**NEAR EAST UNIVERSITY FACULTY of MEDICINE**

**PHASE V**

**COURSE CATALOGUE**

**2022 – 2023**

# COORDINATOR

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# ASSISTANT COORDINATOR

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 **CLERKSHIP PROGRAMS (TOTAL:38 WEEKS):**

**MED 501 CLINICAL ETHICS (1 Week)**

**MED 502 DERMATOLOGY (3 weeks)**

**MED 503 ELECTIVE (2 weeks)**

**(Anesthesiology and Reanimation, Cardiovascular Surgery, Neurosurgery, Pediatric Surgery, Plastic Surgery or Thoracic Surgery)**

**MED 504 EMERGENCY MEDICINE (2 weeks)**

**MED505 EVIDENCE BASED MEDICINE (2 weeks)**

**MED 506 FORENSIC MEDICINE (1 week)**

**MED 507 INFECTIOUS DISEASE (3 weeks)**

**MED 508 NEUROLOGY (3 weeks)**

**MED 509 NUCLEAR MEDICINE (1 week)**

**MED 510 OPHTHALMOLOGY (3 weeks)**

**MED 511 ORTHOPEDICS AND TRAUMATOLOGY (3 weeks)**

**MED 512 OTORHINOLARYNGOLOGY (3 weeks)**

**MED 513 PHYSICAL MEDICINE AND REHABILITATION (3 weeks)**

**MED 514 PSYCHIATRY CHILD and ADOLESCENT PSYCHIATRY (3 weeks)**

**MED 515 RADIOLOGY (2 weeks)**

**MED 516 RADIATION ONCOLOGY (Tuesdays at 15:00-17:00)**

**MED 517 UROLOGY (3 weeks)**

**DERMATOLOGY CLERKSHIP PROGRAM**

**Clerkship duration:** 3 weeks

**Aims of Dermatology Clerkship**

* To be able to distinguish the health problems evaluated in the scope of skin and venereal diseases
* Diagnosis and differential diagnosis of the disease with skin, skin attachments (hair and nails), oral and genital mucosal involvement
* Diagnosis and treatment of sexually transmitted diseases with skin and mucous involvement

**Learning objectives**

* Detailed and accurate dermatological anamnesis
* Dermatological examination of skin, hair, scalp, nail, oral and genital mucosa
* Identify the elementary lesions and associate with the correct disease
* Diagnosis and treatment of frequently seen dermatological diseases
* Perform basic diagnostic methods ( (native preparation, wood examination)
* Registration and report of notifiable disease
* Recognition of dermatologic emergencies (such as urticaria, angioedema, erythroderma, toxic epidermal necrolysis) and to choose patients who should be sent to a specialist
* İdentifying suspicious skin lesions and sent to a specialist for potential skin cancer

**Skills and Attitudes**

* Dermatovenereologic history taking and physcial examination
* Differentiate dermatologic lesions which are related to systemic disease and sent patient to a dermatologist
* Identification of elementary lesions

**Evaluation method**

* Written exam: 60% (multiple choice questions)
* Oral exam: 40%

**Reference text books:**

* Color Atlas and Synopsis of Pediatric Dermatology
* Fitzpatrick’s Color Atlas and Synopsis of Clinical Dermatology

**DERMATOLOGY CLERKSHIP PROGRAMME**

**Week 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Saat | 1. Gün
 | 1. Gün
 | 1. Gün
 | 1. Gün
 | 1. Gün
 |
| 08:30-09:30 | Clinic visit | **Lect05** | Clinic visit | Clinic visit | Clinic visit |
| 09:30-10:30 | **Lect01** | **Lect 05** | **Lect 07** | **Lect 09** | **Lect 12** |
| 10:30- 11:30 | **Lect02** | **Lect 06** | **Lect 07** | **Lect 10** | **Lect 13** |
| 11:30-12:30 | Clinical session -practical | **Lect 06** | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 12:30-13:30 | Lunch time | Lunch time | Lunch time | Lunch time | Lunch time |
| 13:30-14:30 | **Lect 03** | Clinical session -practical | **Lect 08** | **Lect 11** | **Lect 14** |
| 14:30-15:30 | **Lect 04** | Clinical session -practical | **Lect 08** | **Lect 11** | **Lect 14** |
| 15:30-16:30 | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 16:30-17:00 | İndependent learning  | İndependent learning | İndependent learning | İndependent learning | İndependent learning |

|  |  |  |
| --- | --- | --- |
| **Lect 01**  | **Introduction to dermatological examination**  | 1 h |
| **Lect 02**  | **Elemantary lesions**  | 1 h |
| **Lect 03**  | **Diagnostic methods and Phenomens in diagnosis**  | 1 h  |
| **Lect 04**  | **Urticaria and angioedema**  | 1 h  |
| **Lect 05**  | **Viral dermatoses**  | 2 h |
| **Lect 06**  | **Erythemato-squamous dermatoses**  **(psoriasis, lichen planus, pitriasis rosea, erytroderma)**  | 2 h  |
| **Lect 07**  | **Superficial fungal infections**  | 2 h |
| **Lect 08**  | **Sexually transmitted diseases**  | 2 h |
| **Lect 09** | **Mycobacterial dermatoses (Cutaneous tuberculosis)**  | 1 h |
| **Lect 10**  | **Mycobacterial dermatoses (Cutaneous lepra**)  | 1 h |
| **Lect 11**  | **Tumors of the skin** (**Benign and malign)**  | 2 h |
| **Lect 12**  | **Diseases of the hairs**  | 1 h |
| **Lect 13** | **Parasitic dermatoses**  | 1 h  |
| **Lect 14** | **Dermatitis (Contact, Atopic, Seboreic)**  | 2 h  |
|  |  |  |
|  |  |  |

**Week 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Saat | 1. Gün
 | 1. Gün
 | 1. Gün
 | 1. Gün
 | 1. Gün
 |
| 08:30-09:30 | Clinic visit | Clinic visit | Clinic visit | Clinic visit | Clinic visit |
| 09:30-10:30 | **Lect 15** | **Lect 18** | **Lect 20** | **Lect 21** | **Lect 23** |
| 10:30- 11:30 | **Lect 15** | **Lect 19** | **Lect 20** | **Lect 22** | **Lect 24** |
| 11:30-12:30 | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 12:30-13:30 | Lunch time | Lunch time | Lunch time | Lunch time | Lunch time |
| 13:30-14:30 | **Lect 16** | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 14:30-15:30 | **Lect 17** | Clinical session -practical | Clinical session  | Clinical session -practical | Clinical session -practical |
| 15:30-16:30 | İndependent learning  | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 16:30-17:00 | İndependent learning  | İndependent learning  | İndependent learning  | İndependent learning  | İndependent learning  |

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| --- | --- | --- |
| **Lect 15**  | **Bacterial diseases of the skin**  **(Erysipelas, cellulitis, folliculitis, furuncles, carbuncles, paronychia)**   | 2 h  |
| **Lect 16**  | **Bullous dermatoses**  | 1 h  |
| **Lect 17**  | **Drug eruptions**  | 1 h  |
| **Lect 18**  | **Eritema multiforme,** **SJS, TEN**  | 1 h  |
| **Lect 19**  | **Behçet disease, Erythema Nodosum**  | 1 h  |
| **Lect 20**  | **Connective tissue diseases** **(SLE, Dermatomyositis, Scleroderma, Morfea)**  | 2 h |
| **Lect 21**  | **Acne vulgaris, Rozase**  | 1 h |
| **Lect 22**  | **Dermatological manifestations of internal diseases**  | 1 h |
| **Lect 23**  | **Cutaneous Leishmaniasis**  | 1 h  |
| **Lect 24** | **Dermatoses of oral mucosa**  | 1 h  |

**Week 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Saat | 1. Gün
 | 1. Gün
 |  |  |  |
| 08:30-09:30 | Clinic visit | Clinic visit | Clinic visit | Clinic visit | **Exam** |
| 09:30-10:30 | **Lect 25** | **Lect 26** | **Lect 28** | **Lect 30** |
| 10:30- 11:30 | **Lect 25** | **Lect 27** | **Lect 29** | Clinical session -practical |
| 11:30-12:30 | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 12:30-13:30 | Lunch time | Lunch time | Lunch time | Lunch time |  |
| 13:30-14:30 | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical | **Program Evaluation Session**Review of the Exam Questions,Evaluation of the Program |
| 14:30-15:30 | Clinical session -practical | Clinical session -practical | Clinical session -practical | Clinical session -practical |
| 15:30-16:30 | İndependent learning  | İndependent learning  | İndependent learning  | İndependent learning  |
| 16:30-17:00 | İndependent learning  | İndependent learning  | İndependent learning  | İndependent learning  |

|  |  |  |
| --- | --- | --- |
| **Lect 25** | **Dermatoses of pigmentation** **(Hypopigmentation-Hyperpigmentation)** | 2 h  |
| **Lect 26**  | **Diseases of the nails**  | 1 h  |
| **Lect 27**  | **Cutaneous vasculitis**  | 1 h |
| **Lect 28**  | **Phototherapy**  | 1 h |

