, pediatric otolaryngology, as well as otologic, rhinologic, and head and neck tumor surgery.

An outstanding feature of the integrated program is the basic science instruction that is provided by faculty members from our department and several other departments within the Yeditepe University. The basic science and didactic courses and lectures are open to individuals from all training programs in the area, as well as from the Oral Maxillofacial Surgery Department at the Yeditepe Dental School.

In addition to the basic science courses, classic and current surgical techniques may be incorporated in didactic and practicum courses in surgical head and neck anatomy and in temporal bone dissection. Courses may include a comprehensive survey of all structures of the head, neck and thorax as they pertain to the specialty, as well as temporal bone and advanced temporal bone dissections.

Program Outline

First Week (W-1)
The training is specifically selected to benefit future head and neck training. In the Yeditepe program, first-week students are training mainly in basic surgical techniques and in the management of pre- and post operative surgical patients. Students attend various departmental and division conferences on a regular basis. A mentor from the Division of Head and Neck Surgery is assigned to each student to monitor progress through the program and to assist the student should any problems arise.

Second and Third Weeks (W-2 and W-3)
These two weeks are devoted to the acquisition of a good foundation in the basic principles of otolaryngology. Students develop the ability to use the examining and surgical tools of the field under close supervision of the faculty. After achieving a basic knowledge of the procedures, they make daily inpatient staff rounds, assist in minor procedures under supervision. As part of the initial training experience, students are exposed to surgical pathology and radiology in order to gain proficiency in these fields.

Students' outpatient responsibilities include history-taking, most minor treatments, simple hearing testing under the auspices of an audiologist, training in clinical neuro-otological and vestibular examination procedures, and training in diagnostic and treatment procedures for voice and speech disorders. During this period, students are encouraged to develop relationships with faculty and observe various research laboratories, audio-vestibular and speech therapy units. This exposure introduces students to the various investigators and research being conducted in the division laboratories and allows them to begin to select the laboratory and investigator that best fits their areas of interest during their future.

Student Teaching Responsibilities

Each student plays an active role in medical student teaching. Training in otolaryngology at the Yeditepe University is included in all three weeks of the medical school curriculum. Members of the division lecture first-week medical students mainly in basic anatomy and physiology related to the organs and structures of the otorhinolaryngology & head and neck. In the second week of training, the division teaches introduction mainly to clinical medicine. Time is utilized to master the ENT physical examination. Second and third-week medical students are assigned to the Otolaryngology & Head and Neck Surgery Service.

During this training, the faculty also provides 56 lectures (45 minutes per lecture, 15 minutes break between two lectures and a series of four lectures given per day) in one of three lecture rooms of the ethic commission secretary near main hospital building and lecture room of the Bagdat Outpatient Clinic.

The medical school training program thus provides opportunities for training and teaching medical students in the field of otolaryngology. It is the purpose of the program to stimulate interest among medical students in the broad field of otolaryngology, and to prepare residents for academic and research careers in this specialty. As a corollary, this type of program enhances the training of pediatric, family practice, general surgery, and other specialty residents, nurses and ancillary paramedical personnel, while upgrading the level of practice of otolaryngology in the community, in the area, and in the country.

Under this system, students assume significant responsibility for teaching themselves. This experience may serve the teacher to even better advantage than it does the pupil, and effectively cultivates the habit of teaching. The faculty serve as preceptors, advisors and counselors to all students are always available. It is, however, incumbent upon all residents to take a special interest in the students by encouraging and teaching them whenever possible. This, after all, is the primary reason for the existence of the medical school.

PHASE V STUDENT TRAINING PROGRAM CURRICULUM

SEQUENCE OF COURSES

Course Code	Course Name	Credit Hours
ORL 539	History of the Otorhinolaryngology	1
ORL 540	Being a Good Doctor & Otolaryngologist	1
ORL 602	Evolutionary Otorhinolaryngology	1
ORL 541	Conventional, Endoscopic and Advanced Examination Techniques	1
CSP 606	Clinical and Surgical Practices 1	1
ORL 542	Basic Neurology for ORL and Disease & Treatment of the Facial Nerve	1
ORL 549	Basic Microbiology, Virology and Pharmacology for ORL	1
OTO 514	Middle and Inner Ear Anatomy, Embryology and Physiology	1
OTO 515	3D Temporal Bone & Ear Anatomy	1
CSP 607	Clinical and Surgical Practices 2	1
OTO 510	Diseases and Therapy of the External Ear	1
OTO 511	Diseases and Therapy of the Middle Ear	1
OTO 512	Diseases and Therapy of the Inner Ear and Acquired Auditory-Vestibular Disorders	1
OTO 513	Implantable Temporal Stimulators, Middle Ear, Cochlear & Brainstem Implants	1
CSP 608	Clinical and Surgical Practices 3	1
RHD 527	Anatomy, Embryology and Physiology of the Nose and Paranasal Sinuses	1
RHD 532	Anatomy, Physiology of the Olfaction & Tasting System and Their Diseases	1
ORL 550	Allergy and Otoimmune Disorders in Otorhinolaryngology	1
RHD 529	Epistaxis	1
CSP 609	Clinical and Surgical Practices 4	1
AUD 516	Acoustics,Psychoacoustics, Phonetics and Speech Perception	1
AUD 518	Essentials of Audiology	1
AUD 519	Pediatric Audiology and Early Hearing Detection & Intervention	1
AUD 521	Hearing Loss, Auditory Processing Disorders and Indications of Hearing Aids	1
AVP 610	Audio-Vestibular Practices 5	1
RHD 528	Rhinitis and Sinusitis	1
RHD 530	Nasal and Paranasal Sinus Tumors	1

ORL 552	Diseases and Therapy of the Nasopharynx and Skullbase	1
RHD 531	Nasal and Paranasal Surgery	1
CSP 611	Clinical and Surgical Practices 6	1
ORL 548	Diseases of the TM Joint & Maxillo-Facial Trauma and Orthognathic Surgery	1
ORL 603	Facial Cosmetic Surgery and Anaplastology	1
ORL 559	2D & 3D Anatomy of the Head and Neck	1
ORL 553	Stomatology & Intraoral Lesions Except Neoplasms	1
CSP 612	Clinical and Surgical Practices 7	1
ORL 544	Oral Cavity, Lip and Hypopharyngeal Neoplasms and Their Treatments	1
ORL 555	Diseases of the Tonsils & Adenoid and Their Treatments	1
ORL 604	Velopalatine Insuffiency, Cleft Lip and Palate	1
ORL 545	Salivary Gland Diseases & Neoplasms and Their Treatments	1
CSP 613	Clinical and Surgical Practices 8	1
LG 534	Anatomy, Embryology and Physiology of the Larynx	1
LG 535	Laryngitis & Laryngeal Reflux and Swallowing Disorders	1
LG 536	Laryngeal Neoplasms and Laryngeal Oncological Surgery	1
LG 533	Tracheostomy	1
CSP 614	Clinical and Surgical Practices 9	1
AUD 517	Tinnitus & Hyperacousis: Evaluation and Treatment	1
AUD 520	Audiological Rehabilitation for Children and Adults	1
AUD 523	Environmental Hearing Conservation and Facilitating Hearing Technologies	1
AUD 522	Vertigo and Vestibular Assessment	1
AVP 615	Audio-Vestibular Practices 10	1
LG 537	Diseases of the Laryngotracheal Skeleton and Voice Surgery	1
ORL 538	Radiologic & Nuclear Imaging in Otorhinolaryngology	1
ORL 543	Sleep Apnea & Snoring and Their Treatments	1
ORL 546	Neck Diseases, Neoplasms, & Infections and Differential Diagnosis of the Neck Masses	1
CSP 616	Clinical and Surgical Practices 11	1
ORL 600	Endocrin Surgery : Diseases of the Thyroid and Parathyroid	1
ORL 547	Lymph Nodes Pathologies and Neck Dissections	1

SEQUENCE OF COURSES

Course Code	Course Name	Credit Hours
ORL 557	Oncological Behaviour, Spreading and Pathological Spectrum of the ORL Neoplasms	1
ORL 558	Auxiliary Therapies and Rehabilitation of the Head and Neck Neoplasms	1
CSP 617	Clinical and Surgical Practices 12	1
ORL 554	Congenital Diseases, Genetic Conditions, Signs and Syndromes in ORL	1
ORL 605	LASER, Ultrasonic Aspiration, RF and Plasma Energy Applications in ORL	1
ORL 551	Gene Therapy, Stem Cell Applications, Cybernetics and Robotic Systems in ORL	1
ORL 556	Urgencies in Otorhinolaryngology	1
CSP 618	Clinical and Surgical Practices 13	1
ORL 601	Geriatric Diseases of the Otorhinolaryngology	1
SLD 525	Introduction to the Vocology and Voice Examination Techniques & Analysis	1
SLD 524	Speech and Language Disorders in Children and Adults	1
SLD 526	Voice Disorders and Voice & Speech Therapy	1
STP 619	Speech Therapy Practices 14	1
		70

Lecture	**56**
Clinical and Surgical Practices	**11**
Audio-Vestibular Practices	**2**
Speech Therapy Practices	**1**

ACADEMIC FACULTY

OTORHINOLARYNGOLOGY & HEAD AND NECK SURGERY

INSTRUCTOR	COURSES	In lecture room of the ethic commission secretary	In lecture room of the Bagdat Outpatient Clinic
Cem Devge, MD, Prof.	13	13	-
Yavuz Selim Pata, MD, Assoc. Prof.	15	15	-
Müzeyyen Doğan, Assist. Prof.	17	17	-
Ayşenur Küçük Ceyhan, Audiologist	8	-	8

