

**T.C.**

**ISTANBUL MEDIPOL UNIVERSITY**

**INTERNATIONAL SCHOOL OF MEDICINE**



**INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY**

**CLERKSHIP** **GUIDE**

**2021-2022**

**INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY CLERKSHIP**

**CLERKSHIP DESCRIPTION**

The clerkship covers the Infectious Diseases and the symptoms associated with these diseases, which are common in our country and the world, that a medical school graduate must know, diagnose, treat, monitor, apply preventive measures or refer.

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| **Education Period** | Year V |
| **Clerkship Duration** | 4 weeks |
| **Training Place** | Medipol Mega University Hospital |
| **Instrructors** | * Prof. Dr. Mesut YILMAZ * Prof. Dr. Bahadır CEYLAN * Assis. Prof. Dr. Meyha ŞAHİN * Assis. Prof. Dr. Selda AYDIN * Assis. Prof. Dr. Filiz YARIMÇAN |
| **The Head Instructor** | * Prof. Dr. Mesut YILMAZ |

**THE AIM OF INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY CLERKSHIP**

With the competencies to be gained during this clerkship, a primary care physician can successfully diagnose, treat and prevent community-acquired infectious diseases, which is an important problem in our country. Moreover, the primary care physician will be able to pre-diagnose infections that cannot be managed in primary care and carry out referral procedures.

**Learning Methods:**

* Lecture (Online/Face to Face)
* Case Discussions
* Case-Based Learning Sessions
* Bedside (Ward/Outpatient) Trainings

**INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY CLERKSHIP LEARNING** **GOALS**

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Microbiology Update | Classifies microorganisms. | 1 hour |
| Defines its microbiological properties. |
| Distinguishes which diseases are caused by microorganisms |
| Designs pathogen specific laboratory tests |
| Lists preventive measures against microorganisms |
| Rational Use of Laboratory Test in Infectious Diseases | Lists simple and easily applicable screening tests for the pathogen | 1 hour |
| Emphasizes inexpensive and highly sensitive tests in the desired tests for the pathogen |
| Sorts diagnostic tests from simple to more complicated ones according to the pathogen |
| Understands which test will be more helpful for the pathogen in diagnosis |
| Differential Diagnosis in Infectious Diseases | Lists main symptoms that are used in the differential diagnosis of infectious diseases. | 1 hour |
| Describes the steps from symptom to diagnosis. |
| Approach to acute fever in Community-Acquired infections | Expresses the distinction and importance between community and hospital acquired infections. | 1 hour |
| Lists possible foci of infection in a patient with community-acquired infection |
| Lists emergencies in a patient with suspected community- acquired infection |
| Lists the criteria for referral in infectious emergencies in a patient with suspected community-acquired infection |
| Antimicrobials Used to treat Community-Acquired Infections 1,2,3 | Sorts the names of the first antibiotic choices to be preferred in common community-acquired infections | 3 hours |
| Sorts the names, doses, uses and duration of use of antibiotics to be preferred in community-acquired infections |
| Refers to the side effects of antibiotics used in community-based infections and cases where they are contraindicated. |
| Antimicrobial Management in Community acquired Infections | Defines rational drug (antibiotic etc.) use. | 1 hour |
| Tells the main causes of antimicrobial resistance and the current situation in the world. |
| Lists the principles of antibiotic use |
| Lists usual pathogens of community-based infections. |
| Tells the duration of antibiotic treatment in common community-acquired infections. |
| Designs measures for the reduction and control of antimicrobial resistance, e.g. antimicrobial management, etc. |
| Infectious Diseases: Prevention and Control | Defines transmission methods of infectious diseases | 1 hour |
| Lists the principles of prevention and control of infections in the community acquired infections. |
| Lists Contact, droplet and respiratory isolation measures. |
| Designs chemoprophylaxis and immunoprophylaxis in adults. |
| Knows infections that need to be reported in primary care. |
| Immunization in Adults: Vaccination and Immunoprophylaxis | Tells the reasons for adult vaccination. | 1 hour |
| Lists general recommendations for vaccination. |
| Tells the principles of "cold chain". |
| Plans vaccines for different age groups. |
| Lists risk groups for vaccination according to the age groups |
| Plans vaccines for adult age at risk. |
| Designs post exposure vaccination |
| Understands the importance of anti-vaccination behavior |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Disinfection, Antisepsis and Sterilization in Daily Practice | Defines disinfection, antisepsis and sterilization | 1 hour |
| Understands conditions for disinfection, sterilization and antisepsis |
| Lists the most suitable chemical agents used in these processes. |
| New and Re-emerging Infections | It can identify new and re-emerging infectious diseases (NRID) and give examples. | 1 hour |
| Discusses the factors contributing to the NRID. |
| Lists the current causative agents of NRID. |
| As an example of NRID, informs about influenza and Crimean-Congo Hemorrhagic Fever diagnosis and treatment. |
| Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | Defines and lists infectious emergencies. | 1 hour |
| Knows approach to infectious emergencies. |
| Knows empirical treatment options for infectious emergencies. |
| Sepsis And Septic Shock | Remembers the symptoms of sepsis and sorts out his clinical findings. | 1 hour |
| Explains the approach to emergency treatment in sepsis. |
| Influenza, Infectious mononucleosis, Common Cold | Lists Upper Respiratory Tract Infections (URTI). | 1 hour |
| Distinguishes URTIs from each other, makes a diagnosis. |
| Explains the treatment approach to the URTIs. |
| Extrapulmonary Tuberculosis | Lists common clinical forms of extrapulmonary tuberculosis. | 1 hour |
| Explains referral criteria of the patient. |
| Knows how to monitor patient with Extrapulmonary Tuberculosis |
| Central Nervous System Infections | Lists the symptoms and clinical manifestations of central nervous system infection. | 1 hour |
| Describes the approach of emergency treatment for central nervous system infections. |
| Rabies: Clinical, Diagnosis and Prevention | Defines the diseases caused by rabies virus. | 1 hour |
| Defines important structural characteristics and virulence factors of rabies virus. |
| Defines the pathogenesis of rabies. |
| Informs about laboratory diagnosis of rabies |