 **Lect 29 Sun and skin** 1 h

 **Lect 30 Dermatoscopy**  1 h

**ANESTHESIOLOGY AND REANIMATION CLERKSHIP PROGRAM**

**(2 weeks)**

|  |  |
| --- | --- |
| **CLERKSHIP** | **ANESTHESIOLOGY AND REANIMATION** Aim of this clerkship is to; |
| **AIM** | 1. convey necessary knowledge on anesthesia and anesthesia methods, pharmacologic properties of anesthetic agents and their clinical practice.
2. equip students with skills and attitudes required to manage patients in intensive care unit.
 |
| **LEARNING OBJECTIVES** | At the end of this term, student should be able to: |
| **KNOWLEDGE** | 1. define anesthesia and explain theories of anesthesia. |
|  | 2. define anesthetic agents and their pharmacologic properties. |
| 3. describe anesthesia methods and practices. |
| 4. evaluate anatomy of airway |
| 5. list airway management equipment |
| **SKILLS** | 6. use transport ventilator |
|  | 7. manage airway (face mask ventilation, airway insertion, laryngeal mask airway insertion). |
| 8. do endotracheal intubation on proper patient or on training model. |
| 9. perform cardiopulmonary resuscitation. |
| 10. practice hemodynamic monitoring |
| 11. analyze hemodynamic monitoring. |
| **ATTITUDES** | 12. be prepared for cardiopulmonary resuscitation process |
|  | 13. follow clinical reflections of anesthetic drugs |
| 14. analyze which situations and patients require intensive care unit. |
| **COMPETENCIES** | 15. practice basic life support and advanced life support |

**ASSESSMENT TABLE**

This table shows question types and assessment methods/tools used in training program.

|  |  |
| --- | --- |
| **Question Types (Pencil-Paper Tests)** | Proportion (in Pencil-Paper Tests) |
| **Multiple Choice Questions** | 60% |
| **Extended Matching Questions** | 20% |
| **Key Features** | 20% |
| **Total** | 100 % |
| **Other Assessment Methods and Tools** | Proportion (in Other Assessments Methods and Tools) |
| **Structured Oral Exam (SOE)** | 80% |
| **Direct Observation of Procedural Skills (DOPS)** | 20% |
| **Total** | 100 % |
| **Pass/Fail Decision** | Proportion (in Pass/Fail Decision) |
| **Pencil-Paper Tests** | 50% |
| **Other Assessments Methods and Tools** | 50% |

**Week 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **08.30-12.30** | **Introductory Session** (Introduction to Anesthesia) | **Clinical Experience (Inpatient /Outpatient)** | **Clinical Experience (Inpatient****/Outpatient)** | **Clinical Experience (Inpatient****/Outpatient)** | **Clinical Experience (Inpatient****/Outpatient)** |
| **12.30-13:50** | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| **14.00-14.50** | **Lecture**Introduction to General Anesthesia | **Lecture**Anaphylaxis | **Lecture**Coma / Brain Death | **Lecture**Acid-Base Disorders and Arterial Blood Gas Evaluation-I | **Lecture**Airway Management |
| **15.00-15.50** | **Lecture**Fluid-Electrolyte Balance | **Lecture**Pain | **Lecture**Sepsis | **Lecture**Acid-Base Disorders and Arterial Blood Gas Evaluation-II | **Lecture**Introduction to Mechanical Ventilation |
| **16.00- 16.50** | **Independent Learning** | **Independent Learning** | **Independent** **Learning** | **Independent** **Learning** | **Independent** **Learning** |

**Week 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **08.30-12.30** | **Clinical Experience (Inpatient****/Outpatient)** | **Clinical Experience (Inpatient /Outpatient)** | **Clinical Experience (Inpatient****/Outpatient)** | **Clinical Experience (Inpatient****/Outpatient)** | **Assessment Session (Exam)** |
| **12.30-13:50** | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| **14.00-14.50** | **Lecture**Acute Respiratory Insufficiency | **Lecture**Basic Life Support | **Simulation Session**Case Simulation | **Clinical Experience (Inpatient****/Outpatient)** | **Assessment Session** |
| **15.00-15.50** | **Lecture**Shock | **Lecture**Advanced Life Support | **Independent** **Learning** | **Independent** **Learning** | **Program Evaluation Session** Review of the Exam Questions |
| **16.00- 16.50** | **Independent Learning** | **Independent Learning** | **Independent** **Learning** | **Independent** **Learning** |

**EMERGENCY MEDICINE CLERKSHIP PROGRAM**

**(2 weeks)**

|  |  |
| --- | --- |
| **CLERKSHIP** | **EMERGENCY TFT/MEDICINE** Aim of this clerkship programme is to; |
| **AIM** | 1. Manage the patient in emergency department
 |
| **LEARNING OBJECTIVES** | At the end of this term, student should be able to: |
| **KNOWLEDGE** | 1. define emergency situations |
|  | 2. respond to emergency situations |
| 3. describeairway methods and practices. |
| 4. define cardiopulmonary resustaion |
| **SKILLS** | 5. use monitor |
|  | 6. manage airway (face mask ventilation, airway insertion, laryngeal mask airway insertion). |
| 7. do endotracheal intubation on proper patient or on training model. |
| 8. analyze hemodynamic monitoring. |
| **ATTITUDES** | 9. be prepared for cardiopulmonary resuscitation process |
|  | 10. follow clinical reflections of emergency drugs |
| 11. analyze which situations and patients require emergency intervention. |
| **COMPETENCIES** | 12. practice basic life support and advanced life support |

**ASSESSMENT TABLE**

|  |  |
| --- | --- |
| **Question Types (Pencil-Paper Tests)** | Proportion (in Pencil-Paper Tests) |
| **Multiple Choice Questions** | 60% |
| **Extended Matching Questions** | 20% |
| **Key Features** | 20% |
| **Total** | 100 % |
| **Other Assessment Methods and Tools** | Proportion (in Other Assessments Methods and Tools) |
| **Structured Oral Exam (SOE)** | 80% |
| **Direct Observation of Procedural Skills (DOPS)** | 20% |
| **Total** | 100 % |
| **Pass/Fail Decision** | Proportion (in Pass/Fail Decision) |
| **Pencil-Paper Tests** | 50% |
| **Other Assessments Methods and Tools** | 50% |

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| --- | --- | --- | --- | --- | --- |
| *WEEK 1**PHASE V**EMERGENCY**MEDICINE**CLERKSHIP**PROGRAMME* | Monday | Tuesday | Wednesday | Thursday | Friday |
| 08:30 – 12:30 | LectureGeneral Approach to Emergency CasesHeadache | LectureChest PainDyspnea | LectureAltered Mental StatusSyncope | LecturePrimary and Secondary Evaluation in Trauma Patient | LectureCranial, Servical and Maxillofacial Injuries  |
| 12:30 – 13:30 | ***Lunch*** | ***Lunch*** | ***Lunch*** | ***Lunch*** | ***Lunch*** |
| 13:30 – 16:30 | LectureAbdominal Pain | PracticalPhysical Examination | PracticalCase Discussions | LectureAirway Management in Trauma PatientShock in Trauma Patient | LectureThorax, Abdomen and Extremity Injuries |

**Week 1**

**Week 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *WEEK 2**PHASE V**EMERGENCY**MEDICINE**CLERKSHIP**PROGRAMME* | Monday | Tuesday | Wednesday | Thursday | Friday |
| 08:30 – 12:30 | PracticalSuture Techniques | LectureBasic Life Support Adult/Pediatric | LectureECG & ArrhythmiasStable/Unstable Patient | LectureAdvanced Cardiac Life SupportAdult/Pediatric | **EXAMS** |
| 12:30 – 13:30 | ***Lunch*** | ***Lunch*** | ***Lunch*** | ***Lunch*** | ***Lunch*** |
| 13:30 – 16:30 | Practical(mannequin) | PracticalBasic Life Support (mannequin) | PracticalECG & ArrhythmiasCase Discussions | PracticalAdvanced Cardiac Life Support(mannequin) | **EXAMS** |

**EVIDENCE – BASED /MEDICINE PROGRAMME**

**(2 weeks)**

**NEAR EAST UNIVERSITY**

|  |  |
| --- | --- |
| **CLERKSHIP**  | **EVIDENCE – BASED TFT/MEDICINE***Aim of this clerkship is to:* |
| **AIM**  | 1. ***Intend*** for students to acquire knowledge and develop skills concerning the effective use of TFT/MEDical literature for the diagnosis and treatment of their future patients
2. ***Develop*** students’ practical ability to apply concepts and knowledge in previous epidemiology courses and to solve clinical problems
3. ***Familiar*** with problem-based learning method to solve clinical cases by applying the latest scientific evidence
 |
| **LEARNING OBJECTIVES** *At the end of this term, student should be able to:* |
| **KNOWLEDGE**  | 1. ***Explain*** the philosophy, aim and importance of evidence-based TFT/MEDicine
 |
|  | 1. ***Describe*** the key steps of the practice of evidence-based TFT/MEDicine
 |
|  | 1. ***Describe*** the hierarchy of evidence obtained from different types of studies
 |
|  | 1. ***Evaluate***
* morbidity
* mortality
* causality

 using different measurements from different study types |
|  | 1. ***Describe*** the study methods used in each types of studies
 |
|  | 1. ***Calculate*** the validity and reliability
 |
|  | 1. ***Interprete*** the validity and reliability
 |
|  | 1. ***Describe***
* null hypothesis
* alternative hypothesis
* bias
* type 1/type 2 errors
* p value
* confidence interval.
 |
|  | 1. ***Interprete***
* null hypothesis
* alternative hypothesis
* bias
* type 1/type 2 errors
* p value
* confidence interval
 |
|  | 1. ***Describe*** the difference between screening tests and diagnostic tests
 |
|  | 1. ***Define***
* sensitivity
* specificity
* positive predictive value
* negative predictive value
* likelihood ratios
 |
|  | 1. ***Calulate***
* sensitivity
* specificity
* positive predictive value
* negative predictive value
* likelihood ratios
 |
|  | 1. ***Interprete***
* sensitivity
* specificity
* positive predictive value
* negative predictive value
* likelihood ratios
 |
|  | 1. ***Describe*** problem-based learning method/steps
 |
|  | 1. ***Use*** problem-based learning method/steps
 |
|  | 1. ***Define*** PICO (**P**atient/Problem/Population-**I**ntervention-**C**omparison/Control-**O**utcome) questions and describe the difference between background and forground questions
 |
|  | 1. ***Describe*** the main sources of evidence for experimental and

observational studies  |
| **SKILLS** | 1. ***Develop*** PICO questions based on a specific clinical case/ identify types of evidence to acquire
 |
|  | 1. ***Evaluate*** the internal and external validity of the evidence using appropriate checklist
 |
|  | 1. ***Apply*** the evidence to solve a specific clinical case
 |
| **ATTITUDES**  | 1. ***Explain*** the importance of practicing EBM on clinical decision making in the future
 |
|  | 1. ***Maintain*** effective team work and knowledge sharing
 |
| **COMPETENCIES** | * 1. ***Formulate*** PICO questions based on a specific clinical case
 |
|  | * 1. ***Search*** appropriate sources to find most relevant evidence
 |
|  | * 1. ***Evaluate*** internal and external validity of the evidence
 |
|  | * 1. ***Apply*** the evidence to solve a clinical problem
 |
|  | * 1. ***İnterprete*** study results using statistical knowledge
 |
|  | * 1. ***Excellent*** team player by applying problem based learning
 |