Elçin Tadıhan, Speech Pathologist	3	-	3

PHASE V STUDENT TRAINING SCHEDULE

FIRST WEEK

	MONDAY	TUESDAY	WEDNESDAY	**THURSDAY**	**FRIDAY**
09:00-09:45	History of the Otorhinolaryngology	Basic Neurology for ORL and Disease & Treatment of the Facial Nerve	Diseases and Therapy of the External Ear	Anatomy, Embryology and Physiology of the Nose and Paranasal Sinuses	Acoustics,Psychoacoustics, Phonetics and Speech Perception
09:45-10:00	COFFEE BREAK				
10:00-10:45	Being a Good Doctor & Otolaryngologist	Basic Microbiology, Virology and Pharmacology for ORL	Diseases and Therapy of the Middle Ear	Anatomy, Physiology of the Olfaction & Tasting System and Their Diseases	Essentials of Audiology
10:45-11:00	COFFEE BREAK				
11:00-11:45	Evolutionary Otorhinolaryngology	Middle and Inner Ear Anatomy, Embryology and Physiology	Diseases and Therapy of the Inner Ear and Acquired Auditory-Vestibular Disorders	Allergy and Otoimmune Disorders in Otorhinolaryngology	Pediatric Audiology and Early Hearing Detection & Intervention
11:45-12:00					
12:00-12:45	LUNCH				
12:45-13:00					
13:00-13:45	Conventional, Endoscopic and Advanced Examination Techniques	3D Temporal Bone & Ear Anatomy	Implantable Temporal Stimulators, Middle Ear, Cochlear & Brainstem Implants	Epistaxis	Hearing Loss, Auditory Processing Disorders and Indications of Hearing Aids
13:45-14:00	COFFEE BREAK				
14:00-15:30	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Audio-Vestibular Practices

PHASE V STUDENT TRAINING SCHEDULE

SECOND WEEK

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:45	Rhinitis and Sinusitis	Diseases of the TM Joint & Maxillo-Facial Trauma and Orthognathic Surgery	Oral Cavity, Lip and Hypopharyngeal Neoplasms and Their Treatments	Anatomy, Embryology and Physiology of the Larynx	Tinnitus & Hyperacousis: Evaluation and Treatment
09:45-10:00	COFFEE BREAK				
10:00-10:45	Nasal and Paranasal Sinus Tumors	Facial Cosmetic Surgery and Anaplastology	Diseases of the Tonsils & Adenoid and Their Treatments	Laryngitis & Laryngeal Reflux and Swallowing Disorders	Audiological Rehabilitation for Children and Adults
10:45-11:00	COFFEE BREAK				
11:00-11:45	Diseases and Therapy of the Nasopharynx and Skullbase	2D & 3D Anatomy of the Head and Neck	Velopalatine Insuffiency, Cleft Lip and Palate	Laryngeal Neoplasms and Laryngeal Oncological Surgery	Environmental Hearing Conservation and Facilitating Hearing Technologies
11:45-12:00					
12:00-12:45	LUNCH				
12:45-13:00					
13:00-13:45	Nasal and Paranasal Surgery	Stomatology & Intraoral Lesions Except Neoplasms	Salivary Gland Diseases & Neoplasms and Their Treatments	Tracheostomy	Vertigo and Vestibular Assessment
13:45-14:00	COFFEE BREAK				
14:00-16:00	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Audio-Vestibular Practices

PHASE V STUDENT TRAINING SCHEDULE

THIRD WEEK

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:45	Diseases of the Laryngotracheal Skeleton and Voice Surgery	Endocrin Surgery : Diseases of the Thyroid and Parathyroid	Congenital Diseases, Genetic Conditions, Signs and Syndromes in ORL	Geriatric Diseases of the Otorhinolaryngology	**CLOSING REMARKS & EXAMINATIONS** 10:00 – 13:00
09:45-10:00	COFFEE BREAK				
10:00-10:45	Radiologic & Nuclear Imaging in Otorhinolaryngology	Lymph Nodes Pathologies and Neck Dissections	LASER, Ultrasonic Aspiration, RF and Plasma Energy Applications in ORL	Introduction to the Vocology and Voice Examination Techniques & Analysis	
10:45-11:00	COFFEE BREAK				
11:00-11:45	Sleep Apnea & Snoring and Their Treatments	Oncological Behaviour, Spreading and Pathological Spectrum of the ORL Neoplasms	Gene Therapy, Stem Cell Applications, Cybernetics and Robotic Systems in ORL	Speech and Language Disorders in Children and Adults	
11:45-12:00					
12:00-12:45	LUNCH				
12:45-13:00					
13:00-13:45	Neck Diseases, Neoplasms, & Infections and Differential Diagnosis of the Neck Masses	Auxiliary Therapies and Rehabilitation of the Head and Neck Neoplasms	Urgencies in Otorhinolaryngology	Voice Disorders and Voice & Speech Therapy	
13:45-14:00	COFFEE BREAK				
14:00-16:00	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Clinical and Surgical Practices GROUP I / Clinical and Surgical Practices GROUP II	Speech Therapy Practices	

The program integrates training in one of three lecture rooms of the ethic commission secretary near Main Hospital Building on every Monday, Tuesday, Wednesday and Thursday of the first and second week, and lecture room of the Bagdat Outpatient Clinic on Thursday of the third week and Friday of the first and second week. Clinical and surgical practices will also be in outpatient clinics and operative theatre in Hospital on every Monday, Tuesday, Wednesday and Thursday of the first and second week. Audio-vestibular and speech therapy practices will be Audio-Vestibular Laboratories in the Bagdat Outpatient Clinic on Thursday of the third week and Friday of the first and second week.

Bi-lingual examination, will be held in main hospital building on the **last Friday** of the training schedule. Exam questions comprises mainly **essay questions** and **short answer questions**. Multiple choice, true/false, matching and computational type of questions are occasionally comprised by the examination. Exam duration is approximately **2 hours**.

LEARNING OBJECTIVES OF SAMPLE LECTURES

ORL 539 History of the Otorhinolaryngology

ORL 540 Being a Good Doctor & Otolaryngologist

Discussion of the attributes of a profession, intra- and inter-professional relations, and referral methods. Also included will be discussion of the organization and function of professional associations, activities that serve the professional community and service to the public.

ORL 602 Evolutionary Otorhinolaryngology
ORL 541 Conventional, Endoscopic and Advanced Examination Techniques
CSP 606 Clinical and Surgical Practices 1

ORL 542 Basic Neurology for ORL and Disease & Treatment of the Facial Nerve

A study of the development, structure, and function of the central and peripheral nervous systems, including the autonomic nervous system. Blood supply, sensory and motor systems, pain mechanisms, receptors, reflex pathways, and consequences of lesions of the nervous system at various levels are also discussed. Includes laboratory requirement.

ORL 549 Basic Microbiology, Virology and Pharmacology for ORL

The effects of prescription and non-prescription drugs, environmental chemicals, and noise on the organ system of the head and neck. Focus is on basic pharmacology and the interaction of drugs and noise. The classes of medications used in routine clinical medical practice will be examined with emphasis on activity, mode of action, side effects, toxicity, and drug interactions.

OTO 514 Middle and Inner Ear Anatomy, Embryology and Physiology

Study of the structure, embryology and function of the Middle and Inner Ear, and Auditory-Vestibular System.

OTO 515 3D Temporal Bone & Ear Anatomy
CSP 607 Clinical and Surgical Practices 2
OTO 510 Diseases and Therapy of the External Ear
OTO 511 Diseases and Therapy of the Middle Ear

OTO 512 Diseases and Therapy of the Inner Ear and Acquired Auditory-Vestibular Disorders

Study of the acquired disorders affecting the auditory and vestibular system, both peripheral and central. Topics will include disorders of the conductive, sensory, neural, and central auditory and vestibular systems; their etiologies; and presentation of symptoms. Related examination fi ndings and treatment options will be discussed.

OTO 513 Implantable Temporal Stimulators, Middle Ear, Cochlear & Brainstem Implants
CSP 608 Clinical and Surgical Practices 3
RHD 527 Anatomy, Embryology and Physiology of the Nose and Paranasal Sinuses
RHD 532 Anatomy, Physiology of the Olfaction & Tasting System and Their Diseases
ORL 550 Allergy and Otoimmune Disorders in Otorhinolaryngology
RHD 529 Epistaxis
CSP 609 Clinical and Surgical Practices 4

AUD 516 Acoustics,Psychoacoustics, Phonetics and Speech Perception

Acoustics is the interdisciplinary science that deals with the study of sound, ultrasound and infrasound (all mechanical waves in gases, liquids, and solids). Hearing is not a purely mechanical phenomenon of wave propagation, but is also a sensory and perceptual event. When a person hears something, that something arrives at the ear as a mechanical sound wave traveling through the air, but within the ear it is transformed into neural action potentials. These nerve pulses then travel to the brain where they are perceived. Hence, in many problems in acoustics, such as for audio processing, it is advantageous to take into account not just the mechanics of the environment, but also the fact that both the ear and the brain are involved in a person's listening experience. The study of the acoustics of speech and a survey of models of speech perception and processing of speech. Includes laboratory requirement. Phonetics will be mentioned as three main branches. One of them is articulatory phonetics is concerned with the articulation of speech: The position, shape, and movement of *articulators* or speech organs, such as the lips, tongue, and vocal folds. Acoustic phonetics is concerned with acoustics of speech: The properties of the sound waves, such as their frequency and harmonics. Auditory phonetics is also concerned with speech perception: How speech sounds are categorized, recognized, and interpreted by the auditory apparatus and the brain.

AUD 518 Essentials of Audiology

A detailed study of acoustics, including properties of sound and sound measurement and analysis techniques. Psychometric methods and a study of the range of normal human perceptual abilities: intensity, frequency, and temporal resolution.

AUD 519 **Pediatric Audiology and Early Hearing Detection & Intervention**

Study of the normal and abnormal development of auditory behavior in infants and children. Review of normal motor,cognitive, language, and psychosocial development. Will cover universal newborn hearing screening, identifi cation audiometry, diagnostic audiometry, hearing aids, and counseling. Practical applications for the difficult-to-test child will be covered. Includes laboratory requirement. The origin and classifi cation of otoacoustic emissions will be studied. Test equipment and procedures for obtaining otoacoustic emissions. Interpretation of results and uses of OAE data in screening and diff erential diagnosis of auditory disorders. Includes laboratory requirement. Detailed study into the principles and methods of evoked response testing. Techniques for performing EcochG and ABR. Interpreting results and the relation of data to neuroanatomy and physiology of the auditory system. Includes laboratory requirement.

AUD 521 **Hearing Loss, Auditory Processing Disorders and Indications of Hearing Aids**

This course sequence covering the assessment and management of auditory processing disorders. Topics in this sequence include diff erential diagnosis of auditory processingdisorders through the use of case history, questionnaires, speech audiometric tests, non-speech tests and electrophysiologic measurements, and appropriate counseling and remediation for patients and their families. Includes laboratory requirement.

AVP 610 **Audio-Vestibular Practices 5**

First of a two-practice course sequence covering otoscopic evaluation, pure tone air- and bone-conduction testing, and speech thresholds. Tuning fork tests, instrument calibration and analysis of sensitivity/specifi city functions will be covered. Includes laboratory requirement.