| Provides information about prevention, active and passive immunization. |
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| Tetanus: Clinical, Diagnosis, Treatment and Prevention | Describes transmission methods of tetanus | 1 hour |
| Lists symptoms of the disease. |
| Explains treatment approaches |
| Detects and implements the need for immunization. |
| Skin and Soft Tissue Infections (Bacterial and Viral) | Classifies SSTI based on anatomical and histological features | 1 hour |
| Discusses causative agents of SSTI and its relationship with microbiota. |
| Informs about pathogenesis of SSTI and preventive measures |
| Recognizes life-threatening SSTIs and manages treatment options |
| Provides treatment measures of uncomplicated SSTI |
| Skin and Soft Tissue Infections and Diabetic Foot | Distinguishes diabetic foot from diabetic foot infection. | 1 hour |
| Discusses pathogenesis of diabetic foot and methods of prevention |
| He has a general view of the classification of diabetic foot infections. |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Bone and Joint Infections | Defines osteomyelitis and septic arthritis | 1 hour |
| Lists the most common causes of osteomyelitis and septic arthritis |
| Lists predisposing factors of bone and joint infections |
| Recognizes clinical findings and symptoms |
| Knows laboratory evaluation principles |
| Lists treatment options. |
| Zoonotic Infections | Understands epidemiological properties of zoonotic infections | 1 hour |
| Identifies clinical symptoms and findings |
| Plans lab tests to be requested for diagnosis. |
| Lists treatment approaches. |
| Describes methods of prevention. |
| Tick-Borne Infections (CCHF, Tick Encephalitis, Lyme Disease, etc.) | Lists clinical manifestations and symptoms. | 1 hour |
| Lists diagnostic methods. |
| Refers to the drugs used in the treatment. |
| Describes the methods of prevention. |
| Parasitic Infections of Clinical Importance (I) (Intestinal Parasites) | Lists routes of transmission | 1 hour |
| Lists clinical symptoms. |
| Remembers laboratory identification tests for the parasite |
| Describes methods of prevention. |
| Parasitic Infections of Clinical Importance (II) (Blood, Tissue Parasites) | Lists methods of transmission in important blood and tissue parasitosis. | 1 hour |
| Sorts diagnostic methods. |
| Organizes treatment options. |
| HIV - AIDS | Sorts clinical situations, diseases and laboratory findings that may suggest HIV infection. | 1 hour |
| Describes methods of prevention of HIV infection. |
| Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | Lists the symptoms and clinical manifestations of sexually transmitted diseases. | 1 hour |
| Refers to treatment of sexually transmitted diseases. |
| Describes methods of prevention of sexually transmitted diseases. |
| Diagnosis, Treatment of Urinary Tract Infections in Adults | Identify urinary system infections. | 1 hour |
| Sorts predisposing factors. |
| Detects signs and symptoms. |
| Interprets laboratory and radiological findings. |
| Understands the approach to asymptomatic bacteriuria. |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Acute Infectious Diarrhea and Food Poisoning in Adults | Lists the most common causes of acute infectious diarrhea. | 1 hour |
| Understands the pathogenesis of diarrhea. |
| Lists epidemiological and clinical characteristics of common causes of diarrhea. |
| Evaluates the clinical and laboratory findings of a patient with diarrhea. |
| Performs differential diagnosis of acute diarrhea |
| Designs treatment options for acute diarrhea. |
| Lists acute complications. |
| Tells preventive measures of acute diarrhea |
| Intra-Abdominal Infections | Lists organisms that can cause intra-abdominal infections. | 1 hour |
| Sorts the symptoms and clinical manifestations of intra-abdominal infections. |
| Describes emergency treatment options for serious intra- abdominal infections. |
| Acute Viral Hepatitis | Lists hepatotropic viruses that can cause acute hepatitis | 1 hour |
| Describes the approach to the patient presenting with acute viral hepatitis. |
| Sorts and interprets the tests to be requested in a patient presenting with acute viral hepatitis. |
| Healthcare Related Infections | Lists the principles of prevention and control of healthcare related infections. | 1 hour |
| Describes contact, droplet and respiratory precautions gives examples of which isolation measures to take for which disease. |
| Understands the importance of hand hygiene. |
| Travel Health and Related Infections | Defines travel associated infections | 1 hour |
| Designs pre-travel preparations |
| Lists travel related infections |
| Designs the evaluation (management) of the travel-related infection |
| Designs the management of travel associated diarrhea. |
| Designs immuno and chemoprophylaxis of the traveler |
| Migration and Infectious Diseases | Lists migration related health risks. | 1 hour |
| Lists demographic characteristics of migrations in our country and region. |
| Lists the reasons for migrations that are causing infection. |
| Lists the most common infections in migrants in our country and region. |
| Designs the management (treatment, control) of migration related infections. |