**ASSESSMENT TABLE**

This table shows the question types and assessment methods/tools used in the training program.

|  |  |
| --- | --- |
| **Question Types (Pencil-Paper Tests)**  | **Proportion** **(*in Pencil-Paper Tests)***  |
| Multiple Choice Questions  | **10 %** |
| Extended Matching Questions  | **15 %** |
| Case solving and calculations | **25 %** |
| **Total**  | **50 %** |
| **Other Assessment Methods and Tools** | **Proportion** **(*in Pass/Fail Decision)*** |
| Performance and participation in discussions during the class | **50 %** |
| **Total** | **50 %** |
| **Pass/Fail Decision**  | **Proportion** **(*in Pass/Fail Decision)*** |
| Pencil-Paper Tests  | **50%** |
| Performance and participation in discussions during the class | **50%** |
| **Total** | **100%** |

**Week 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 09.00-10.30 | * Agenda of the day
* Learner expectations
* Pre-course knowledge assessment
* Identification of group and individual learning needs
 | * Warm-up
* Agenda of the day
* A review of PBL

**Case 1**: **Steps 1-5**(Evidence) | * Warm-up
* Agenda of the day

**Case 1**: **Step 7** | * Warm-up
* Agenda of the day

**Case 2**: **Step 7** | * Warm-up
* Agenda of the day

**Case 3**: **Step 7** |
| 10.30 -10.45 | Coffee break | Coffee break | Coffee break | Coffee break | Coffee break |
| 10.45 -11.30  | * Course goals and objectives
* Course programme
* Review of course materials
* Assessment methods and

attendance | **Case 1: Step 6** Independent Learning | **Case 1**: **Step 7 (cont.)** | **Case 2**: **Step 7 (cont.)** | **Case 3**: **Step 7 (cont.)** |
| 11.30 -12.30 | **Lecture**Definition and philosophy of evidence- based TFT/MEDicine | **Case 1: Step 6 (cont.)** Independent Learning | **Case 2**: **Steps 1-5**(Treatment: Randomized Controlled Trials) | **Case 3**: **Steps 1-5**(Harm: Case-Control Studies) | **Case 4**: **Steps 1-5**(Diagnosis: Diagnostic/methodological Studies) |
| 12.30 -13.30  | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| 13.30–13:45 | Warm-up | Warm-up | Warm-up | Warm-up | Warm-up |
| 13.45 -15.15  | **Lecture**A new approach to learning: Problem Based Learning (PBL) | **Case 1: Step 6 (cont.)** Independent Learning | **Case 2**: **Steps 6**Independent Learning | **Case 3**: **Steps 6**Independent Learning | **Case 4**: **Steps 6**Independent Learning |
| 15.15-15:30  | Coffee break | Coffee break | Coffee break | Coffee break | Coffee break |
| * 15.30-17.15
 | * **An example of PBL application**
* Step 1-Clarifying unknown words, statements and concepts
* Step 2-Defining the problem(s)
* Step 3- Analyzing the problem (Brainstorming)
* Step 4- Classifying
* Step 5- Formulating learning objectives
* Step 6- Self study
* Step 7- Reporting
 | **Case 1: Step 6 (cont.)**Independent Learning | **Case 2**: **Steps 6 (cont.)**Independent Learning | **Case 3**: **Steps 6 (cont.)**Independent Learning | **Case 4**: **Steps 6 (cont.)**Independent Learning |
| * 17.15-17.30
 | Daily participant feedbacks | Daily participant feedbacks | Daily participant feedbacks | Daily participant feedbacks | Daily participant feedbacks |

**Week 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 09.00-10.30  | * Warm-up
* Agenda of the day

**Case 4**: **Step 7** | * Warm-up
* Agenda of the day

**Case 5**: **Steps 7** | * Warm-up
* Agenda of the day

**Presentation of assignments** | * Warm-up
* Agenda of the day

**Presentation of assignments** | **Final examination** |
| 10.30 -10.45  | Coffee break | Coffee break | Coffee break | Coffee break | Coffee break |
| 10.45 -11.30  | **Case 4: Step 7(cont.)** | **Case 5**: **Step 7 (cont.)** | **Presentation of assignments** | **Presentation of assignments** | **Exam. answers and Final review** |
| 11.30 -12.30 | **Case 5**: **Steps 1-5**(Prognosis: Cohort Studies) | **Assignments** Searching a subject in Cochrane database of systematic reviews and meta-analyses | **Presentation of assignments** | **Presentation of assignments** |
| 12.30 -13.30  | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| 13.30–13:45 | Warm-up | Warm-up | Warm-up | Warm-up | **Course evaluation and closing** |
| 13.45 -15.15  | **Case 5: Step 6**Independent Learning | **Assignments**Searching a subject in Cochrane database of systematic reviews and meta-analyses (cont.) | **Presentation of assignments** | **Presentation of assignments** |
| 15.15-15:30  | Coffee break | Coffee break | Coffee break | Coffee break |
| * 15.30-17.15
 | **Case 5: Step 6(cont.)**Independent Learning | **Assignments**Searching a subject in Cochrane database of systematic reviews and meta-analyses (cont.) | **Presentation of assignments** | **Presentation of assignments** |
| * 17.15-17.30
 | Daily participant feedbacks | Daily participant feedbacks | Daily participant feedbacks | Daily participant feedbacks |

**INFECTIOUS DISEASES INTERNSHIP PROGRAM**

**INTRODUCTION TO THE PROGRAM**

**EDUCATION PERIOD:** Phase V;15 working days (Official holidays are included in the working day calculations)

**CAMPUS:** NEU Hospital 4th East Block, other services and Central Laboratory

**EDUCATION UNITS:**

**1. Hospital** IV East Bloc.4. Floor

**2. Hospital Central Laboratory:** Ground Floor

**3. Hospital classrooms**: (Will be announced at the beginning of the internship)

**COMPULSORY ATTENDANCE**

**1. Theoretical training:**

**a.** Participation in face-to-face training is mandatory. (\*)

b. Participation in distance education is mandatory (\*)

 1.Bed-side training (\*\*)

 2.Laboratory education (\*\*)

**EVALUATION:**

1. Attendance to the Lectures/Practices (10% impact)

2. Internship final exams (80% impact)

3. Participation in seminars (10% impact)

**FEEDBACK :**

Giving feedback at the end of the internship is mandatory.

ID’s are not recquired in feedback sessions

**OBJECTIVES :**

**OBJECTIVE:** Knowing the existing, re-emerging and emerging infectious diseases in countries, equipped with the necessary knowledge, skills and competence for the prevention, diagnosis, differential diagnosis, treatment and referral of infectious diseases starting from the primary care level; Approaching the infectious patient within the framework of ethical rules by using the knowledge, skills and competencies have acquired and his/her communication skills; To train physicians who have acquired the attitude and skills to follow the developments in this field throughout their lives, and to continuing learning through research and questioning.

**LEARNING OUTCOMES:**

**1**. Determines the relationship between infectious diseases and public health, examines the disease from a social perspective while evaluating the patient individually, show the risk factors

2. Has an idea about common and life-threatening diseases in society

3. Informs the public in terms of the etiology and epidemiology of these diseases

4. Explain the agents, transmission routes and etio-pathogenesis of infectious diseases

5. Defines and recognizes infectious diseases with systemic symptoms

6. Takes and evaluates detailed medical history from the patient or his relatives

7. Reveals the systemic findings of infectious diseases with physical examination, combines them with anamnesis and makes a diagnosis/pre-diagnosis

8. Makes differential diagnosis by using biochemical and radiological diagnostic aid methods, especially microbiological tests, and goes to definitive diagnosis.

9. Treats patients suitable for treatment in primary care, organizes their rehabilitation after treatment

10. Faithfully follows the principles of rational antibiotic use

11. Knows, monitors, and takes necessary precautions against common antibiotic resistance results and mechanisms in the community.

12. Applies the principles of protection from infectious diseases to the patient and society, encourages and informs the society about immunization.

13. Applies the principles of isolation on epidemics and life-threatening infections

14. Cooperates with other institutions, especially municipalities and health institutions, in the prevention of communicable diseases.