RHD 528	Rhinitis and Sinusitis
RHD 530	Nasal and Paranasal Sinus Tumors
ORL 552	Diseases and Therapy of the Nasopharynx and Skullbase
RHD 531	Nasal and Paranasal Surgery
CSP 611	Clinical and Surgical Practices 6

ORL 548 **Diseases of the TM Joint & Maxillo-Facial Trauma and Orthognathic Surgery**

Orthognathic surgery is surgery to correct conditions of the jaw and face related to structure, growth, sleep apnea, TMJ disorders or to correct orthodontic problems that cannot be easily treated with braces. Bones can be cut and re-aligned, held in place with either screws or plates and screws.

ORL 603	Facial Cosmetic Surgery and Anaplastology
ORL 559	2D & 3D Anatomy of the Head and Neck
ORL 553	Stomatology & Intraoral Lesions Except Neoplasms
CSP 612	Clinical and Surgical Practices 7
ORL 544	Oral Cavity, Lip and Hypopharyngeal Neoplasms and Their Treatments
ORL 555	Diseases of the Tonsils & Adenoid and Their Treatments
ORL 604	Velopalatine Insuffiency, Cleft Lip and Palate
ORL 545	Salivary Gland Diseases & Neoplasms and Their Treatments
CSP 613	Clinical and Surgical Practices 8
LG 534	Anatomy, Embryology and Physiology of the Larynx
LG 535	Laryngitis & Laryngeal Reflux and Swallowing Disorders
LG 536	Laryngeal Neoplasms and Laryngeal Oncological Surgery
LG 533	Tracheostomy
CSP 614	Clinical and Surgical Practices 9

AUD 517 **Tinnitus & Hyperacousis: Evaluation and Treatment**

An in-depth and critical review of the current and past research on the origins of tinnitus. Assessment techniques and the various treatment options available for remediation are compared and contrasted in detail. Includes laboratory requirement.

AUD 520 **Audiological Rehabilitation for Children and Adults**

Selection, fitting, and adjustments of hearing aids. Understanding amplitude compression, characteristics, frequency compression technology, digital and programmable hearing aids, and specialized microphone configurations. Focus is on new cutting edge technology. Content to change as needed. Includes laboratory requirement.

AUD 523 **Environmental Hearing Conservation and Facilitating Hearing Technologies**

The measurement of, effects of, and management of occupationally related hearing loss, recreational noise exposure and its sequela. Industrial and forensic audiology will be discussed in detail. OSHA, MSHA, and NIOSH regulations will be covered. Includes laboratory requirement.

AUD 522 **Vertigo and Vestibular Assessment**

Assessing disorders of the vestibular system and the underlying anatomical and physiological bases. Focusing on differential diagnosis of the pathologies using ENG, VNG, VAT, posturography, sensory organization testing, rotational chair testing, vestibular evoked myogenic potentials and other techniques. Includes laboratory requirement. This course sequence covering assessment and also treatment of vestibular disorders. It will provide a continuation of vestibular assessment procedures followed by coverage of recommendations and treatment procedures for patients with balance disorders. Topics include medical referrals, medical treatment, surgery, canalith repositioning; vestibular rehabilitation and balance re-training (adaptation, substitution, and combined therapeutic strategies). Includes laboratory requirement.

AVP 615 **Audio-Vestibular Practices 10**

This is the second in a two-practice course sequence. Includes detailed study of conventional audiometric techniques, focusing on speech audiometry, masking, diffi cult-to-test populations and immittance measures. Includes laboratory requirement.

LG 537 Diseases of the Laryngotracheal Skeleton and Voice Surgery

ORL 538 **Radiologic & Nuclear Imaging in Otorhinolaryngology**

Understanding imaging techniques for evaluation of auditory and vestibular pathologies and the correlation with audiological data, including conventional X-Rays, CT scans, MRI, fMRI, and PET.

ORL 543 Sleep Apnea & Snoring and Their Treatments
ORL 546 Neck Diseases, Neoplasms, & Infections and Differential Diagnosis of the Neck Masses
CSP 616 Clinical and Surgical Practices 11
ORL 600 Endocrin Surgery : Diseases of the Thyroid and Parathyroid
ORL 547 Lymph Nodes Pathologies and Neck Dissections
ORL 557 Oncological Behaviour, Spreading and Pathological Spectrum of the ORL Neoplasms
ORL 558 Auxiliary Therapies and Rehabilitation of the Head and Neck Neoplasms
CSP 617 Clinical and Surgical Practices 12

ORL 554 **Congenital Diseases, Genetic Conditions, Signs and Syndromes in ORL**

This course covers embryologic development with emphasis on normal and abnormal or interrupted development. Genetic concepts and terminology will be covered together with information regarding the association of certain head and neck organ systems with audiovestibular system impairments. Material will also include information regarding genetic testing, genetic counseling, and the audiologist's role and responsibilities in identifying and managing these conditions.

ORL 605 LASER, Ultrasonic Aspiration, RF and Plasma Energy Applications in ORL
ORL 551 Gene Therapy, Stem Cell Applications, Cybernetics and Robotic Systems in ORL
ORL 556 Urgencies in Otorhinolaryngology
CSP 618 Clinical and Surgical Practices 13

ORL 601 **Geriatric Diseases of the Otorhinolaryngology**

A study of the normal and pathological changes associated with aging, covering anatomical, physiological, and psychosocial factors.

SLD 525 **Introduction to the Vocology and Voice Examination Techniques & Analysis**

Vocology is the science of enabling or endowing the human voice with greater ability or fitness. Its concerns include the nature of speech and language pathology, the defects of the vocal tract (laryngology), the remediation of speech therapy and the voice training and voice pedagogy of song and speech for actors and public speakers.

SLD 524 **Speech and Language Disorders in Children and Adults**

This course is designed to cover the theory and techniques for the diagnosis and treatment of speech and language disorders in children from preschool through school-age and adults. Students will learn to administer and interpret common diagnostic tests. Students will learn to develop remediation plans and implement the remediation lessons. Topics to be included are : traumatic brain injuries, aphasias, dysarthria, apraxia, dysphagia, voice disorders, and other neurological disorders such as Parkinson's.

SLD 526 **Voice Disorders and Voice & Speech Therapy**

Voice disorders are medical conditions affecting the production of speech. These include: Chorditis, vocal fold nodules, vocal fold cysts, vocal cord paresis, Reinke's Edema, spasmodic dysphonia, foreign accent syndrome, Bogart-Bacall Syndrome, laryngeal papillomatosis, puberphonia.

STP 619 Speech Therapy Practices 14

YEDITEPE UNIVERSITY FACULTY OF MEDICINE & TC MINISTRY OF HEALTH MEDENIYET UNIVERSITY GOZTEPE RESEARCH AND TRAINING HOSPITAL PEDIATRIC SURGERY DEPARTMENTS
PEDIATRIC SURGERY (2 WEEKS)

Hamit Okur, MD Prof. (CC)
Selami Sözübir, MD Prof. (CC)
Çiğdem Ulukaya-Durakbaşa, MD Assoc. Prof.
Murat Mutuş, MD
Meltem Çağlar, MD
Mevlit Korkmaz, MD
Şafak Karaçay MD
Aytekin Kaymakçı MD

- **Definition**

Pediatric Surgery is the field of medicine that encompasses a broad range of diseases and malformations, both operative and non-operative, from the fetal period until the end of childhood (0-18 years). In addition to the body systems covered by general surgery, Pediatric Surgery also deals with non-cardiac thoracic conditions and specific genito-urinary and gynecological problems in children.

- **Aims**

- 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.
- To familiarize oneself with the pathophysiology of pediatric surgical conditions, and the response of a child to surgery and trauma.

- **Educational Goals**

The 5th year program in Pediatric Surgery is intended to build on students' knowledge of surgical principles and the practice of General Surgery and Pediatrics acquired in years 1-4, and to introduce the student to the surgical treatment of diseases of the following parts of the childrens body: the head and neck, digestive tract, the skin, the soft tissues, the genitourinary tract and the respiratory tract .

Students are expected to continue to demonstrate their mastery of learning objectives in the domains of Learning Skills, Clinical Skills, Practical Skills and Principles of Surgery.

- **Educational Objectives**

<u>Clinical Skills</u>

Given a patient with a pediatric general surgical disease, the student will be able to do the following to the satisfaction of his/her supervisor(s):

- Take a relevant history.
- Perform an acceptable physical exam concentrating on the relevant areas.
- Arrive at an appropriate differential diagnosis.

Cognitive Knowledge

The student will be expected to demonstrate a fundamental knowledge and understanding of the following general areas and disease processes. The student's knowledge base must be adequate to permit appropriate assessment, investigation, diagnosis, and treatment.

- Common pediatric surgical and urological problems in the emergency department
- The "Acute Abdomen" in children (acute appendicitis, acute gastroenteritis, bowel obstruction, intussusception, malrotation and volvulus etc.)
- Hernias and common surgical problems of inguinal region
- Rectal bleeding in children (fissure-in-ano, juvenile polyp, Meckel's diverticulum, medical conditions that may cause rectal bleeding)
- Common anorectal problems
- The constipated child
- Non-bilious and bilious vomiting in children (pyloric stenosis, gastroesophageal reflux and intestinal obstructions)
- The abdominal mass and solid tumors in childhood (Wilms tumor, neuroblastoma, etc.)
- Common neonatal surgical conditions (neonatal intestinal obstruction, & gastroschisis, necrotizing enterocolitis, imperforate anus, abdominal masses)
- Trauma (general approach to the multiply injured child)
- Prenatal diagnosed disease related to pediatric general and urological conditions
- Common pediatric urological conditions
- Surgical aspects in urinary tract infections in childhood
- Surgical fluid and electrolyte hemostasis
- Congenital anomalies of genito-urinary tract

- **Format**

  Students complete 2-week rotation.