**ASSOCIATION OF LEARNING OBJECTIVES WITH PROGRAM COMPETENCIES AND KEY ROLES**

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| **LEARNING GOAL** | **RELATED PROGRAM QUALIFICATIONS** | **BASIC ROLE** | **MEDICAL SKILLS** |
| **R1- Medical Expert**  **R2-Collaborator**  **R3-Communicator**  **R4-Leader**  **R5-Health Advocate**  **R6-Scholar**  **R7-Professional** | **MS1- Analytical and Critical Thinking**  **MS2-Clinical Questioning-Reasoning**  **MS3-Problem Solving**  **MS4-Accessing and Using Information**  **MS5-Lifelong Learning**  **MS6-Communication and Teamwork** |
| Lists the infectious diseases that are important for the country and the region. | PQ1, PQ6, PQ12, PQ19 | R1, R2 | MS6, MS1, MS4 |
| Diagnoses community-acquired infectious diseases that are important for the country and the region, prepares a management plan based on evidence, recognizes and refers complicated cases. | PQ2, PQ4, PQ5, PQ6, PQ7, PQ8, PQ10,  PQ11,PQ13,PQ14,PQ16,PQ19,PQ20,PQ21 | R1, R2, R5 | MS5, MS6, MS4 |
| Rationally requests and interprets the diagnostic methods used in the diagnosis of infectious diseases of society origin. | PQ1,PQ4,PQ7,PQ8,PQ9,PQ11,PQ13,  PQ16,PQ18,PQ19,PQ20 | R1, R6,R7 | MS1, MS2, MS3 |
| Pre-diagnoses community-acquired infectious diseases, healthcare-associated infections, special host and foreign body infections that cannot be followed in primary care, and makes necessary referrals. | PQ1,PQ2,PQ3,PQ4,PQ5,PQ6,PQ7,PQ10,PQ11,PQ12,PQ13,PQ14,PQ15,PQ16,  PQ17,PQ18,PQ19,PQ21 | R1, R2, R3 | MS6, MS1, MS3 |
| Recognizes and reports notifiable diseases at the primary care level; follows and implements the necessary health legislation in primary care. | PQ1,PQ2,PQ3,PQ5,PQ6,PQ7,PQ8,PQ9,PQ10,PQ12,PQ13,PQ14,PQ15,PQ16,  PQ17,PQ18,PQ19,PQ20 | R1, R2, R3 | MS6, MS5, |
| Recognizes epidemics or newly emerging diseases in the community; establishes the necessary relations on the subject, makes preliminary examinations. | PQ3,PQ4,PQ5,PQ7,PQ8,PQ9,PQ10,  PQ12,PQ14,PQ15,PQ16,PQ17,PQ18,PQ19 | R1, R2, R3, R4 | MS6, MS5, MS2 |
| Applies the principles of rational antimicrobial use; counting resistance status, side effects of antimicrobials, drug interactions. | PQ1, PQ2, PQ8, PQ10, PQ11, PQ12, PQ13, PQ14, PQ16, PQ17, PQ18 | R1, R5, R7 | MS1, MS2, MS3, MS6 |
| Defines, applies and follows the principles of chemoprophylaxis and immunization in adults. | PQ1,PQ3,PQ4,PQ8,PQ9,PQ11,PQ12,  PQ13,PQ14,PQ17,PQ18,PQ19 | R1,R5 | MS4,MS5 |

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| **LEARNING GOAL** | **RELATED PROGRAM QUALIFICATIONS** | **BASIC ROLE** | **MEDICAL SKILLS** |
| **R1- Medical Expert**  **R2-Collaborator**  **R3-Communicator**  **R4-Leader**  **R5-Health Advocate**  **R6-Scholar**  **R7-Professional** | **MS1- Analytical and Critical Thinking**  **MS2-Clinical Questioning-Reasoning**  **MS3-Problem Solving**  **MS4-Accessing and Using Information**  **MS5-Lifelong Learning**  **MS6-Communication and Teamwork** |
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| Implements what is necessary for the prevention and control of community-acquired and primary health care-associated infections. | PQ3,PQ8,PQ10,PQ12,PQ13,PQ14,PQ15,PQ18,PQ19,PQ20,PQ21 | R1,R2,R3,R4 | MS6,MS1,MS5 |
| Practices evidence-based medicine and constantly updates its knowledge. | PQ2,PQ3,PQ4,PQ5,PQ7,PQ8,PQ9,PQ10,PQ11,PQ12,PQ13, PQ14, PQ15, PQ16, PQ17,PQ18 | R1,R5,R6,R7 | MS4,MS5 |
| Communicates ethically with the patient, their relatives, colleagues and other healthcare professionals. | PQ3,PQ5,PQ6,PQ7,PQ10,PQ15,PQ16, PQ17,PQ18,PQ19,PQ20 | R2,R3,R7 | MS6,MS4 |

**INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY** **CLERKSHIP** **CEP TABLE**

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **AGGRESSION** | Rabies | 1. Rabies: Clinical, Diagnosis and Prevention2. Zoonotic Infections | PreD P | Written |
| **ORAL LESION** | Sexually Transmitted Infections | Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | DT P | Written |
| **ORAL LESION** | AIDS and HIV | HIV -AIDS | PreD P | Written |
| **ORAL LESION** | Primary Immunodeficiency | Approach to Infections in a Private Mansion | P | Written |
| **FEVER** | Tuberculosis | Non-Lung Tuberculosis | D | Written |
| **FEVER** | Brucellosis | Zoonotic Infections | DT P | Written |
| **FEVER** | Rash Diseases |  | DT P | Written |
| **FEVER** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **FEVER** | Salmonella Infections | Acute Infectious Diarrhea and Food Poisoning in Adults | DT P | Written |
| **FEVER** | Upper Respiratory Tract Infections | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **FEVER** | Influenza | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **FEVER** | Sepsis | 1. Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches2. Sepsis And Septic Shock | D E | Written |
| **FEVER** | Crimean Congo Hemorrhagic Fever | Tick-Borne Infections (KKKA, Tick Encephalitis, Lyme Disease Vd) | E P | Written |
| **FEVER** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **FEVER** | Health Care Related Infections | Health Care Related Infections | P | Written |
| **HEADACHE** | Upper Respiratory Tract Infections | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **HEADACHE** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **MENTAL CHANGES** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **SORE THROAT** | Upper Respiratory Tract Infections | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **NAUSEA, VOMITING** | Gastroenteritis | Acute Infectious Diarrhea and Food Poisoning in Adults | DT E P | Written |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **NAUSEA, VOMITING** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **NAUSEA, VOMITING** | Acute Hepatitis | Acute Viral Hepatitis | D P | Written |
| **NAUSEA, VOMITING** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **NAUSEA, VOMITING** | Cholecystitis, Cholelithiasis | Intra-Abdominal Infections | P | Written |
| **NASAL DISCHARGE / CONGESTION** | Upper Respiratory Tract Infections | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **GROWTH DISTURBANCE** | Primary Immunodeficiency | Approach to Infections in a Private Mansion | P | Written |
| **GROWTH DISTURBANCE** | Primary Immunodeficiency | Approach to Infections in a Private Mansion | P | Written |
| **PALPITATION** | Endocarditis | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | PreD P | Written |
| **SKIN AND NAIL CHANGES (Dryness, Discoloring, etc.)** | Skin and Soft Tissue Infections | 1. Skin and Soft Tissue Infections (Bacteria, Virus; +)2. Skin and Soft Tissue Infections Diabetic Foot | DT | Written |
| **SKIN AND NAIL CHANGES (Dryness, Discoloring, etc.)** | Endocarditis | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | PreD P | Written |
| **DYSPEPSIA** | Cholecystitis, Cholelithiasis | Intra-Abdominal Infections | P | Written |
| **DIARRHEA** | Gastroenteritis | Acute Infectious Diarrhea and Food Poisoning in Adults | DT E P | Written |
| **DIARRHEA** | Gastrointestinal System Parasitosis | Significant Parasite Infections (I) (Bowel Parasites) | DT P | Written |
| **DIARRHEA** | Salmonella Infections | Acute Infectious Diarrhea and Food Poisoning in Adults | DT P | Written |