15. Cooperates with health authorities on notifiable diseases

16. Applies the legal regulations related to the subject to the society

17. Demonstrates social information exchange and sensitivity about the subject

1. **Table-1:WEEKLY SCHEDULE**

**WEEK 1:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HOURS** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| **09,00 - 0945** | **INTRODUCTION** | **BS** | **BS** | **BS** | **BS** |
| **10,00 – 10,45** | **BS** | **BS** | **BS** | **BS** |
| **11,00 – 11,45** | **L-1** | **K-3 Treatment principles of Inf.Dis.** | **T-6: Malaria** | **T-8: Upper respiratory tract infections (Acut otitis media, rhinosinusitis, tons illo-pharyngitis )** | **T-11: Rabies** |
| **LUNCH BREAK** |
| **14,00 – 14,45** | **T-1/T-2:Signs and symptoms of İnfectious diseases** | **T-4: Rational antibiotic use** | **T7: Acute infectious diarrhea** | **T-9: influenza, common cold** | **T-12: HIV ve AIDS** |
| **15,00 – 15,45** | **T-5: Central Nervous infections** | **T-10: Necrotizing fasciitis, ggas gangrene, osteomyelitis, septi arthritis** | **T-13: Urogenital infections: STD’s** |
| **16,00 – 16,45** | **ED-1: Evaluation of Day** | **ED-2: Evaluation of Day** | **ED-3: Evaluation of Day** | **ED-4: Evaluation of Day** | **ED-5: Evaluation of Day** |

**WEEK.2:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HOUR** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| **09,00 - 0945** | **National Day** | **BS** |  | **BS** | **BS** |
| **10,00 – 10,45** |
| **11,00 – 11,45** | **T-18 Decontamination, disinfecting, Antisepsis** | **S-1 Immunization principles** |
| **LUNCH BREAK** |
| **14,00 – 14,45** | **National Day** | **T-16 Pneumonia** | **T-17: Viral hemorrhagic fever** | **T-19: Tetanus** | **T-21: Viral hepatitis** |
| **15,00 – 15,45** | **T-20: Anthrax** |
| **16,00 – 16,45** | **ED-7: Evaluation of Day** | **ED-8: Evaluation of Day** | **ED-9: Evaluation of Day** | **ED-10: Evaluation of Day** |

**WEEK.3:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HOUR** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY**  |
| **09,00 - 0945** |  |  |  |  | **EXAM** |
| **10,00 – 10,45** |  |  |  |  |
| **11,00 – 11,45** | **T-14: Typhoid fever /salmonellosis** | **T15: Brucellosis** |  |  |
| **LUNCH BREAK** |
| **14,00 – 14,45** | **T-22Health-care related infections** | **T-23: Sepsis** | **T-25: Febrile neutropenia** | **SELF LEARNING** | **FEEDBACK OF ROUND** |
| **15,00 – 15,45** |
| **16,00 – 16,45** | **ED-11: Evaluation of Day** | **ED-12: Evaluation of Day** | **ED:13: Evaluation of Day** |

**TABLE 2:**

 **LIST OF LECTURES**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **TYPE OF ACTIVITY** | **NAME OF ACTIVITY** | **TERM** |
| 1 | K | Enfeksiyon hastalıklarında semptom ve bulgular | 1 hour |
| 2 | K | Rational antibiotic use | 1 hour |
| 3 | K | Treatment principles of Inf.Dis. | 1 hour |
| 4 | K | Akılcı antibiyotik kullanımı | 1 hour |
| 5 | K | Central Nervous infections | 1 hour |
| 6 | K | Malaria | 1 hour |
| 7 | K | Acute inferctious diarrhea | 2 hour |
| 8 | K | Upper respiratory tract infections (Acut otitis media, rhinosinusitis, tons illo-pharyngitis ) | 1 hour |
| 9 | K | influenza, common cold | 1 hour |
| 10 | K | Necrotizing fasciitis, ggas gangrene, osteomyelitis, septi arthritis | 1 hour |
| 11 | K | Rabies | 1 hour |
| 12 | K | HIV and AIDS Diseases | 1 hour |
| *13* | *K* | *Genito-urinary infections STD’s* | *1 hour* |
| 14 | K | Typhoid fever/salmonellosis | 1 hour |
| 15 | K | Brucellosis | 1 hour |
| 16 | K | Pneumonia | 2 hour |
| 17 | K | Viral hemmorrhagic fevers | 1 hour |
| 18 | K | Decontamination, disinfecting,Antisepsis | 1 hour |
| 19 | K | Tetanus | 1 hour |
| 20 | K | Anthrax and B anthracis infections | 1 hour |
| 21 | K | Viral hepatititis | 2 hour |
| 22 | K | Health-care realtted infections | 2 hour |
| 23 | K | Sepsis | 1 |
| 24 | Hasta başı eğitim / Olgu tartışması | Etiology and management of fever and Fever unknown origin | 1 hour |
| 25 | K | Febrile neutropenia | 2 hour |
| 26 | L-1 | Introduction to Microbiology labratory and its rules | 1 Hour |
| 27 | S-1 | Immunization principles | 1 Hour |
| 1-13 | GTR | DAILY EVALUATION | 13 hour |

**Table 3: Evaluation of courses**

**Total 40 hours**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **TYPE OF ACTIVITY** | **NAME OF ACTIVITY** | **TERM** | **METHODS OF EVALUATION** |
| 1 | T | Signs and symptoms of İnfectious diseases | 1 hour | Multiple choice and/or oral exam |
| 2 | T | Rational use of antibiotics | 1 hour | Multiple choice and/or oral exam |
| 3 | T | Treatment principles of infectious diseases | 1 hour | Multiple choice and/or oral exam |
| 4 | T | Rational use of antibiotics | 1 hour | Multiple choice and/or oral exam |
| 5 | T | Central nervous system infections | 1 hour | Multiple choice and/or oral exam |
| 6 | T | Malaria | 1 hour | Multiple choice and/or oral exam |
| 7 | T | Acute infectious diarrhea | 2 hour | Multiple choice and/or oral exam |
| 8 | T | Upper respiratory tract infections (Acut otitis media, rhinosinusitis, tons illo-pharyngitis ) | 1 hour | Multiple choice and/or oral exam |
| 9 | T | Influenza, Common cold | 1 hour | Multiple choice and/or oral exam |
| 10 | T | Necrotizing fasciitis, ggas gangrene, osteomyelitis, septi arthritis | 1 hour | Multiple choice and/or oral exam |
| 11 | T | Rabies | 1 hour | Multiple choice and/or oral exam |
| 12 | T | HIV and AIDS | 1 hour | Multiple choice and/or oral exam |
| *13* | T | *Genito-urinary infections STD’s* | *1 hour* | Multiple choice and/or oral exam |
| 14 | T | Typhoid fever/salmonellosis | 1 hour | Multiple choice and/or oral exam |
| 15 | T | Brucellosis | 1 hour | Multiple choice and/or oral exam |
| 16 | T | Pneumonia | 2 hour | Multiple choice and/or oral exam |
| 17 | T | Viral hemmorrhagic fevers | 1 hour | Multiple choice and/or oral exam |
| 18 | T | Decontamination, disinfecting,Antisepsis | 1 hour | Multiple choice and/or oral exam |
| 19 | T | Tetanus | 1 hour | Multiple choice and/or oral exam |
| 20 | T | Anthrax and B anthracis infections | 1 hour | Multiple choice and/or oral exam |
| 21 | T | Viral hepatititis | 2 hour | Multiple choice and/or oral exam |
| 22 | T | Health-care realtted infections | 2 hour | Multiple choice and/or oral exam |
| 23 | T | Sepsis | 1 | Multiple choice and/or oral exam |
| 24 | BS  | Etiology and management of fever and Fever unknown origin | 1 hour | Multiple choice and/or oral exam |
| 25 | T | Febrile neutropenia | 1 hour | Multiple choice and/or oral exam |
| 26 | L-1 | Introduction to Microbiology labratory and its rules | 1 Hour | Multiple choice and/or oral exam |
| 27 | S-1 | Immunization principles | 1 Hour | Multiple choice and/or oral exam |
| 1 | DE | DAILY EVALUATION | 13 hours | Oral |

ABBREVIATIONS:

T: Theoretical education, Lectures

HO: Bed-side training and case discussion

S: Seminar

**Neurology Clerkship Program**

**Week 1**

|  |  |  |
| --- | --- | --- |
| **Day / Hours** | **Subject** |  |
| **DAY 1** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit**  |  |
| **9:40-10:30** | **Extrapyramidal System Disorders**  |  |
| **10:40-11:30** | **Hypokinetic Movement Disorders**  |  |
| **11:40-12:30** | **Hyperkinetic Movement Disorders** |  |
| Lunch Time |  |  |  |  |  |
| **14:00-15:00** | **Extrapyramidal System Examination**  |  |
| **15:00-16:00** | **Extrapyramidal System Examination**  |  |
| **16:00-17:00** | **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 2** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
| **9:40-10:30** | **Neuroimmunology** |  |
| **10:40-11:30** |  **Multiple Sclerosis**  |  |
| **11:40-12:30** | **Other Demyelinating Disorders** |  |
| Lunch Time |  |  |  |  |  |
| **14:00-15:00** | **Cerebellar Examination**  |  |
| **15:00-16:00** | **Cerebellar Examination**  |  |
| **16:00-17:00** | **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 3** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
| **9:40-10:30** | **Cerebrovascular Diseases** |  |
| **10:40-11:30** |  **Cerebrovascular Diseases** |  |
| **11:40-12:30** |  **Cerebrovascular Diseases** |  |
| Lunch Time |  |  |  |  |  |
| **13:30-15:00** | **Sensorial Examination** |  |
|  | **Sensorial Examination** |  |
| **16:00-17:00** | **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 4** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
| **9:40-10:30** | **Peripheral Neuropathies** |  |
| **10:40-11:30** | **Peripheral Neuropathies**  |  |
| **11:40-12:30** | **Peripheral Neuropathies**  |  |
| Lunch Time  |  |  |  |  |  |
| **14:00-15:00** | **Motor system, DTR,pathological reflex examination**  |  |
| **15:00-16:00** | **Motor system, DTR,pathological reflex examination**  |  |
| **16:00-17:00** | **Clinic visit** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DAY 5** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit**  |  |
| **9:40-10:30** | **Cranial Nerve Disorders** |  |
| **10:40-11:30** | **Cranial Nerve Disorders** |  |
| **11:40-12:30** | **Cranial Nerve Disorders**  |  |
| Lunch Time |  |  |  |  |  |
| **13:30-15:00** | **Aphasia Examination** |  |
| **16:00-17:00** | **Clinic visit** |  |