Activity	**Numbers**
Lectures	23
Practice	30
Student Seminars	2
Interactive Case Studies	6
Total	62

PEDIATRIC SURGERY

PHASE V PROGRAMME

1st Week	
Monday	
08.00-10.00	Grand Round and Practice
10.15-11.00	Lecture (Child and Surgery) Selami Sözübir
11.15-12.00	Lecture (Fluid and electrolyte balance in pediatric surgery) Çiğdem Ulukaya Durakbaşa
13.15-14.00	Lecture (Head and Neck Masses in childhood) Meltem Çağlar
14.15-15.00	Lecture (Thoracal and chest wall abnormalities) Mevlit Korkmaz
15.15-16.00	Practice and ward round-
Tuesday	
08.00-08.45	Ward round and practice
9.00-09.45	Lecture (Congenital Diaphragmatic hernia and evantration) Meltem Çağlar
10.00-10.15	Lecture (Acute appendicitis and differential diagnosis) Aytekin Kaymakcı
11.15-12.00	Interactive Case Studies (Newborn with Bilious Vomitting) Çiğdem Ulukaya Durakbaşa
13.15-14.00	Lecture (The Newborn as a Surgical Patient) Şafak Karaçay
14.15-15.00	Interactive Case Studies (Surgical Respiratory Distress in Children) Şafak Karaçay
15.15-16.00	Practice and ward round
Wednesday	
08.00-08.45	Practice and ward round
09.00-12.00	Practice Group A – Outpatients clinic / Group B – Operation Room-
13.15-14.00	Interactive Case Studies (child with urinary obstruction) Hamit Okur
14.15-15.00	Lecture (Hirschprung Disease and Constipation) Hamit Okur
15.15-16.00	Practice (Circumcision) Aytekin Kaymakcı
Thursday	
08.000-08.45	Practice and ward round
9.00-10.00	Practice (Acute abdomen in children) Mevlit Korkmaz
10.15-11.00	Lecture (Inguinal and Scrotal Pathologies in Childhood I) Hamit Okur
	Lecture (Inguinal and Scrotal Pathologies in Childhood II) Hamit Okur
11.15-12.00	Lecture (Anorectal Malformations) Hamit Okur
13.15-14.00	Lecture (Abdominal Wall Defects and Umbilical Pathologies) Selami Sözübir
14.15-15.00	Lecture (GI bleeding in Childhood) Selami Sözübir
15.15-16.00	Interactive Case Studies (child with inguinal mass) Selami Sözübir

Friday

08.00-08.45	Ward round and Practice
9.00-10.00	Lecture (Trauma in Children) Aytekin Kaymakcı
10.15-11.00	Practice (Pediatric trauma) Çiğdem Ulukaya Durakbaşa
11.15-12.00	Lecture (Nonbilious vomiting in children) Çiğdem Ulukaya Durakbaşa

13.15-14.00	Lecture (GI atresias and Meconium Ileus) Çiğdem Ulukaya Durakbaşa
14.15-15.00	Interactive case studies (Child with abdominal mass) Murat Mutuş
15.15-16.00	Practice and ward round-

2nd Week

Monday

08.00-08.45	Ward round and Practice
9.00-10.00	Lecture (Solid tumors in childhood) Mevlit Korkmaz
10.15-11.00	Practice (Constipation and encopresis) Meltem Çağlar
11.15-12.00	Lecture (Voiding dysfunction and urinary incontinence) Murat Mutuş

13.15-14.00	Lecture (Biliary atresia and Obstructive Jaundice) Murat Mutuş
14.15-15.00	Lecture (Esophageal Atresia) Murat Mutuş
15.15-16.00	Practice and ward round

Tuesday

08.00-08.45	Prcatice and ward round-
09.00-12.00	Practice-Group B – Oupatients clinic-
	/ Group A – Operation Room –

13.15-14.00	Lecture (Obstructive Urological Pathologies) Selami Sözübir
14.15-15.00	Lecture (Non Obstructive Urological Pathologies and Hypospadias) Selami Sözübir
15.15-16.00	Lecture (Prenatal Diagnosis in Pediatric Surgery and Urology) Şafak Karaçay

Wednesday

08.00-08.45	Ward round and Practice
9.00-10.00	Grand Round and Practice Selami Sözübir
10.15-11.00	Seminars of students (Group I) Aytekin Kaymakcı
11.15-12.00	Seminars of students (Group II) Mevlit Korkmaz
13.15-15.00	Practice -Group A – Outpatients clinic-
	/ Group B – Operation Room-
15.15-16.00	Practice and ward round-

Thursday

08.00-0845	Ward round and Practice
09.00-10.00	Practice (Urinary incontinence and Urodynamic evaluation) Murat Mutuş
10.15-11.00	Interactive case studies – (Abdominal pain) Meltem Çağlar
11.15-12.00	Practice and ward round-
13.15-15.00	Practice Group B – Outpatients clinic-
	/ Group A – Operation Room-

Friday

9.00-10.00	Theoretical Examination
10.00- 11.00	Evaluation of results
11.00-13.00	Practical Examination

YEDİTEPE UNIVERSITY HOSPITAL & LÜTFİ KIRDAR KARTAL TRAİNİNG AND RESEARCH HOSPİTAL NEUROSURGERY (3 WEEKS)

Faculty:

Ugur Türe M.D. Professor of Neurosurgery, Yeditepe University Faculty of Medicine

Başar Atalay M.D. Associate Professor of Neurosurgery Yeditepe University Faculty of Medicine

Tufan Hiçdönmez M.D. Associate Professor of Neurosurgery Lütfi Kırdar Kartal Training and Research Hospital

Medical Student's Neurosurgery Curriculum

1. General introduction to neurosurgery: Ugur Türe M.D. Professor of Neurosurgery, Başar Atalay M.D. Associate Professor of Neurosurgery

Learning objectives

History of Neurosurgery

Clinical presentation, anatomical concepts and making the diagnosis in a neurosurgical patient.

You should:

1.2.1. Evaluate the surgical neuroanatomy of the brain and the Spinal cord

1.2.2. Evaluate the fundamentals of Neuro-Imaging

A. Recognize spine fractures and dislocations.
B. Differentiate on computerized images between blood, air, fat, CSF, and bone.
C. Recognize specific disease entities listed below such as epidural, subdural, intracranial hematoma, subarachnoid hemorrhage, brain tumors, and hydrocephalus.

1.2.3. Evaluate patient's mental status and speech, Examine the cranial nerves,Examine central and peripheral sensory function, Examine motor function, Examine cranial and peripheral reflexes, Examine cerebellar function and gait.

1.2.4. Evaluate Intracranial hypertension

D. Understand the pathophysiology of elevated intracranial pressure, cerebral perfusion and the influence of blood pressure, blood gases, and fluid and electrolyte balance.
E. Recognize the clinical manifestations of acute brain herniation including the Cushing reflex, midbrain effects and vital signs.
F. Understand the impact of focal mass lesions, structural shifts and their consequences.

2. Intracranial Disease Topics: Ugur Türe M.D. Professor of Neurosurgery

Learning objectives:

2.1. Diagnosis and Management of Head Trauma

You should:

2.1.1. Understand and assign the Glasgow Coma Score.
2.1.2. Recognize the presentation of brain herniation syndromes in the setting of trauma.
2.1.3. Initiate management of elevated intracranial pressure in head trauma.
2.1.4. Recognize and initiate management of concussion, brain contusion and diffuse axonal injury.
2.1.5. Recognize and initiate management of acute subdural and epidural hematoma, including surgical indications.

2.1.6. Recognize and initiate management of penetrating trauma including gunshot wounds.
2.1.7. Recognize and understand the principles of management of open, closed and basilar skull fractures, including cerebrospinal fluid leak, and chronic subdural hematoma (in children and adults).

Learning objectives:

2.2. Diagnosis and Management of Brain Tumor

You should:

2.2.1. Know the relative incidence and location of the major types of primary and secondary brain tumors.
2.2.2. Understand the general clinical manifestations (focal deficit and irritations, mass effect; supratentorial vs. infratentorial) of brain tumors.
2.2.3. Recognize specific syndromes: extra-axial (cerebellopontine, pituitary, frontal….) and intra-axial, in brain tumor presentation.
2.2.4. Review the diagnostic tools that are currently used for evaluation (laboratory tests, radiology, biopsy).
2.2.5. Understand broad treatment strategies (surgery, radiosurgery, radiation, and chemotherapy) in the treatment of tumors.

Learning objectives

2.3. Diagnosis and Management of Cerebrovascular Disease

You should:

2.3.1. Recognize the symptoms and signs of anterior and posterior circulation ischemia emphasizing carotid disease and contrasting it with hemorrhagic stroke.
2.3.2. Differentiate among the types of ischemic stroke: embolic, hemodynamic, lacunar.
2.3.3. Categorize etiologic factors of brain ischemia including atherosclerosis, cardiac disease, arterial dissection, fibromuscular dysplasia, vascolitis, venous thrombosis and hematologic disease.
2.3.4. Understand the treatment options in ischemic disease and their indications, including medical management, risk factor modification and surgical therapy.
2.3.5. Diagnose and monitor carotid occlusive disease using noninvasive methods and understand indications for angiography and carotid endarterectomy.
2.3.6. Know the major causes of intracranial hemorrhage: vascolopathy in the aged (hypertension and amyloidosis), aneurysm, vascular malformation, tumor and coagolopathy.
2.3.7. Recognize the symptoms and signs of subarachnoid, cerebral and cerebellar hemorrhage.
2.3.8. Apply diagnostic tools in evaluation of acute headache (CT and MRI, role of lumbar puncture).
2.3.9. Understand the natural history and broad treatment strategies (surgery, radiosurgery, interventional radiology as well as treatment of vasospasm) of intracranial aneurysms and vascular malformations.

3. Spinal disease: Başar Atalay M.D. Associate Professor of Neurosurgery

Learning objectives

3.1. Diagnosis and Management of Spinal Trauma and Spinal Cord Injury

You should:

3.1.1. The emergency room diagnosis and interpretation of radiologic studies in spinal trauma.
3.1.2. Initiate acute management of spinal cord injury including immobilization, steroids and systemic measures.
3.1.3. Understand the definition and subsequent management principles of the unstable spine.
3.1.4. Understand management principles in spinal cord injury including indications for decompressive surgery and treatment of the medical complications associated with cord injury (skin, bladder, bowel movement, respiratory).