| **DIARRHEA** | Food Poisoning | Acute Infectious Diarrhea and Food Poisoning in Adults | E P | Written |
| **DYSURIA** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **DYSURIA** | Sexually Transmitted Infections | Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | DT P | Written |
| **JOINT PAIN / EDEMA** | Brucellosis | Zoonotic Infections | DT P | Written |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **NECK STIFFNESS** | Tetanus | 1. Immunization in adulthood: Vaccination and Immunoprophylaxis  2. Tetanus: Clinical, Diagnosis, Treatment and Prevention | D E P | Written |
| **NECK STIFFNESS** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **GENITAL ULCER** | Sexually Transmitted Infections | Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | DT P | Written |
| **CHEST PAIN** | Skin and Soft Tissue Infections (Shingles) | Skin and Soft Tissue Infections (Bacteria, Virus; +) | DT | Written |
| **VISUAL IMPAIRMENT / LOSS** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **WEAKNESS** | Tuberculosis | Non-Lung Tuberculosis | D | Written |
| **WEAKNESS** | Influenza | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **WEAKNESS** | Acute Hepatitis | Acute Viral Hepatitis | D P | Written |
| **HEMATURIA** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **HEPATOMEGALY** | Salmonella Infections | Acute Infectious Diarrhea and Food Poisoning in Adults | DT P | Written |
| **HEPATOMEGALY** | Acute Hepatitis | Acute Viral Hepatitis | D P | Written |
| **HEPATOMEGALY** | Malaria | Significant Parasite Infections (II) (Blood, Tissue Parasites) | D P | Written |
| **HEPATOMEGALY** | Hydatid Cyst Disease | Significant Parasite Infections (II) (Blood, Tissue Parasites) | PreD P | Written |
| **HYPOTHERMIA/ HYPERTHERMIA** | Sepsis | 1. Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches2. Sepsis And Septic Shock | D E | Written |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **INFERTILITY (Male, Female)** | Sexually Transmitted Infections | Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | DT P | Written |
| **HEARING DISORDER** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **CARDIAC MURMUR** | Endocarditis | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | PreD P | Written |
| **BLEEDING TENDENCY** | Vitamin K Deficiency | Tick-Borne Infections (KKKA, Tick Encephalitis, Lyme Disease Vd) | E P | Written |
| **ABDOMINAL PAIN** | Gastroenteritis | Acute Infectious Diarrhea and Food Poisoning in Adults | DT E P | Written |
| **ABDOMINAL PAIN** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **ABDOMINAL PAIN** | Salmonella Infections | Acute Infectious Diarrhea and Food Poisoning in Adults | DT P | Written |
| **ABDOMINAL PAIN** | Gastrointestinal System Parasitosis | Significant Parasite Infections (I) (Bowel Parasites) | DT P | Written |
| **ABDOMINAL PAIN** | Food Poisoning | Acute Infectious Diarrhea and Food Poisoning in Adults | E P | Written |
| **ABDOMINAL PAIN** | Cholecystitis, Cholelithiasis | Intra-Abdominal Infections | P | Written |
| **ABDOMINAL PAIN** | Peritonitis | Intra-Abdominal Infections | P | Written |
| **MUSCULOSKELETAL PAIN (Waist, Neck, Back, Hip and Extremity Pain)** | Osteoarthritis | Bone and Joint Infections | DT P | Written |
| **MUSCULOSKELETAL PAIN (Waist, Neck, Back, Hip and Extremity Pain)** | Brucellosis | Zoonotic Infections | DT P | Written |
| **PRURITUS** | Gastrointestinal System Parasitosis | Significant Parasite Infections (I) (Bowel Parasites) | DT P | Written |
| **WEIGHT LOSS** | Gastroenteritis | Acute Infectious Diarrhea and Food Poisoning in Adults | DT E P | Written |