**Week 2**

|  |  |  |
| --- | --- | --- |
| **Day / Hours** | **Subject** |  |
|  |  |  |  |  |  |
| **DAY 6** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
| **9:40-11:00** | **Motor Neuron Disorders**  |  |
| **11:10-12:30** | **CNS infections**  |  |
| Lunch Time |  |  |  |  |  |
| **14:00-15:00** |  **Cranial Nerve Examination**  |  |
| **15:00-16:00** | **Cranial Nerve Examination**  |  |
| **16:00-17:00** |  **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 7** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
| **9:40-10:30** |  **Muscle Disorders** |  |
| **10:40-11:30** |  **Muscle Disorders** |  |
| **11:40-12:30** | **Neuromuscular Junction Disorders** |  |
| Lunch Time |  |  |  |  |  |
| **13:30-15:00** |  **Diseases of Spinal Cord**  |  |
| **15:00-16:00** |  **Coma and Brain Death**  |  |
| **16:00-17:00** | **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 8** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
| **9:40-10:30** | **Epilepsy**  |  |
| **10:40-11:30** |  **Epilepsy**  |  |
| **11:40-12:30** | **Status Epilepticus**  |  |
|  |  |  |  |  |  |
| **14:00-15:00** |  **Diagnostic Modalitites in Neurology(Radiology,EEG-EMG,CSF,Lab** |  |
| **15:00-16:00** | **Diagnostic Modalitites in Neurology(Radiology,EEG-EMG,CSF,Lab** |  |
| **16:00-17:00** | **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 9** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
|  **9:40-10:30** | **Primary Headaches** |  |
| **10:40-11:30** |  **Secondary Headaches**  |  |
| **11:40-12:30** | **Case presentations with headache** |  |
| Lunch Time |  |  |  |  |  |
| **14:00-15:00** |  **Coma Examination**  |  |
| **16:00-17:00** | **Coma Examination**  |  |
| **16:00-17:00** | **Clinic visit** |  |
|  |  |  |  |  |  |
| **DAY 10** |  |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |
|  **9:40-10:30** | **Dementia** |  |
| **10:40-11:30** |  **Dementia** |  |
| **11:40-12:30** | **Dementia** |  |
| Lunch Time |  |  |  |  |  |
| **13:30-15:00** |  **Mental Status Examination**  |  |
| **16:00-17:00** | **Clinic visit** |  |

**Week 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day/ Hours** | **Subject** |  |  |
|  |  |  |  |  |
| **DAY 11** |  |  |  |  |
| **9:00-10:00** | **Clinic visit** |  |  |
| **10:00-11:00** | **Case discussion** |  |  |
| **11:00-12:00** | **Case discussion** |  |  |
| **Lunch Time** |  |  |  |  |
| **14:00-15:00** | **Case discussion** |  |  |
| **15:00-16:00** | **Case discussion** |  |  |
| **16:00-17:00** | **Clinic visit** |  |  |
|  |  |  |  |  |
| **DAY 12** |  |  |  |  |
| **9:00-10:00** | **Clinic visit** |  |  |
| **10:00-11:00** | **Genetic aspects of neurological diseases** |  |  |
| **11:00-12:00** | **Genetic aspects of neurological diseases** |  |  |
| **Lunch Time** |  |  |  |  |
| **14:00-15:00** | **Case discussion** |  |  |
| **15:00-16:00** | **Case discussion** |  |  |
| **16:00-17:00** | **Clinic visit** |  |  |
|  |  |  |  |  |
| **DAY 13** |  |  |  |  |
| **9:00-9:30** | **Clinic visit** |  |  |
| **9:30-10:30** | **Case discussion** |  |  |
| **10:30-12:30** | **Case discussion** |  |  |
| **Lunch Time** |  |  |  |  |
| **13:30-15:00** | **Lumbar Puncture** |  |  |
| **16:00-17:00** | **Clinic visit** |  |  |

**DAY 14**

|  |  |  |  |
| --- | --- | --- | --- |
| **10:00-12:00**  | **Written Exam**  |  |  |

**DAY 15**

|  |  |  |  |
| --- | --- | --- | --- |
| **10:00-12:00** **14:00-16:00** | **Oral Exam**  |  |  |

**NUCLEAR MEDICINE CLERKSHIP PROGRAM (1 week)**

|  |  |
| --- | --- |
| **CLERKSHIP** | **NUCLEAR MEDICINE** |
| **AIM** | ***To convey*** necessary knowledge on nuclear TFT/MEDicine imaging principles, nuclear physics, radiopharmacy, radionuclide therapy |
| **LEARNING OBJECTIVES** *At the end of this term, student should be able to:* |
| **KNOWLEDGE** |

|  |
| --- |
| 1. ***outline*** basic knowledge on nuclear TFT/MEDicine imaging methods |
| 2.***describe*** diagnostic imaging of thyroid gland |
| 3**. *describe*** radionuclide therapy and its application areas  |
| 4. ***describe*** harmfull effects of ionisan radiation and explain ways of protection |
|  |
|  |

 |
| **SKILLS** |

|  |
| --- |
| ***choose*** optimal nuclear TFT/MEDicine modality in most commonly encountered pathologies. |
|  |
|  |
|  |
|  |

 |

**ASSESSMENT TABLE**

This table shows question types and assessment methods/tools used in training program

|  |  |
| --- | --- |
| **Questions Types (Pencil-Paper Tests)** | **Proportion****(in Pencil-Paper Tests)** |
| **Multiple Choice Questions** | **90%** |
| **Key Features** | **10%** |
| **Total** | **100 %** |

**Week 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **09:00-09:50** | **Basic principles of Nuclear TFT/MEDicine-I****(Introduction&terms)** | **Nuclear TFT/MEDicine in Endocrinology-I** | **Nuclear TFT/MEDicine in Cardiovascular Disease-I** | **Nuclear Oncology –I****(diagnostic imaging)** | **Final Exam**  |
| **10:00-10:50** | **Basic principles of Nuclear TFT/MEDicine-II****(Radiopharmaceuticals)** | **Nuclear TFT/MEDicine in Endocrinology-II** | **Nuclear TFT/MEDicine in Cardiovascular Disease-II** | **Nuclear Oncology –II****(Radionuclide therapy)** |
| **11:00-11:50** | **Basic principles of Nuclear TFT/MEDicine-III****(Radiation detection equipments and radionuclide imaging)** | **Nuclear TFT/MEDicine in Uronephrology** | **Pulmonary Imaging** | **Nuclear TFT/MEDicine in the Cerebrovascular Diseases** |
| **12:00-12:50** | **Radiobiology** | **Clinical cases** | **Nuclear TFT/MEDicine in the GIS and Reticuloendothelial System Disorders** | **Independent Learning**  |  |
| **13:00-14:00** | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| **14:00-14:50** | **Nuclear TFT/MEDicine in the disorders of bone and joints** | **Independent Learning**  | **Nuclear TFT/MEDicine in pediatric oncology-I** | **Independent Learning**  | **Program Evaluation Session**Review of the Exam Questions,Evaluation of the Program |
| **15:00-15:50** | **Nuclear TFT/MEDicine Imaging in Infection**  | **Radiation Oncology Lecture** | **Nuclear TFT/MEDicine in pediatric oncology-II** |
| **16:00-16:50** | **Clinical cases** | **Clinical cases** |

**OPHTHALMOLOGY CLERKSHIP PROGRAM**

(3weeks)

|  |  |
| --- | --- |
| **CLERKSHIP** | **OPHTHALMOLOGY***Aim of this clerkship is to*; |
| **AIM** | 1.***Transfer*** necessary knowledge on symptomatology, clinical features and pathology of ophthalmic disorders, 2. **Equip**students withknowledge, skills and attitudes required to manage clinical conditions related to ophthalmology at primary care setting |
| **LEARNING OBJECTIVES***At the end of this term, student should be able to:* |
| **KNOWLEDGE** | 1. **Explain** embryology andanatomy of the eye, physiology of vision.
2. **Describe** ocular emergencies.
3. **Describe** refractive errors and their treatment.
4. **Describe** the disorders of orbit and eye lids.
5. **Describe** strabismus and amblyopia
6. **Explain** anterior and posterior segment pathologies
 |
| **SKILLS** | 1. **Make** physical examination of eyelids, orbit and bulbus oculi
2. **Interpret**results of otorefractometry, tonometry, OCT and perimetry
3. **Perform** tests of Hirschberg, red reflex, pinhole and cover-uncover.
 |
| **COMPETENCIES** | 10. M**anage** urgent injuries of eyes. |

**DAILY PROGRAM**

**Week 1**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day 1** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

 | **Day 2** | **Day 3** | **Day 4** | **Day 5** |
| **9:00-10:00** | **Lecture 1**Embryology, anatomy and physiology of the eye  | **Lecture 3**Refractive errors and treatment  | **Lecture 5**Diseases of eyelid and orbit  | **Surgical Experience**(Eye operation room) | **Lecture 7**Strabismus and amblyopia |
| **10:00-12:00**  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | **Surgical Experience**(Eye operation room) | **Lecture** Genetics in Urology 2 |
| **12:00-13:30**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |
| **13:30-15:00**  | **Lecture 2**Ophthalmic examination  | **Lecture 4**Emergencies in ophthalmology  | **Lecture 6**Lachrymal drainage system diseases  | Patient bed side visit | **Lecture 8** Glaucoma  |
| **15:00-16:30**  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  |