Learning objectives:

3.2. Diagnosis and Management of Nontraumatic Neck and Back Problems and Degenerative Spinal diseases

You should:

3.2.1. Diagnose and understand the natural history and management principles of whiplash and soft tissue injury.
3.2.2. Recognize the broad categories of spinal pain and radicolopathy:
3.2.3. The signs and symptoms (including cauda equina syndrome).
3.2.4. Their common causes, their diagnosis and their management (cervical and lumbar disc herniation, osteoarthritic disease, spondylolisthesis).
3.2.5. Their differential diagnosis and management (including metastatic disease and primary spinal tumors).
3.2.6. Recognize the broad categories of myelopathy:
3.2.7. The signs and symptoms (including comparison of acute and chronic spinal cord injury).
3.2.8. The common causes, their diagnosis and their management (cervical and lumbar disc herniation and osteoarthritic disease).
3.2.9. Differential diagnosis and management (including transverse myelopathy, metastatic disease and primary spinal tumors).

4. Peripheral nerve disease: Başar Atalay M.D. Associate Professor of Neurosurgery

Learning objectives:

4.1. Diagnosis and Management of Peripheral Nerve Injury and Entrapment

You should:

4.1.1. Diagnose traumatic nerve injury (laceration, stretch and compression) and understand indications and general strategies of treatment.
4.1.2. Recognize the signs and symptoms of common nerve entrapment (carpal tunnel syndrome, ulnar nerve entrapment, thoracic outlet syndrome and meralgia paresthetica), their etiology, conservative management strategies and indications for surgical intervention.

5. Pediatric neurosurgical problems: Tufan Hiçdönmez M.D. Associate Professor of Neurosurgery

Learning objectives:

4.2. Diagnosis and Management of Hydrocephalus and Spinal Dysraphism

You should:

4.2.1. Recognize the symptoms and signs of hydrocephalus in children and adults
4.2.2. Understand common etiologies of hydrocephalus in children and adults, and differentiate between communicating and obstructive hydrocephalus.
4.2.3. Understand treatment strategies for hydrocephalus.
4.2.4. Recognize common syndromes of spinal dysraphism, their neurologic manifestations and broad principles of management.
4.2.5. Recognise Craniosynostosis diagnosis and management

4.3. Other pediatric neurosurgical problems

6. Functional Neurosurgery: Tufan Hiçdönmez M.D. Associate Professor of Neurosurgery

Learning objectives:

a. Diagnosis and Management of Surgically Treatable Pain Problems, Movement Disorders and Epilepsy

You should:

i. Recognize the features of trigeminal and glossopharyngeal neuralgia, causalgia and cancer pain, indications for surgical referral and the spectrum of surgical therapeutic options.

ii. Recognize movement disorders amenable to surgical intervention, including Parkinson's disease, dystonia, spasticity, and hemifacial spasm, indications for surgical referral and the spectrum of surgical therapeutic options.
iii. Understand the general classification of seizure disorders, definition of intractable epilepsy, and the broad categories of surgical intervention for epilepsy including invasive electrodes, resective and disconnective surgery.

7. Common infections in neurosurgery: Başar Atalay M.D. Associate Professor of Neurosurgery

Learning objectives:

a. Diagnosis and Management of infections in neurosurgery

You should:

i. Learn diagnosis and managenet of meningitis, cerebritis and other similar infections
ii. Learn surgical antisepsis, disinfection and sterilization
iii. Recognize the clinical manifestations of abscess and focal infections due to local spread, hematogenous disease associated with immune deficiency, and how they differ from the mimic tumors.
iv. Understand the general principles in the treatment of abscess and focal intracranial infections.
v. Recognise the diagnosis and management of Spinal infections like Tuberculosis osteomyelitis, Brucella spondylodiscitis, postoperative discitis and wound infections
vi. Recognise the diagnosis and management of shunt infections and dysfunction

1st Week **Yeditepe University Hospital**

Monday

9.00-10.00	Grand Raund with the Staff
10.30-12.00	Lecture
13.30-15.30	Practice(Neurosurgical ward)
15.30-17.00	Practice(Outpatient clinic)

Tuesday

9.00-10.00	Grand Raund
10.00-13.00	Operating Room
13.30-15.30	Practice(Neurosurgical ward)
15.30-17.00	Practice(Outpatient clinic)

Wednesday

9.00-10.00	Grand Raund
10.30-12.00	Lecture
12.30-15.30	Hospital Conferences
15.30-17.30	Seminar

Thursday

9.00-10.00	Grand Raund
10.30-13.00	Operating Room
13.30-15.30	Practice(Neurosurgical ward)
15.30-17.00	Seminar

Friday

9.00-10.00	Student Seminar and Journal club
10.30-12.00	Lecture
13.30-15.00	Practice(Neurosurgical ward)
15.00-17.00	Lecture

Saturday

10.00-12.00	Neurosurgery,Pathology and Radiology joint meeting

2nd Week **Yeditepe University Hospital**

Monday

9.00-10.00	Grand Raund
10.30-12.00	Lecture
13.30-15.30	Practice(Neurosurgical ward)
15.30-17.00	Seminar

Tuesday

9.00-10.00	Grand Raund
10.00-13.00	Operating Room
13.30-15.30	Practice(Neurosurgical ward)
15.30-17.30	Seminar

Wednesday

9.00-10.00	Grand Raund
10.30-12.00	Lecture
12.30-15.30	Hospital Conferences
15.30-17.30	Seminar

Thursday

9.00-10.00	Grand Raund
10.30-13.00	Operating Room
13.30-15.30	Practice(Neurosurgical ward)
15.30-17.30	Seminar

Friday

9.00-10.00	Student Seminar and Journal club
10.30-12.00	Lecture
13.30-15.00	Practice(Neurosurgical ward)
15.00-16.00	Lecture

Saturday

10.00-12.00	Neurosurgery,Pathology and Radiology joint meeting

Saturday

8.00-12.00	**Neurosurgery Written and Oral Examination (Yeditepe University Departm Neurosurgery)**

3rd Week **Lütfi Kırdar Kartal Training and Research Hospital , 2. Neurosurgery Clinic**
Tufan Hiçdönmez, Assoc. Professor of Neurosurgery

Monday

8.30-9.00	Grand Raund
10.30-12.00	Lecture
14.00-15.30	Practice (Neurosurgical ward)

Tuesday

8.30-9.00	Grand Raund
10.30-12.00	Lecture
14.00-15.30	Practice(Neurosurgical ward)

Wednesday

8.30-9.00	Grand Raund
10.30-12.00	Lecture
14.00-15.30	Practice(Neurosurgical ward)

Thursday

8.30-9.00	Grand Raund
10.30-12.00	Lecture
14.00-15.30	Practice(Neurosurgical ward)

Friday

8.30-9.00	Grand Raund
10.30-12.00	Lecture
14.00-15.30	Practice(Neurosurgical ward)

YEDITEPE UNIVERSITY HOSPİTAL
ORTHOPAEDICS AND TRAUMATOLOGY (3 WEEKS)

Faik Altıntaş, M.D. Prof.
Tahsin Beyzadeoğlu, M.D. Assoc. Prof.
Melih Güven, M.D. Assoc. Prof.
Çağatay Uluçay M.D. Assist. Prof.
Turhan Özler, M.D., Asist. Prof.
Korcan Yüksel M.D.
Onur Kocadal M.D.
Ayberk Önal M.D.
Burak Çağrı Aksu M.D.

Learning objectives

. Able to approach to a major orthopaedic trauma patient
. Able to interpet the skeletal plain radiograms and joint MRI
. Learn how to do physical examination of the musculoskeletal system
. Able to perform simple casting and bandages for fractures and distorsions
. Know how to examine a new born child for PEV, congenital anomalies and developmental dysplasia of the hip
. Learn the differantial diagnosis of benign and malignant bone tumors
. Learn how to diagnose and treatment of common orthopedic diseases such as arthritis , sports injuries and low back pain
. Learn the causes of common orthopaedic diseases such as osteoarthritis and low back pain
. Able to interpret for congenital orthopedic anomalies
. Able to differentiate cerebral palsy from other cerebral and metabolic diseases
. Learn the joint kinematics and cartilage biology
. Able to interpret traumatic joint dislocations and outcomes
. Learn orthopedic infections and emergent protocols of treatment
. Learn how to act in operating room and scrubbing
. Able to interpret foot pain, flat foot, in toeing and foot and ankle problems
. Learn how to approach for an amputation and how to prepeare the amputate
. Learn how to approach microsurgery
. Learn the emergent approach and treatment of a spinal trauma w/wo neurological deficit
. Learn how to present a patient with orthopedic diseases
. Perform a presentation of a orthopedic issue

Orthopaedics and Traumatology Phase V

1. Week

	Monday	*Tuesday*	*Wednesday*	*Thrusday*	*Friday*
8:00-9:00	**Dr F. Altıntaş** Introduction to Orthopaedics and Traumatology	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Postop x-ray round
9:00-12:00	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics
12:00-13:00	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**
14:00-16:00	**Dr M. Güven** Pelvis and acetabular fractures Open fractures and wound treatment	**Dr T. Ozler** Dislocations and fractures of the lower extremity Fractures of children	**Dr F. Altıntaş** Basic principles of fractures and fracture healing Osteomyelitis and septic arthritis	**Dr T. Beyzadeoğlu** Benign and malign bone tumors	**Dr Ç. Uluçay** Spinal trauma and fractures Cast and bandaj applications(OSCE)
16:00-17:00	Examination of Hip	Examination of Knee	Examination of Upper Extremity	Pediatric Examination	Cast application

2. Week

8:00-9:00	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Postop x-ray round
9:00-12:00	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics
12:00-13:00	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**
14:00-16:00	**Dr. M. Güven** Developmental dysplasia of the hip Perthes disease Slipped capital femoral epiphysis	**Dr T. Ozler** Metabolic bone diseases Avascular bone necrosis and management in adults	**Dr F. Altıntaş** Cerebral Palsy Osteoarthritis and arthroplasty	**Dr T. Beyzadeoğlu** Shoulder and Elbow problems Knee problems in sports medicine and arthroscopy Cartilage biology and injuries	**Dr Ç. Uluçay** Scoliosis and Kyphosis Degenerative and inflammatory diseases of the spine
16:00-17:00	Gait evaluation	Wound Management	Management after sports injury	Examination of spine	Examination of cerebral palsy

3. Week

8:00-9:00	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	Student presentation Operation / Policlinics Preop-x ray round	
9:00-12:00	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics	Operation / Policlinics	**Written Examination**
12:00-13:00	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**	**LUNCH BREAK**
14:00-16:00	**Dr M. Güven** Congenital anomalies of the lower extremity PEV	**Dr T. Ozler** Disorders of the Foot and Ankle	**Dr Ç. Uluçay** Dislocations and fractures of the upper extremity	**Dr. T. Beyzadeoğlu** Microvascular surgery and replantations	**Oral Examination**
16:00-17:00	Evaluation of x-ray in pediatric orthopaedics	Evaluation of x-ray in tumors	The follow-up after microsurgery		