| **WEIGHT LOSS** | Tuberculosis | Non-Lung Tuberculosis | D | Written |
| **WEIGHT LOSS** | Gastrointestinal System Parasitosis | Significant Parasite Infections (I) (Bowel Parasites) |  | Written |
| **WEIGHT LOSS** | AIDS and HIV | HIV -AIDS | PreD P | Written |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **COLIC PAIN (Renal, Biliary, Intestinal )** | Gastroenteritis | Acute Infectious Diarrhea and Food Poisoning in Adults | DT E P | Written |
| **COLIC PAIN (Renal, Biliary, Intestinal )** | Food Poisoning | Acute Infectious Diarrhea and Food Poisoning in Adults | E P | Written |
| **COLIC PAIN (Renal, Biliary, Intestinal )** | Cholecystitis, Cholelithiasis | Intra-Abdominal Infections | P | Written |
| **CONVULSIONS** | Intracranial Infections | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | E | Written |
| **LYMPHADENOPATHY** | Tuberculosis | Non-Lung Tuberculosis | D | Written |
| **NEURALGIA** | Rash Diseases |  | DT P | Written |
| **COUGH** | Upper Respiratory Tract Infections | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **COUGH** | İnfluenza | Flu, Mononucleosis Syndrome, Cold | DT P | Written |
| **PELVIC PAIN** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **PETECHIA, PURPURA, ECHIMOSIS** | Crimean Congo Hemorrhagic Fever | Tick-Borne Infections (KKKA, Tick Encephalitis, Lyme Disease Vd) | E P | Written |
| **POLLAKURIA / NOKTURIA** | Urinary Tract Infections | Diagnosis, Treatment of Urinary Tract Infections in Adulthood | DT P | Written |
| **JAUNDICE** | Acute Hepatitis | Acute Viral Hepatitis | D P | Written |
| **JAUNDICE** | Cholecystitis, Cholelithiasis | Intra-Abdominal Infections | P | Written |
| **Insect) / BITES** | Tetanus | 1. Immunization in adulthood: Vaccination and Immunoprophylaxis  2. Tetanus: Clinical, Diagnosis, Treatment and Prevention | T E P | Written |
| **INSECT BITES AND STINGS** | Crimean Congo Hemorrhagic Fever | Tick-Borne Infections (KKKA, Tick Encephalitis, Lyme Disease Vd) | E P | Written |
| **INSECT BITES AND STINGS** | Rabies | 1. Rabies: Clinical, Diagnosis and Prevention2. Zoonotic Infections | PreD P | Written |
| **SPLENOMEGALY** | Tuberculosis | Non-Lung Tuberculosis | D | Written |
| **SPLENOMEGALY** | Salmonella Infections | Acute Infectious Diarrhea and Food Poisoning in Adults | DT P | Written |
| **SPLENOMEGALY** | Brucellosis | Zoonotic Infections | DT P | Written |
| **SPLENOMEGALY** | Gastrointestinal System Parasitosis | Significant Parasite Infections (I) (Bowel Parasites) | DT P | Written |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **SPLENOMEGALY** | Malaria | Significant Parasite Infections (II) (Blood, Tissue Parasites) | D P | Written |
| **SPLENOMEGALY** | Endocarditis | Infection Emergencies: Diagnosis, Differential Diagnosis and Treatment Approaches | PreD P | Written |
| **TETANUS** | Tetanus | 1. Immunization in adulthood: Vaccination and Immunoprophylaxis  2. Tetanus: Clinical, Diagnosis, Treatment and Prevention | D E P | Written |
| **URETHRAL DISCHARGE** | Sexually Transmitted Infections | Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | DT P | Written |
| **URETHRAL DISCHARGE** | AIDS and HIV | HIV -AIDS | PreD P | Written |
| **VAGINAL DISCHARGE** | Sexually Transmitted Infections | Sexually Transmitted Infections: Diagnosis, Treatment, Prevention, Control | DT P | Written |
| **POISONINGS** | Gastroenteritis | Acute Infectious Diarrhea and Food Poisoning in Adults | DT E P | Written |
| **POISONINGS** | Acute Hepatitis | Acute Viral Hepatitis | D P | Written |
| **POISONINGS** | Food Poisoning | Acute Infectious Diarrhea and Food Poisoning in Adults | E P | Written |