**Week 2**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day 6** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

 | **Day 7** | **Day 8** | **Day 9** | **Day 10** |
| **9:00-10:00** | **Lecture 9**Diseases of Conjunctiva | **Lecture 11**Diseases of Episclera and Sclera | **Lecture 12**Diseases of Lens | **Surgical Experience**(Eye operation room) | **Lecture 13**Dry eye syndrome |
| **10:00-12:00**  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | **Surgical Experience**(Eye operation room) | Clinical Experience(Outpatient)  |
| **12:00-13:30**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |
| **13:30-15:00**  | **Lecture 10**Diseases of Cornea | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Patient bed side visit | Clinical Experience(Outpatient)  |
| **15:00-17:00**  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient)  |

**Week 3**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day 11** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

 | **Day 12** | **Day 13** | **Day 14** | **Day 15** |
| **9:30-11:00** | **Lecture 14**Acquired macular diseases | **Lecture 16**Retinal detachments  | **Oral Examination** | **Surgical Experience**(Eye operation room) | **Multiple Choice Exam** |
| **11:00-12:00**  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient/Surgery)  | **Oral Examination** | **Surgical Experience**(Eye operation room) |
| **12:00-13:30**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch** |
| **13:30-15:00**  | **Lecture 15**Hereditary and vascular diseases of retina  | **Lecture 17**Uveitis | **Oral Examination** | Independent Learning | **Program Evaluation Session**Review of the Exam Questions,Evaluation of the Program |
| **15:00-17:00**  | Clinical Experience(Outpatient)  | Clinical Experience(Outpatient) | **Oral Examination** | Independent Learning |

|  |  |
| --- | --- |
| **Questions Types**  | **Proportion** |
| Multiple Choice Questions | 70% |
| Oral Exam | 30% |
| **Total** | **100 %** |
| **Pass/Fail Decision** | **Proportion****(*in Pass/Fail Decision)*** |
| **Total** | **100 %** |
|  |  |

***ASSESSMENT TABLE***

This table shows question types and assessment methods/tools used in training program.

# ORTHOPEDICS AND TRAUMATOLOGY TRAINING PROGRAMME

**(3 weeks)**

|  |  |
| --- | --- |
| **CLERKSHIP** | **ORTHOPEDICS and TRAUMATOLOGY***Aim of this clerkship is to*; |
| **AIM** | 1. ***convey*** necessary knowledge on symptoms of congenital, acquired or traumaticclinicalconditionsrelatedtomusculoskeletalsystem,
2. ***equip*** students ***with*** knowledge, skills and attitudes required to detect clinical singsinclinicalconditionsrelatedtomusculoskeletalsystem,
3. ***equip*** students ***with*** knowledge, skills and attitudes required to employ diagnostic tools and treatment modalities in clinical conditions related to musculoskeletalsystem.
 |
| **LEARNING OBJECTIVES***At the end of this term, student should be able to:* |
| **KNOWLEDGE** | 1. ***explain*** anatomy and physiology of musculoskeletal system, besides pathology of clinical conditions related to musculoskeletal system |
| 2. ***describe*** diagnosis of traumatic, skeletal and soft tissue pathologies, and their management in emergency states |
| 3. ***describe*** congenital pediatric orthopedic problems and general treatment strategies |
| 4. ***describe*** physiopathological causes of degenerative disorders and optimal managements |
| 5. ***describe*** degenerative spinal disorders, spine deformities and traumatic spine disorders |
| 6. ***explain*** diagnostic and therapeutic modalities in sports injury |
| 7. ***describe*** classification, musculoskeletaltumors | diagnosis | and | treatment | modalities | in |
| **SKILLS** | 8. ***perform*** orthopedic examination of musculoskeletal system, |
| 9. ***perform*** first aid, wound care, bandaging, and management of temporaryfracture stabilization, in case of fracture |
| **ATTITUDES** | 10. ***be aware of*** importance of differentiation of musculoskeletal diseases and fractures, |
| 11. ***make*** guidance to patient about treatment, |
| 12. ***have*** good communication with patient and accompanying persons or care givers |

**ASSESSMENT TABLE**

This table shows question types and assessment methods/tools used in training program.

|  |  |
| --- | --- |
| **Questions Types (Pencil-Paper Tests)** | **Proportion****(*in Pencil-Paper Tests)*** |
| Multiple Choice Questions | 90% |
| Extended Matching Questions | 10% |
| **Total** | **100 %** |
| **Other Assessment Methods and Tools** | **Proportion****(*in Other Assessments Methods and Tools)*** |
| Oral Exam (OE) | 50% |
| Mini Clinical Evaluation Exercise (Mini-CEX) | 50% |
| **Total** | **100 %** |
| **Pass/Fail Decision** | **Proportion****(*in Pass/Fail Decision)*** |
| Pencil-Paper Tests | 50% |
| Other Assessments Methods and Tools | 50% |
| **Total** | **100 %** |

###### Week 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 8:00-9:00 | Introductory Session Introduction to Orthopedics and Traumatology | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round |
| 9:00-12:00 | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) |
| 12:00-13:00 | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| 13:00-16:00 | **Lecture**Basic Principles ofFractures and Fracture Healing Osteomyelitis and Septic Arthritis | **Lecture**Dislocations and Fracturesof the Upper Extremity | **Lecture**Sports Medicine: Upper Extremity Injuries and Arthroscopy  | **Lecture**Paediatric Fractures | **Lecture**Spinal Trauma and Fractures |
| 16:00-17:00 | Clinical Skills Learning (Orthopaedic Patient Evaluation) | Clinical Experience (Outpatient/ Surgical) | Clinical Skills Learning (Examination of Upper Extremity) | Clinical Experience (Outpatient/ Surgical) | Clinical Skills Training (Cast Application) |
| 17.00-18.00 | **Independent Learning** | **Independent Learning** | **Independent Learning** | **Independent Learning** | **Independent Learning** |

###### Week 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 8:00-9:00 | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) or Ward Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round |
| 9:00-12:00 | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) |
| 12:00-13:00 | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| 13:00-16:00 | **Lecture**Dislocations and Fractures of the Lower Extremity | **Lecture** Sports Medicine: LowerExtremity Injuries | **Lecture** Osteoarthritisand Arthroplasty, Osteoporosis and Osteoporotic Fractures | **Lecture**Degenerative and Inflammatory Diseasesof the Spine | **Lecture**Developmental Dysplasia of the Hip |
| 16:00-17:00 | Clinical Skills Training (Examination of the Lower Extremity) | Clinical Skills Training (Wound Management) | Clinical Experience (Outpatient/ Surgical) | Clinical Skills Training (Examination of Spine) | Clinical Experience (Outpatient/ Surgical) |
| 17.00-18.00 | **Independent Learning** | **Independent Learning** | **Independent Learning** | **Independent Learning** | **Independent Learning** |

###### Week 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 8:00-9:00 | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | Case Presentation (Student) orWard Round or Preop-X Ray Round | **Assessment Session** |
| 9:00-12:00 | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) |
| 12:00-13:00 | **Lunch** | **Lunch** | **Lunch** | **Lunch** | **Lunch** |
| 13:00-16:00 | **Lecture**Congenital Anomalies of the Lower Extremity | **Lecture**Fracture and Dislocation Complications,Orthopaedic Emergencies | **Lecture**Benign and Malignant Bone Tumors | **Lecture**Benign and Malignant Soft Tissue Tumors |  |
| 16:00-17:00 | Clinical Skills Training (Evaluation of X-ray in Orthopaedics) | Clinical Experience (Outpatient/ Surgical) | Clinical Experience (Outpatient/ Surgical) | **Independent Learning** |

**OTORHINOLARYNGOLOGY CLERKSHIP PROGRAM**

**(3 weeks)**

|  |  |
| --- | --- |
| **CLERKSHIP** | **OTORHINOLARYNGOLOGY***Aim of this clerkship is to;* |
| **AIMS** | 1. ***convey necessary knowledge*** on historical development of otorhinolaryngology, current and future applications of diagnostic and treatment methods, 2. ***convey necessary knowledge*** on clinical conditions related to otorhinolaryngology (*head and neck oncology, rhinology, laryngology, otology, facial plastic and reconstructive surgery, voice and speech disorders, neuro-otology, audiology and hearing sciences, vestibular system, congenital and genetic diseases, head and neck cancers, allergic and immunologic diseases*), 3. ***equip students with knowledge***, skills and attitudes required to manage clinical conditions related to otorhinolaryngology at primary care setting |
| **LEARNING OBJECTIVES***At the end of this programme, student should be able to:* |
| 1. ***describe*** external, middle and inner ear diseases |
| 2. ***explain*** tinnitus, hearing loss and balance problems |
| 3. explain basics of inner and external implant application and purpose |
| 4. ***distinguish*** between benign and malignant tumors at basic level in oropharyngeal diseases |
| 5. ***distinguish*** between benign and malignant tumors at basic level in nasopharyngeal diseases |
| 6. ***describe*** diagnosis and TFT/MEDical treatment of paranasal sinus diseases |
| 7. ***explain*** interventions otorhinolaryngological emergencies |
| 8. ***describe*** diseases related to adenoid and tonsillar tissue |
| 9. ***describe*** diagnosis and treatment of salivary gland diseases |
| 10. explain assessment of laryngeal diseases at basic level |
| 11. distinguish between benign and malign laryngeal diseases |
| 12. ***explain*** basics of temporomandibular joint diseases |
| 13. ***explain*** basics of maxillofacial trauma sandor cognatic surgery |
| 14. ***outline*** basics of genetic disorders related to otorhinolaryngology |
| 15. describe interpretation of audiological and early screening tests at basic level |
| 16. describe acoustic and psychoacoustic assessments |
| 17. ***outline*** diseases related to smelling and tasting |
| 18. ***describe*** stomatological diseases |
| 19. ***explain*** basics of conventional hearing devices and their indications for use |
| 20. ***describe*** basic and TFT/MEDical treatment of laryngopharyngeal reflux |
| 21. describe sleep apnea and snoring problem and surgical treatment of those diseases |
| 22. describe swallowing disorders |
| 23. tell surgical techniques of incision in tracheostomy, tracheotomy, coniotomy |
| 24. describe voice and speech disorders and treatments of those diseases |
| 25. tell basics of head-neck tumors and skull base diseases |
| **SKILLS** |  |  |
| 26. make rhino-laryngological examination27. use laryngoscope and otoscope |  |
| 28. design TFT/MEDical treatments in ear, nose and throat infections |  |
| **COMPETENCIES** |  |  |
| 29.1. do diagnosis of ear, nose and throat  diseases, 29.2. transfer patient to specialized center upon indication30.1. prepare nasal packages, 30.2. ***remove*** foreign body from ear and nose in emergency situations |  |