YEDITEPE UNIVERSITY FACULTY OF MEDICINE
&
İSTANBUL GÖZTEPE TRAINING AND RESEARCH HOSPITAL
NEUROLOGY (3 Weeks)

Approach to Neurological Patient I-II

Learning Objectives

You should be able to

- Symptoms and signs of neurological ill patient
- How to approach diagnosis
- Make differential diagnosis

Pyramidal, extrapyramidal, cerebellar systems

Learning Objectives

You should be able to

- Important anatomical pathways and connections of these systems

Cerebral lobes

Learning Objectives

You should be able to

- Anatomy of brain and cerebellum

Coma

Learning Objectives

You should be able to

- Approach to comatouse patient in emergency room
- Apply the first line examination
- Make the differential diagnosis
- Learn the ethiology and the treatment of coma

Headaches

Learning Objectives

You should be able to

- Clinical features of headache syndromes
- Make the differential diagnosis

- Classify headache syndromes
- Treatment of headache

Myasthenia Gravis and the other neuromuscular junction disorders

Learning Objectives

You should be able to

- Learn how to diagnose Myasthenia Gravis and the other neuromuscular junction disorders
- How to diagnose Neuromuscular emergencies
- Learn etiology
- Treatment of NM emergencies
- Neonatal and congenital myasthenic syndromes

Muscle diseases

Learning Objectives

You should be able to

- Classification of muscle diseases
- Inherited and aquired muscle disease
- Treatment of muscle diseases
- Emergency of these disorders

Motor neuron diseases

Learning Objectives

You should be able to

- Classification of diseases that involve motor neurons
- As a prototype ALS
- Prognosis and treatment strategy of ALS

Polyneuropathies

Learning Objectives

You should be able to

- Know how to approach to patient with polyneuropathy
- Classification of polyneuropathies
- Make differential diagnosis
- Treatment of polyneuropathies

Examination of eye movements

Learning Objectives

You should be able to

- Learn anatomy and function of ocular motor nerves
- Understand the causes and differential diagnosis

Neurological examination

Learning Objectives

You should be able to

- Examination of motor, extrapyramidal, cerebellar systems
- Examination of reflexes
- Examination mental status

Headache

Learning Objectives

You should be able to

- Differential diagnosis of primary and secodary headaches
- Treatment of headaches
- Headache in emergency room

Emergency states in neurology

Learning Objectives

You should be able to

- Approach to emergency states of neurologic disorders
- Learn the differential diagnosis of emergent status
- Treatment of emergency states of neurologic disorders

Speech disorders

Learning Objectives

You should be able to

- Know how to approach cortical and subcortical aphasias
- Understand lesion localisation
- Make the differential diagnosis

Fundoscopic examination and clinical utilisation

Learning Objectives

You should be able to

- Evaluation of fundus
- Causes of optic neuritis
- Approach to intracranial hypertension

Neuroradiology

Learning Objectives

You should be able to

- Basic principles of CT and MRI
- Angiography and clinical utility

Neuromuscular disease

Learning Objectives

You should be able to

- Learn physiology of the peripheral nerves, neuromuscular junction and muscles
- Approach to polyneuropathy
- Approach to myopathy and neuromuscular junction diseases

Lumbar punction and clinical utility

Learning Objectives

You should be able to

- Learn physiology of cerebrospinal fluid
- How to do lumbar punction
- Clinical use of lumbar punction in neurological disease

Examination of motor and sensorial pathways

Learning objectives

You should be able to

- Know how to examine motor and sensorial pathways of a patient with neurological disease.

Examination of cranial nerves

Learning objectives

You should be able to

- Examine cranial nerves
- Know the anathomy and the diseases of the cranial nerves
- Know how to aproach patient with a cranial nerve disorder

Aproach to extrapyramidal disorders

Learning objectives

You should be able to

- Know how to diagnose extrapyramidal disorders.
- Learn the clinical features and differential diagnosis of extrapyramidal disorders

Mental diseases

Learning objectives

You should be able to

- Know how aproach a patient with a mental disease
- Make the differential diagnosis
- Learn the clinical features,etiolggy and treatment of mental diseses

Cerebrovascular Diseases

Learning objectives

You should be able to

- Know how to diagnose cerebrovascular diseases ,
- Make classification of cerebrovascular diseases
- Learn the etiology and the treatment of cerebrovascular diseases

Examination of an aphasic patient

Learning objectives

You should be able to

- Know how to aproach an aphasic patient,
- Make classification
- Learn the the anathomical pathways of aphasia

Acute cofusional state

Learning objectives

You should be able to

- Know how to approach a patient with acute confusional state,
- Make differential diagnosis
- Learn the ethiology and the treatment of acute confusional states

Multiple sclerosis

Learning objectives

You should be able to

- Know the clinical features of multiple sclerosis,
- Make the differential diognosis
- Learn the ethiology,
- Treat the patient with an acute attack
- Learn long term teratment principles.
-

Aproach to a patient with behavior disorders

Learning objectives

You should be able to

- Know how to examine a patient with behavior disorder
- Make differential diognosis
- Treat a patient with behavioral disorders

Parkinson's disease

Learning objectives

You should be able to

- Know the clinical features of Parkinson's disease
- Make differential diagnosis
- Learn the ethiology
- Treat a patient with Parkinson's Disease.

Epilepsy

Learning objectives

You should be able to

- Know the clinical features of epilepsy
- Make the differential diagnosis,
- Classify epilepsy
- Learn etiology
- Treat a patient with epilepsy

Status Epilepticus.

Learning objectives

You should be able to

- Know how to examine a patient with status epilepticus
- Know clinical features of status epilepticus
- Make the differential diognosis
- Classify
- Learn etiology,
- Treat the patient with status epilepticus

Approach to paraplegic patient

Learning objectives

You should be able to

- Know how to examine a patient with paraplegia
- Know the clinical features of paraplegia
- Make the differential diognosis
- Learn the classification and etiology

CNS infections

Learning objectives

You should be able to

- Know how to examine a patient with CNS infection
- Know the clinical features of CNS infections
- Make the differential diognosis
- Learn the etiology

Treatment of paraplegia

Learning objectives

You should be able to

- Know how to treat a paraplegic patient

Dementia

Learning objectives

You should be able to

- Know how to examine a patient with dementia
- Know the clinical features
- Make differential diagnosis
- Learn etiology
- Treat patients with dementia

Case presentation

Learning objectives

You should be able to

- Aproach different neorolgıcal patients
- Examine patients and make differential diagnosis

Lectures:

1- Neurological examination
2- Coma
3- Headache
4- Encephalopathies
5- Cerebrovascular diseases
6- Parkinson and Extrapyramidal system disorders
7- Multiple Sclerosis and demyelinating disorders
8- Epilepsy
9- CNS infections
10- Myasthenia Gravis ve Neuromuscular junction disorders
11- Muscle diseases
12- ALS and motor neuron diseases
13- Polyneuropathies
14- Dementia
15- Sleep disorders
16- Spinal Cord Diseases

Seminars:

1. Approach to neurological ill patient
2. Examination of eye movements
3. Neurological examination
4. Pyramidal, extrapyramidal, cerebellar systems
5. Cerebral lobes
6. Cranial nerves
7. Emergency states in neurology
8. Speech disorders
9. Funduscopic examination and clinical utilisation
10. Neuroradiology
11. Lumbar punction and clinical utility
12. Examination of motor and sensory pathways
13. Mental disease
14. Examination of an aphasic patient
15. Approach to a patient with behaviorial disorders
16. Status epilepticus
17. Approach to paraplegic patient

Case presentation x 4 hrs
Grand round x 12 hrs
Outpatient clinics x 20 hrs
Pratic x 20 hrs
Emergency x 1 night/ per person

Monday 1.

08.00-09.20	Grand Round	
09.20-10.20	Grand Round	
10.30-11.20	Grand Round	
11.30-12.20	Grand Round	
13.30-14.20	Lecture Movement Disorders	MD..Fatma Candan
14.30-15.20	Lecture Movement Disorders	MDFatma Candan
15.30-16.20	Bed Side Teaching	MDFatma Candan
16.30-17.20	Bed Side Teaching	MDFatma Candan

Tuesday

08.00-09.20	Grand Round	
09.20-10.20	Grand Round	
10.30-11.20	Lecture Neurologic Examination	MD.Nihal Işık
11.30-12.20	Lecture Neurologic Examination	MD.Nihal Işık
13.30-14.20	Case presentation	MD.Fatma Candan
14.30-15.20	Case presentation	MD.Fatma Candan
15.30-16.20	Case presentation	MD.Fatma Candan
16.30-17.20	Case presentation	MD.Fatma Candan

Wednesday

08.00-09.20	Lecture Coma	MD.Nihal Işık
09.20-10.20	Grand Round	
10.30-11.20	Grand Round	
11.30-12.20	Grand Round	
13.30-14.20	Bed Side Teaching	MD.Nihal Işık
14.30-15.20	Bed Side Teaching	MD.Nihal Işık
15.30-16.20	Bed Side Teaching	MD.Nihal Işık
16.30-17.20	Bed Side Teaching	MD.Nihal Işık

Thursday

08.00-09.20	Grand Round	
09.20-10.20	Grand Round	
10.30-11.20	Lecture Multiple sclerosis	MD.Nihal Işık
11.30-12.20	Lecture Multiple sclerosis	MD.Nihal Işık
13.30-14.20	Case presentation	MD.Nihal Işık
14.30-15.20	Case presentation	MD.Nihal Işık
15.30-16.20	Case presentation	MD.Nihal Işık
16.30-17.20	Case presentation	MD.Nihal Işık

Friday

08.00-09.20	Grand Round	
09.20-10.20	Grand Round	
10.30-11.20	Grand Round	
11.30-12.20	Grand Round	
13.30-17.20	Literatüre	

***Monday* 2.**

08.00-09.20	Grand Round
09.20-10.20	Lecture Headache MD.Burcu Uğurel
10.30-11.20	Lecture Headache MD.Burcu Uğurel
11.30-12.20	Lecture Cerebro -Vascular Diseases MD.Burcu Uğurel
13.30-14.20	Lecture Cerebro -Vascular Diseases MD.Burcu Uğurel
14.30-15.20	Out patient Clinic
15.30-16.20	Out patient Clinic
16.30-17.20	Case presentation MD.Burcu Uğurel