|  |  |
| --- | --- |
| **LEARNING LEVEL** | **EXPLANATION** |
| **E** | Should be able to recognize the emergency and perform emergency treatment, and refer him/her to a specialist when necessary. |
| **PreD** | Should be able to make a preliminary diagnosis and make the necessary preliminary actions and direct them to the specialist. |
| **D** | Should be able to make a diagnosis and have knowledge about the treatment, and should direct them to the specialist by making the necessary preliminary procedures. |
| **DT** | He should be able to diagnose, treat. |
| **F** | Should be able to perform long-term follow-up and control in primary care conditions. |
| **P** | Prevention measures (primary, secondary, tertiary prevention as appropriate/  ones) should be implemented. |

**INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY INTERNSHIP BASIC MANAGEMENT PRACTICES**

|  |  |  |  |
| --- | --- | --- | --- |
| **APPLICATION** | **APPLICATION NAME** | **PHASE 5 LECTURE** | **LEVEL OF LEARNING** |
| **LABORATORY TESTS AND OTHER RELATED PROCEDURES** | Providing decontamination, disinfection, sterilization, antisepsis | Disinfection, Antisepsis, and Sterilization in Daily Practice | 4 |
| **LABORATORY TESTS AND OTHER RELATED PROCEDURES** | To be able to interpret the results of screening and diagnostic examination | Rational Laboratory Use in Infectious Diseases | 3 |
| **INTERVENTIONAL AND NON-INTERVENTIONAL APPLICATIONS** | Rational drug use | Antimicrobial Substances  Antimicrobial Stewardship in community acquired infections | 4 |
| **INTERVENTIONAL AND NON-INTERVENTIONAL APPLICATIONS** | Hand washing | Infectious Diseases: Prevention and Control | 4 |
| **INTERVENTIONAL AND NON-INTERVENTIONAL APPLICATIONS** | Lumbar puncture | Central Nervous System Infections (Visually Assisted) | 1 |

**ECTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Activities** | **Number** | **Duration (hours)** | **Total Workload (hours)** |
| **Theoretical Course** | 32 | 1 | 32 |
| **Case Based Learning** | 4 | 3 | 12 |
| **Bedside Teaching** | 20 | 2 | 40 |
| **Preparation for Flipped Class Lectures** | 30 | 2 | 60 |
| **Study for Midterm Exam** | 1 | 10 | 10 |
| **Study for final exam** | 1 | 10 | 10 |
| **Midterm Examination (Case Based Evaluation)** | 1 | 1 | 1 |
| **Final Exam** | 1 | 2 | 2 |
| **TOTAL WORKLOAD (Hours)** | | | 167 (6 ACTS) |

**INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY CLERKSHIP MEASUREMENT AND EVALUATION METHODS**

The total score of the students is calculated by adding scores from case-based evaluation, single and multiple answered multiple-choice test questions, open-labelled questions and Clinical Oriented Reasoning Examination (CORE) with certain ratios.

|  |  |
| --- | --- |
| **Exam Type** | **Percentage** |
| **CBL Evaluation** | %10 |
| **Multiple Choice Test** | %40 |
| **Open Labeled Questions** | % 30 |
| **CORE** | %20 |

|  |  |
| --- | --- |
|  | **TOPIC** |
| **Case-Based Learning Topics** | Upper Respiratory Tract Infections |
| Lower Respiratory Tract Infections |
| Skin and soft tissue diseases |
| Urinary Tract Infections |
| Acute Fever |

**RECOMMENDED RESOURCES FOR INFECTIOUS DISEASES AND CLINIC MICROBIOLOGY CLERKSHIP**

1. *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. John E. Bennett, Raphael Dolin, Martin J. Blaser (Editors); Elsevier Saunders.*
2. <http://www.cdc.gov/DiseasesConditions>.
3. <http://www.who.int/topics/en>.
4. UpToDate (<http://www.uptodate.com>).
5. Lecture Notes of the faculty. MEBİS
6. [https://www.msdmanuals.com/professional#en](https://www.msdmanuals.com/professional)
7. National Core Education Program-2020