**ASSESSMENT TABLE**

|  |  |
| --- | --- |
| This table shows question types and assessment methods/tools used in trainingprogram. **Questions Types (Pencil-Paper Tests)** | **Proportion****(in Pencil-PaperTests)** |
| Multiple Choice Questions | 25%  |
|  |  |
|  |  |
| Short Response Essay Questions | 75%  |
| **Total** | **100 %** |
| **Other Assessment Methods and Tools** | **Proportion** |
| Oral Exam | 100%  |
| **Total** | **100%** |
| **Pass/Fail Decision** | **Proportion****(*in Pass/Fail Decision)*** |
| Pencil-Paper Tests | 50%  |
| Other Assessments Methods and Tools  | 50%  |
| **Total** | **100 %** |

|  |  |
| --- | --- |
| **Date & hour**  | **SUBJECT** |
| **1st WEEK** |  |
| **1st day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: ENT Clinics ORL-HNS examination steps |
| 10:00-11:00\* | Practice: Evaluation of oropharyngeal anatomical structures  |
| 11:00- 12:30 | Pharyngeal anatomy, physiology and diseases |
| 13:30- 14:30 | Facial plastic approaches in ENT |
| 14:30- 15:30 | Obstructive sleep apnea |
| 16:30- 17:30 | Patient bed side visit |
| **2nd day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Evaluation of a patient with nasal ob. |
| 10:00-11:00\* | Practice:Evaluation of a patient with sore thr. |
| 11:00- 12:30 | Facial nerve diseases |
| 13:30- 14:30 | Emergency in ENT clinics |
| 14:30- 15:30 | Emergency in ENT clinics |
| 16:30- 17:30 | Patient bed side visit |
| **3rd day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Eval. of a patient with hearing loss. |
| 10:00-11:00\* | Practice: Eval. of a patient with ear discharge. |
| 11:00- 12:30 | Oral cavity diseases |
| 13:30- 14:30 | Clinical anatomy of temporal bone |
| 14:30- 15:30 | Hearing physiology |
| 16:30- 17:30 | Patient bed side visit |
| **4th day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Evaluation of the patient with instruments |
| 10:00-11:00\* | Practice: Evaluation of the patient with instruments |
| 11:00- 12:30 | Nasopharyngeal neoplasms |
| 13:30- 14:30 | Clinical anatomy of temporal bone |
| 14:30- 15:30 | Hearing physiology |
| 16:30- 17:30 | Patient bed side visit |
| **5th day**  |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00  | Laryngeal anatomy & physiology |
| 10:00-11:00 | Laryngeal benign diseases |
| 11:00- 12:30\* | Practice of physical examination |
| 13:30- 14:30 | Neck anatomy |
| 14:30- 15:30 | Practice: Evaluat. of a patient with facial paralysis |
| 16:30- 17:30 | Patient bed side visit |
| **2nd WEEK** |  |
| **1st day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Evaluation of a patient with tinnitus. |
| 10:00-11:00\* | Practice: Evaluation of a patient with neck mass. |
| 11:00- 12:30 | Vestibular system diseases |
| 13:30- 14:30 | Congenital Neck masses-1 |
| 14:30- 15:30 | Congenital Neck masses-2 |
| 16:30- 17:30 | Patient bed side visit |
| **2nd day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Evaluation of a patient with vertigo. |
| 10:00-11:00\* | Practice: Evaluation of a patient with vertigo. |
| 11:00- 12:30 | Maxillofacial trauma |
| 13:30- 14:30 | Tracheotomy |
| 14:30- 15:30 | Practice: Evaluation of a post operative patient. |
| 16:30- 17:30 | Patient bed side visit |
| **3rd day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice:Evaluation of a patient with head.ac. |
| 10:00-12:00\* | Practice:Evaluation of a patient with rhinits |
| 13:30- 14:30 | Upper airway tract obstructions |
| 14:30- 15:30 | Upper airway tract infections |
| 16:30- 17:30 | Patient bed side visit |
| **4th day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Eval.of a patient with head&neck tr. |
| 10:00-11:00\* | Practice: Eval.of a patient with laryngeal dis. |
| 11:00- 12:30 | Clinical anatomy & physiology of nose &paranasal sinuses  |
| 13:30- 14:30 | Salivary gland diseases-1  |
| 14:30- 15:30 | Salivary gland diseases-2 |
| 16:30- 17:30 | Patient bed side visit |
| **5th day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Vocal cord paralysis |
| 10:00-11:00\* | Laryngeal malign diseases |
| 11:00- 12:30\* | Practice: Eval.of a postoperative patient |
| 13:30- 14:30 | Evaluation of Hearing |
| 14:30- 15:30 | Practice:  |
| 16:30- 17:30 | Patient bed side visit |
| **3rd WEEK** |  |
| **1st day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Otitis TFT/MEDia-I |
| 10:00-11:00\* | Otitis TFT/MEDia – II & its complications |
| 11:00- 12:30\* | Practice: ENT in Operation room  |
| 13:30- 14:30 | Practice: ENT in Operation room  |
| 14:30- 15:30 | Practice: Evaluation of a patient with facial paralysis |
| 16:30- 17:30 | Patient bed side visit |
| **2nd day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-10:00 \* | Practice: Eval.of a patient’s laryngeal structures. |
| 11:00- 12:30\* | Rhinitis |
| 11:00- 12:30\* | Epistaxis |
| 13:30-15:30 | Practice: Radiology in ENT |
| 16:30- 17:30 | Patient bed side visit |
| **3rd day** |  |
| 08:30- 09:00 | Patient bed side visit |
| 09:00-11:00 \* | Practice in ENT Clinic |
| 11:00- 12:30\* | Outer ear diseases |
| 13:30- 15:00 | Auditory system diseases |
| 16:30- 17:30 | Patient bed side visit |
| **4th day** |  |
| 09:00-10:30 | Written examination |
| **5th day** |  |
| 10:00-12:30 | Oral examination |

**PSYCHIATRY CLERKSHIP PROGRAM
(2 weeks)**

|  |  |
| --- | --- |
| **CLERKSHIP**  | **PSYCHIATRY***Aim of this clerkship is to*; |
| **AIM** | 1. ***convey*** necessary knowledge on psychiatric disorders, diagnosis and differential diagnosis,2. ***equip*** students ***with*** knowledge, skills and attitudes required to start treatment of diseases,3. ***equip*** students ***with*** knowledge, skills and attitudes required to perform follow- up in primary health care services,4. ***equip*** students ***with*** knowledge, skills and attitudes required to inform patient and their relatives about disorder, |
| **LEARNING OBJECTIVES***At the end of this term, student should be able to:* |  |
| **KNOWLEDGE** | 1. ***describe*** organic, physiological and psychological causes of depression, anxiety2. ***describe*** organic, physiological and psychological factors related with bipolar disorder, phobias, substance use disorders, psychosomatic disorders,3. ***describe*** personality disorders |
| **SKILLS** | 4.1. ***assess*** mental status,4.2. ***take*** psychiatric history5. ***make*** psychiatric examination |
| **ATTITUDES** | 6. ***make*** neutral, extra-judicial and indiscriminate approaches to patient*7.1.****value*** privacy of patients,7.2***.give*** patients confidence8. ***maintain*** empathy and effective communication with patient and accompanying persons or care givers |
| **COMPETENCIES** | 9.1. ***distinguish*** symptoms and signs of psychiatric conditions,9.2. ***arrange*** appropriate order for laboratory tests and consultations9.3. ***diagnose*** psychiatric conditions,9.4. ***do*** preliminary interventions,9.5. ***make*** stabilization of psychiatric emergency cases in emergencyconditions like suicide, conversion disorder, manic episode, substance-related emergencies9.6. ***arrange*** appropriate initial treatment,9.7. ***inform*** patients and care givers on personality disorders9.8. ***schedule*** follow-up process*10.* ***handle*** self protection from a violent patient |

**ASSESSMENT TABLE**This table shows question types and assessment methods/tools used in training program.

|  |  |
| --- | --- |
| **Questions Types (Pencil-Paper Tests)**  | **Proportion(*in Pencil-Paper Tests)*** |
| Multiple Choice Questions  | 50% |
| **Other Assessment Methods and Tools**  |  |
| Evaluation of Student’s Seminar (With Checklist)  | 50% |
| **Total**  | **100%** |
| **Pass/Fail Decision**  | **Proportion(*in Pass/Fail Decision)*** |
| Pencil-Paper Tests  | 50% |
| Other Assessments Methods and Tools  | 50% |
| **Total**  | **100 %** |