Tuesday

08.00-09.20	Grand Round
09.20-10.20	Lecture Infections of nervous systems MD.Burcu Uğurel
10.30-11.20	Lecture Infections of nervous systems MD.Burcu Uğurel
11.30-12.20	Lecture Motor neuron Disorders MD.Burcu Uğurel
13.30-14.20	Lecture Motor neuron Disorders MD.Burcu Uğurel
14.30-15.20	Lecture Sleep Disorders MD.Burcu Uğurel
15.30-16.20	Lecture Sleep Disorders MD.Burcu Uğurel
16.30-17.20	Case presentation MD.Burcu Uğurel

Wednesday

08.00-09.20	Grand Round
09.20-10.20	Lecture Epilepsy MD. Canan Aykut Bingöl
10.30-11.20	Lecture Epilepsy MD. Canan Aykut Bingöl
11.30-12.20	Lecture Epilepsy MD.Canan Aykut Bingöl
13.30-14.20	Lecture NMJ Diseases MD.Berrin Aktekin
14.30-15.20	Lecture NMJ Diseases MD.Berrin Aktekin
15.30-16.20	Lecture Spinal Cord Diseases MD.Berrin Aktekin
16.30-17.20	Lecture Spinal Cord Diseases MD.Berrin Aktekin

Thursday

08.00-09.20	Grand Round
09.20-10.20	Lecture Encephalopathies MD.Berrin Aktekin
10.30-11.20	Lecture Encephalopathies MD.Berrin Aktekin
11.30-12.20	Lecture Muscle Diseases MD.Berrin Aktekin
13.30-14.20	Lecture Muscle Diseases MD.Berrin Aktekin
14.30-15.20	Lecture Disorders of peripheral Nerves MD.Berrin Aktekin
15.30-16.20	Lecture Disorders of peripheral Nerves MD.Berrin Aktekin
16.30-17.20	Case presentation MD.Berrin Aktekin

Friday

08.00-09.20	Grand Round
09.20-10.20	Lecture Muscle Diseases MD.Berrin Aktekin

10.30-11.20	Lecture	Dementia	MD.Burcu Uğurel
11.30-12.20	Lecture	Dementia	MD.Burcu Uğurel
13.30-17.20	Case presentation		MD.Berrin Aktekin

Monday 3.

08.00-09.20	Grand Round	
09.20-10.20	Grand Round	
10.30-12.00	Grand Round	
13.30-14.20	Bed Side Teaching	MD.Nihal Işık
14.30-1700	Bed Side Teaching	MD.Nihal Işık

Tuesday

08.30-09.20	Grand Round	
09.30-10.20	Grand Round	
10.30-12.00	Grand Round	
13.30-14.20	Bed Side Teaching	MD.Fatma Candan
14.30-1700	Bed Side Teaching	MD.Fatma Candan

Wednesday

08.30-09.20	Grand Round	
09.30-10.20	Grand Round	
10.30-12.00	Out patient Clinic	
13.30-14.20	Out patient Clinic	
14.30-1700	Out patient Clinic	

Thursday

08.30-09.20	Grand Round	
09.30-10.20	Grand Round	
10.30-12.00	Grand Round	
13.30-14.20	Out patient Clinic	
14.30-1700	Out patient Clinic	

Friday

09.00-14.30	Exam	

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
UROLOGY
(3 weeks)

In this internship program, the target population is fifth class students of medical faculty. Our first principle is to educate these students as self-confident and free minded people. Also our aim is educating students to gain the knowledge and ability on the diagnosis and the treatment of the urological disorders as researcher and productive scientists. At the same time students are educated to have the knowledge for directing the patient to an urologist if needed.

Our mission is to bring up doctors to the world with the highest level actual knowledge on urology and the uppermost clinical urological ability.

In this context;

1. Improvement of theoretical lessons with practical studies.

   Physical and radiological examination of the patient with urological disorder
2. Evaluation of the treatment principles on urological emergencies and simple urological approaches (i.e. urethral cathaterization)
3. Evaluation of actual developments in urology.
4. Accommodation of students to lessons with active participation and bringing up the experiences of researching and presentating a subject.
5. Introduction of basic urological principles in endoscopic and open surgeries
6. Introduction of the department of urology to the students who are interested in urology.

Methods :

1) Theoretical lessons

2) Interactive lessons

- Active education in urology polyclinic (anamnesis, physical examination, evaluation of the patient, discussion of the patient with prelectors)
- Education in the inpatient service.
- Education in the operating room (Practising the basic medical instrumentation, practising surgery or assistance when the prelectors deem suitable)
- Interactive video-urology

EDUCATİON AND STUDY PLAN:

Basic Principles :

Trainees will be divided to subgroups according to the total number. The subgroups will practice ESWL, urodinamy, evaluating the patient in the urology polyclinic and approaches in the operating room according to a program.

Every subgroup will work with a prelector in this internship and will have patient evaluations with him. Trainees will be involved in all the clinical studies of the prelector. Trainees will follow-up the patients

Practical Exercises:

Trainees are responsible to follow up the patients for medical history, physical and laboratory examination and treatment plan. Trainee subgroups will be ready in the operating rooms at the operating days of the prelector who they work with , and asist the suitable operations actively. Trainees will be involved in the basic urological approaches (i.e. urethral cathater placement, suturing, medical dressing. Other then this , they will help the assistant in the polyclinic or inpatient service.

Clinical Practice :

Every subgroup will be with prelector , in the medical examination , diagnosis , and treatment stages. The introduction of the diagnosis and treatment equipments will be done by prelector (urodinamy , uroflowmetry, ESWL, transrectal ultrasonographic prostat biopsy).

At the end of the internship, trainees should have the knowledge and ability of the diagnosis and treatment about the following subjects.

- Diagnosis and the treatment of the renal colic.
- Evaluation of hematuria
- Diagnosis of the urinary retention and obstruction.
- Urinary system stone disorder and first-stage treatment
- Signs,symptoms and diagnosis of the urological cancers
- The role of physicians in urological emergencies
- Diagnosis of the erectil dysfunction
- Diagnosis and the treatment of nocturnal enuresis.
- The primarily approach in the pediatric urology.
- Diagnosis and treatment in the sexually-transmitted diseases.

- PSA and BPH
- Diagnosis and treatment of the urinary infections.

At the end of the internship , the trainees should have the enough practical and surgical abilities about the following subjects.

- Physical examination
- Vaginal inspection
- Digital rectal examination
- Examination of the scrotum and the testis
- Urethral Cathaterization.

1. Day

09.00-09.45	LESSON	Anatomy of the Genitourinary Tract	Kemal Sarıca
10.00-10.45	LESSON	Symptoms of the Disorders of the Genitourinary Tract	Kemal Sarıca
11.00-11.45	LESSON	Urological Laboratory Examination	Kemal Sarıca

2. Day

09.00-09.45	LESSON	Radiology of the Genitourinary Tract	Faruk Yencilek
10.00-10.45	LESSON	Instrumentation and Endoscopic Studies	Faruk Yencilek
11.00-11.45	LESSON	Urologic Diseases Which Need Early Diagnosis	Faruk Yencilek

3. Day

09.00-09.45	LESSON	Urological Emergencies	Faruk Yencilek
10.00-10.45	LESSON	Benign Prostatic Hyperplasia	Hakan Koyuncu
11.00-11.45	LESSON	Benign Prostatic Hyperplasia	Hakan Koyuncu

4. Day

09.00-09.45	LESSON	Prostatic Diseases-Prostatitis	Hakan Koyuncu
10.00-10.45	LESSON	Nonspesific Infections of the Genitourinary Tract	Hakan Koyuncu
11.00-11.45	LESSON	Spesific Infections of the Genitourinary Tract	Hakan Koyuncu

5. Day

09.00-09.45	LESSON	Vesicoureteral Reflux	Kemal Sarıca
10.00-10.45	LESSON	Prostate Cancer	Faruk Yencilek
11.00-11.45	LESSON	Prostate Cancer	Faruk Yencilek

6. Day

09.00-09.45	LESSON	Renal Neoplasms	Faruk Yencilek
10.00-10.45	LESSON	Renal Neoplasms	Faruk Yencilek
11.00-11.45	LESSON	Congenital Diseases of Kidney	Kemal Sarıca
13.00-13.45	PRACTISE	Medical History and Physical Examination	Kemal Sarıca
14.00-14.45	PRACTISE	Medical History and Physical Examination	Kemal Sarıca
15.00-15.45	PRACTISE	Laboratory	Kemal Sarıca

7. Day

09.00-09.45	LESSON	Voiding Physiology	Hakan Koyuncu
10.00-10.45	LESSON	Urodynamic Studies	Hakan Koyuncu
11.00-11.45	LESSON	Male Sexual Dysfunctions	Hakan Koyuncu
13.00-13.45	PRACTISE	Urodynamic Studies	Hakan Koyuncu
14.00-14.45	PRACTISE	Urodynamic Studies	Hakan Koyuncu
15.00-15.45	PRACTISE	Polyclinic	Hakan Koyuncu

8. Day

09.00-09.45	LESSON	Sexually Transmitted Diseases	Hakan Koyuncu
10.00-10.45	LESSON	Male Infertility	Hakan Koyuncu
11.00-11.45	LESSON	Male Infertility	Hakan Koyuncu
13.00-13.45	PRACTISE	Uroradiology	Kemal Sarıca
14.00-14.45	PRACTISE	Uroradiology	Kemal Sarıca
15.00-15.45	PRACTISE	Uroradiology	Kemal Sarıca

9. Day

09.00-09.45	LESSON	Urinary Stone Disease	Kemal Sarıca
10.00-10.45	LESSON	Urinary Stone Disease	Kemal Sarıca
11.00-11.45	LESSON	Urinary Obstruction&Stasis	Kemal Sarıca
13.00-13.45	PRACTISE	Polyclinic	Kemal Sarıca
14.00-14.45	PRACTISE	Polyclinic	Kemal Sarıca
15.00-15.45	PRACTISE	Polyclinic	Kemal Sarıca

10.Day

09.00-09.45	LESSON	Incontinence	Hakan Koyuncu
10.00-10.45	LESSON	Urinary Obstruction	Kemal Sarıca
11.00-11.45	LESSON	Scrotal and Related Diseases	Kemal Sarıca
13.00-13.45	PRACTISE	Operating Room	Kemal Sarıca
14.00-14.45	PRACTISE	Operating Room	Kemal Sarıca
15.00-15.45	PRACTISE	Operating Room	Kemal Sarıca
15.00-15.45	PRACTISE	Operating Room	Kemal Sarıca

11. Day

09.00-09.45	LESSON	Urogenital Trauma	Kemal Sarıca
10.00-10.45	LESSON	Diseases of the Urethra	Kemal Sarıca
11.00-11.45	LESSON	Neuropathic Bladder Disorders	Faruk Yencilek

12. Day

09.00-09.45	LESSON	Urologic Problems in Pregnancy	Kemal Sarıca
10.00-10.45	LESSON	Disorders of Adrenal Glands	Faruk Yencilek
11.00-11.45	LESSON	Invasive Uroradyology	Faruk Yencilek

13. Day

09.00-09.45	LESSON	Tumors of Testis	Faruk Yencilek
10.00-10.45	LESSON	Tumors of Testis	Faruk Yencilek
11.00-11.45	LESSON	Diseases of Penis	Hakan Koyuncu
13.00-13.45	PRACTISE	Cystoscopy	Kemal Sarıca
14.00-14.45	PRACTISE	Cystoscopy	Kemal Sarıca
15.00-15.45	PRACTISE	Uroflowmetry	Hakan Koyuncu

14. Day

09.00-09.45	LESSON	Congenital Diseases of Bladder	Kemal Sarıca
10.00-10.45	LESSON	Urothelial Tumors	Faruk Yencilek
11.00-11.45	LESSON	Urothelial Tumors	Faruk Yencilek
13.00-13.45	PRACTISE	Operating Room	Kemal Sarıca
14.00-14.45	PRACTISE	Operating Room	Kemal Sarıca
15.00-15.45	PRACTISE	Operating Room	Kemal Sarıca

YEDITEPE UNIVERSITY FACULTY OF MEDICINE
FORENSIC MEDICINE CLERKSHIP PROGRAM
(1,5 weeks)

Oğuz Polat MD, Pro.
M.Ercüment Aksoy MD, Prof.

GROUP I.

Time					
09:00-09:45	Forensic System and Physician Polat O. MD.	Forensic Autopsy I. Polat O. MD.	Sexual offences I. Polat O. MD.		The pathophysiology of death Aksoy ME MD.
10:00-10:45	Child rights Polat O. MD.	Forensic Autopsy II. Polat O. MD.	Sexual offences II. Polat O. MD.		Post Mortem Changes Aksoy ME MD.
11:00-11-45	Child abuse and neglect Polat O. MD.	Forensic Autopsy III. Polat O. MD.	Crime scene Investigation Polat O. MD.		Time of death Aksoy ME MD.
13:00-13:45	Elder Abuse Polat O. MD.	Suffocation and asphyxia Polat O. MD.	Forensic Autopsy Practice Polat O. MD.		The establishment of identity of human remains Aksoy ME MD.
14:00-14:45	Legal aspects of child abuse Polat O. MD.	Fatal pressure on the neck Polat O. MD.	Forensic Autopsy Practice Polat O. MD.		Turkish Penalty Code and physician Aksoy ME MD.
15:00-15:45	Forensic psychiatry Polat O. MD.	Human Rights Violations Polat O. MD.	Forensic Autopsy Practice Polat O. MD.		Evaluation of Legal Cases Aksoy ME MD.

Time					
09:00-09:45	The pathology of wounds I. Polat O. MD.	Report Writing I. Aksoy ME MD.	Forensic aspects of alcohol Aksoy ME MD.		
10:00-10:45	The pathology of wounds II. Polat O. MD.	Report Writing II. Aksoy ME MD.	Poisoning with medicines Aksoy ME MD.		
11:00-11:45	Sharp force injuries Polat O. MD.	Electrical injuries Aksoy ME MD.	Narcotic and hallucinogenic drugs Aksoy ME MD.		
13:00-13:45	Blunt force injuries Aksoy ME MD.	Immersion deaths Aksoy ME MD.	The pathology of sudden death Aksoy ME MD.		
14:00-14:45	Gunshot and explosion deaths I. Aksoy ME MD.	Poisoning Aksoy ME MD.	Exam Aksoy ME MD.		
15:00-15:45	Gunshot and explosion deaths II. Aksoy ME MD.	Carbon monoxide poisoning Aksoy ME MD.	Exam Aksoy ME MD.		

GROUP II.

Time					
09:00-09:45				Forensic System and Physician Polat O. MD.	Forensic Autopsy I. Polat O. MD.
10:00-10:45				Child rights Polat O. MD.	Forensic Autopsy II. Polat O. MD.
11:00-11-45				Child abuse and neglect Polat O. MD.	Forensic Autopsy III. Polat O. MD.
13:00-13:45				Elder Abuse Polat O. MD.	Suffocation and asphyxia Polat O. MD.
14:00-14:45				Legal aspects of child abuse Polat O. MD.	Fatal pressure on the neck Polat O. MD.
15:00-15:45				Forensic psychiatry Polat O. MD.	Human Rights Violations Polat O. MD.

Time					
09:00-09:45	Sexual offences I. Polat O. MD.	The pathophysiology of death Aksoy ME MD.	The pathology of wounds I. Polat O. MD.	Report Writing I. Aksoy ME MD.	Forensic aspects of alcohol Aksoy ME MD.
10:00-10:45	Sexual offences II. Polat O. MD.	Post Mortem Changes Aksoy ME MD.	The pathology of wounds II. Polat O. MD.	Report Writing II. Aksoy ME MD.	Poisoning with medicines Aksoy ME MD.
11:00-11:45	Crime scene Investigation Polat O. MD.	Time of death Aksoy ME MD.	Sharp force injuries Polat O. MD.	Electrical injuries Aksoy ME MD.	Narcotic and hallucinogenic drugs Aksoy ME MD.
13:00-13:45	Forensic Autopsy Practice Polat O. MD.	The establishment of identity of human remains Aksoy ME MD.	Blunt force injuries Aksoy ME MD.	Immersion deaths Aksoy ME MD.	The pathology of sudden death Aksoy ME MD.
14:00-14:45	Forensic Autopsy Practice Polat O. MD.	Turkish Penalty Code and physician Aksoy ME MD.	Gunshot and explosion deaths I. Aksoy ME MD.	Poisoning Aksoy ME MD.	Exam Aksoy ME MD.
15:00-15:45	Forensic Autopsy Practice Polat O. MD.	Evaluation of Legal Cases Aksoy ME MD.	Gunshot and explosion deaths II. Aksoy ME MD.	Carbon monoxide poisoning Aksoy ME MD.	Exam Aksoy ME MD.

CLINICAL PHARMACOLOGY
RATIONAL PHARMACOTHERAPY – RATIONAL DRUG USE
Prof.Dr. Ece Genç, Prof. Dr. Serdar Alpan, Prof. Dr.Zafer Gören
(1,5 week)

DAY	TOPIC
MONDAY	
9:00 - 9:45	Introduction to the program, OSCE Examination and its specifications
10:00 -10:45	"Groningen" model in Rational Pharmacotherapy
11:00 - 12:00	Good Prescribing Guide
12:00 – 13:00	LUNCH BREAK
13:00 – 13:45	Personal Drugs, Introduction of the MAUA forms
14:00 – 16:00	Clinical Pharmacology of antihypertensive drugs
TUESDAY	
9:00 – 12:00	Student presentations of antihypertensive drugs
12:00 – 13:00	LUNCH BREAK
13:00 – 15:00	Personal drugs for hypertension 1
WEDNESDAY	
9:00 - 11:00	Personal drugs for hypertension 2
11:00 - 12:00	Solving case studies for hypertension
12:00 – 13:00	LUNCH BREAK
13:00 - 15:00	Further case studies on hypertension
THURSDAY	
10:00 - 12:00	Urinary tract infections, goals of therapy and non-pharmacological therapy methods
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Personal drugs for urinary tract infections
FRIDAY	
9:00 - 12:00	Solving case studies for urinary tract infections
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Further case studies on urinary tract infections

DAY	TOPIC
MONDAY 9:00 – 12:00	Antimicrobials for sinusitis
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Determination of P-drugs for sinusitis 1
TUESDAY 9:00 – 12:00	Determination of P-drugs for sinusitis 2
:00 – 13:00	LUNCH BREAK
13:00 – 15:00	Solving case studies in sinusitis
WEDNESDAY 9:00 – 12:00	OSCE examinatıon
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Evaluation of the rational drug therapy clerkship

CLINICAL PHARMACOLOGY (2nd Group)
RATIONAL PHARMACOTHERAPY – RATIONAL DRUG USE
Prof.Dr. Ece Genç, Prof. Dr. Serdar Alpan, Prof. Dr.Zafer Gören (1,5 week)

DAY	TOPIC
THURSDAY	
9:00 - 9:45	Introduction to the program, OSCE Examination and its specifications
10:00 -10:45	"Groningen" model in Rational Pharmacotherapy
11:00 - 12:00	Good Prescribing Guide
12:00 – 13:00	LUNCH BREAK
13:00 – 13:45	Personal Drugs, Introduction of the MAUA forms
14:00 – 16:00	Clinical Pharmacology of antihypertensive drugs
FRIDAY	
9:00 – 12:00	Student presentations of antihypertensive drugs
12:00 – 13:00	LUNCH BREAK
13:00 – 15:00	Personal drugs for hypertension 1
MONDAY	
9:00 - 11:00	Personal drugs for hypertension 2
11:00 - 12:00	Solving case studies for hypertension
12:00 – 13:00	LUNCH BREAK
13:00 - 15:00	Further case studies on hypertension
TUESDAY	
10:00 - 12:00	Urinary tract infections, goals of therapy and non-pharmacological therapy methods
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Personal drugs for urinary tract infections
WEDNESDAY	
9:00 - 12:00	Solving case studies for urinary tract infections
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Further case studies on urinary tract infections
THURSDAY	

9:00 – 12:00	Antimicrobials for sinusitis
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Determination of P-drugs for sinusitis and solving case studies in sinusitis
FRIDAY	
9:00 – 12:00	OSCE examinatıon
12:00 – 13:00	LUNCH BREAK
13:00 – 16:00	Evaluation of the rational drug therapy clerkship

Contact

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Tıp Fakültesi Dekanlığı

26 Ağustos Yerleşimi
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