**Week 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday**  | **Tuesday**  | **Wednesday**  | **Thursday**  | **Friday** |
| **09:00-11:00** | **Lecture** Signs and Symptoms in Psychiatry | **Lecture** Introduction to Psychiatry | **Lecture** Mood Disorders  | **Lecture** Personality Disorders | **Lecture** Anxiety Disorders  |
| **11:00-12:00** | **Lecture** Classification in Psychiatry | **Lecture** The Doctor-Patient Relationship and Interviewing Techniques | **Lecture** Schizophrenia Spectrum and Other Psychotic Disorders | **Lecture** Psychosomatic and dissociative disorders  | **Lecture** Anxiety Disorders  |
| **12:00-13:00**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch** |
| **13:00-14:30** | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) |
| **14:45-16:15** | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) |
| **16:30-17:30**  | **Independent Learning**  | **Independent Learning**  | **Independent Learning**  | **Independent Learning**  | **Independent Learning** |

**Week 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday**  | **Tuesday**  | **Wednesday**  | **Thursday**  | **Friday** |
| **09:00-11:00** | **Lecture** Substance Use and Addictive Disorders | **Lecture** Treatment in Psychiatry(Biological Therapies and Psychoterapies) | **Lecture** Obsessive-Compulsive and Related Disorders  | **Lecture** Neurocognitive Disorders | **Lecture** Trauma and Stressor Related Disorders  |
| **11:00-12:00** | **Lecture** Normal Sleep and Sleep-Wake Disorders  | **Lecture** Treatment in Psychiatry(Biological Therapies and Psychoterapies) | **Lecture** Normal Sexuality and Sexual Dysfunction  | **Lecture** Feeding and Eating Disorders  | **Lecture** Emergency Psychiatry  |
| **12:00-13:00**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch** |
| **13:00-14:30** | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) |
| **14:45-16:15** | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) | Clinical experience(Outpatient) |
| **16:30-17:30**  | **Independent Learning**  | **Independent Learning**  | **Independent Learning**  | **Independent Learning**  | **Independent Learning** |

**RADIATION ONCOLOGY**

General information about this course:This course’s lectures in the classroom, each of which lasts 2 hours with 15-minute break, are held once a week throughout the second semester of the 5th grade in the form of presentations supporting interactive participation**.**

|  |  |
| --- | --- |
| **THEORETICAL COURSES** | **RADIATION ONCOLOGY***Aim of this course is to*; |
| **AIM** | 1. give a holistic approach by understanding oncological concepts and basic information
2. teach general approach and algorithms in oncologic diagnosis and treatment,
3. make the students aware of the indications for radiotherapy in the treatment of oncological patients
4. teach how to recognize the side effects and complications associated with radiation therapy and apply coping methods and supportive therapies
5. give preventive TFT/MEDicine awareness in order to prevent common cancers in the community
6. teach them using evidence-based information when practicing
7. convey respecting human and professional values with ethical rules
8. equip with the ability to use the country resources in the most scientific and rational way in the field of health
9. train investigator and interrogator physicians who constantly renew and develop themselves
 |
| **LEARNING OBJECTIVES***At the end of this term, student should be able to:* |
| **KNOWLEDGE** | 1. define symptoms, findings and treatments of oncological diseases
2. know how and why the most frequent cancers occur in their existing community
3. list cancer screening programs
4. list indications of radiotherapy for curative or palliative purposes for different kind of tumors
5. describe the effects of radiation on tumor tissue and normal tissues
6. define early and late side effects of radiotherapy and know to treat them
7. list the precautions in order to prevent common cancers in the community
 |
| **SKILLS** | 1. access and manage information about oncological diseases by using information and health technology
2. conduct oncological diagnosis, treatment and follow-up processes based on evidence, evaluating relevant evidence using scientific principles, methods and skills
 |
| **ATTITUDES** | 1. adopting the importance and necessity of multidisciplinary approach in oncologic diagnosis, treatment and follow-up, being open to decision-making and working together with the team
2. consider patient rights, health and safety, adopt the principle of confidentiality of patient information
3. empathy for patients and their relatives, behave compassionate, honest and trustworthy
4. understand the importance of life-long self-development and increasing knowledge
 |
| **COMPETENCIES** | 1. learn how and why cancers occur frequently in the community and to play a preventive role by educating society on this issue
2. communicate effectively with the patient and his / her relatives in the oncological diagnosis and treatment process, to inform them in an adequate and appropriate way
3. distinguish symptoms and signs of oncological diseases
4. differantiate early and late side effects of radiotherapy
5. be able to use the knowledge to develop problem-solving skills
 |

**Programme ( each week, on Tuesday, 2 hours with 15 minute break )**

|  |
| --- |
| Oncological concepts and approach to the oncological patients |
| Radiobiology |
| Diagnosis in head and neck cancers |
| Treatment in head and neck cancers  |
| Brain tumors |
| Gynecological cancers  |
| Diagnosis and staging in breast cancer  |
| Treatment in breast cancer  |
| Diagnosis and staging in lung cancer  |
| Treatment in lung cancer  |
| Upper gastrointestinal cancers |
| Colorectal cancers |
| Prostate cancer |
| Bladder cancer and testicular cancer  |
| Palliative radiotherapy |

**ASSESSMENT TABLE**

This table shows question types and assessment methods/tools used in Training Program.

|  |  |
| --- | --- |
| **Questions Types (Pencil-Paper Tests)**  | **Proportion****(in Pencil-Paper Tests)** |
| Multiple Choice Questions  | 90% |
| Extended Matching Questions  | 5% |
| Space filling questions | 5% |
| **Total** | **100%** |
| **Other Assessment Methods and Tools**  | **Proportion****(*in Pass/Fail Decision)*** |
| Attendance at the lessons | 5% |
| Interactive participation in the lessons | 5% |
| **Total** | **10%** |
| **Pass/Fail Decision**  | **Proportion****(*in Pass/Fail Decision)*** |
| Pencil-Paper Tests  | 90% |
| Other Assessments Methods and Tools  | 10% |
| **Total** | **100%** |

**UROLOGY CLERKSHIP PROGRAM**

(3weeks)

|  |  |
| --- | --- |
| . **CLERKSHIP** | **UROLOGY***Aim of this clerkship is to*; |
| **AIM** | 1.***convey*** necessary knowledge on symptomatology, clinical features and pathology of urinary and genital system disorders, 2. ***equip*** students ***with*** knowledge, skills and attitudes required to manage clinical conditions related tour ology at primary care setting |
| **LEARNING OBJECTIVES***At the end of this term, student should be able to:* |
| **KNOWLEDGE** | 1. **explain** mechanisms for urine formation and renal hemodynamics.
2. **describe** urgent urological disorders
3. **describe** disorders of kidney, ureter and bladder
4. **describe** genital system disorders of male
5. **describe** male sexual and reproductive system disorders
6. **explain** underlying reasons and pathologies of female incontinence
7. ***evaluate*** urinary system pathologies
 |
| **SKILLS** | 1. **make** physical examination of male urogenital system, female urinary system and female continence
2. ***interpret*** results of laboratory and radiological examinations related to urologic disorders
3. **perform** attachment of urethral catheter for male and female
 |
| **COMPETENCIES** | 11. **manage** urgent urological and urogenital diseases |

**ASSESSMENT TABLE**

This table shows question types and assessment methods/tools used in training program.

|  |  |
| --- | --- |
| **Questions Types (Pencil-Paper Tests)** | **Proportion****(in Pencil-Paper Tests)** |
| Multiple Choice Questions | 70% |
| Objective Structured Clinical Examination (OSCE) | 20% |
| Extended Matching Questions | 10% |
| **Total** | **100 %** |
| **Pass/Fail Decision** | **Proportion****(*in Pass/Fail Decision)*** |
| **Total** | **100 %** |

**Week 1**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

 | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **9:30-11:00** | **Introductory Session** Introduction to Urology  | **Lecture** Urinary Obstruction | **Lecture** Urothelial Tumors | **Lecture** Kidney tumors | **Lecture** Genetics in Urology 1 |
| **11:00-12:00**  | Clinical Experience(Outpatient/Surgery)  | Clinical Experience(Outpatient/Surgery)  | Clinical Experience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  | **Lecture** Genetics in Urology 2 |
| **12:00-13:30**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |
| **13:30-15:00**  | **Lecture** Genital system non-spesicific infections | **Lecture** Physical exam and symptomatology in urology | **Lecture** Benign Prostatic Hyperplasia –BPH | **Lecture** Miction Physiology and Neurourology | **Lecture** Urinary Stone Disease  |
| **15:00-17:00**  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  |

**Week 2**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

 | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **9:30-11:00** | **Lecture** Urinary Stone Disease 2 | **Lecture** Sexually transmitted diseases | **Lecture** Vesicouretheral reflux (VUR) | **Lecture** Genitourinary trauma | **Lecture** Erectile dysfunction |
| **11:00-12:00**  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  |
| **12:00-13:30**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |
| **13:30-15:00**  | **Lecture** Testicular tumors | **Lecture** Intrascrotal diseases | **Lecture** Prostat cancer | **Lecture** Urologic Emergency | **Lecture** Uro-genital System Anomalies |
| **15:00-17:00**  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  | ClinicalExperience(Outpatient)  |

**Week 3**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |

 | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **9:30-11:00** | **Lecture** Urinary Tract Infections | **Lecture** Female Urology and Incontinence | **Lecture** Urosepsis | Clinical Experience (Outpatient/Surgery) Case study |  **Exam** |
| **11:00-12:00**  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  | ClinicalExperience(Outpatient/Surgery)  |
| **12:00-13:30**  | **Lunch**  | **Lunch**  | **Lunch**  | **Lunch**  |  |
| **13:30-15:00**  | **Lecture** Urological imaging methods | **Lecture** Male infertility | ClinicalExperienceVideo presentation | **Independent Learning**  | **Program Evaluation Session**Review of the Exam Questions,Evaluation of the Program |
| **15:00-17:00**  | ClinicalExperience(Outpatient)  | ClinicalExperienceVideo presentation | ClinicalExperienceVideo presentation | **Independent Learning**  |