

**T.C.**

**ISTANBUL MEDIPOL UNIVERSITY**

**INTERNATIONAL SCHOOL OF MEDICINE**



**UROLOGY CLERKSHIP GUIDE**

**2021-2022**

**UROLOGY CLERKSHIP GUIDE**

**CLERKSHIP DESCRIPTION**

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| **Education Period** | Year V |
| **Clerkship Duration** | 3 Weeks |
| **Training Place** | Medipol Mega University Hospital |
| **Instrructors** | * Prof. Dr. Maria del Pilar LAGUNA PES * Prof. Dr. Johan Joseph Maria Catharina Hubertus de la ROSETTE * Prof. Dr. Rahim HORUZ * Assoc. Prof. Dr. Bülent ERKURT * Assoc. Prof. Dr. Bülent ALTAY * Assoc. Prof. Dr. Vahit GÜZELBURÇ * Assoc. Prof. Dr. Mustafa Yücel BOZ * Assoc. Prof. Dr. Gökhan ÇALIK |
| **The Head Instructor** | * Prof. Dr. Rahim HORUZ |

**THE AIM OF UROLOGY CLERKSHIP**

Educating physicians who know about urological diseases, that are common and cause of significant morbidity and mortality in the adult and child patient groups, who can perform emergency intervention with parallel diagnosis and treat these diseases in parallel with theır level of leranıng during primary health care, who can direct the patients to an upper-level institution when necessary, who can provide advice on prevention methods and risk factors, who follow the current literature, who think scientifically and act per ethical rules at every stage.

**Learning Methods:**

* Theoretical Course (Online/Face to Face)
* Practical and Model Application (Urinary Catheter Application, Rectal Examination)
* Outpatient/Service/Operating Room Training

**UROLOGY CLERKSHIP LEARNING GOALS**

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Urogenital Traumas | Explains the principles of emergency treatment in urinary system traumas and the emergency measures to be taken without referral to the urologist. | 1 Hour |
| Sorts the systemic and specific findings of urinary system traumas and defines general diagnostic methods. |
| Lists the causes of urinary tract trauma. |
| Associates the genital area traumatic lesions with sexual assault and abuse. |
| Imaging Methods in Urology | Counts the types of imaging methods used in urology. | 1 Hour |
| Sorts out which urological diseases imaging methods can be used in. |
| Explains the findings of urinary system stone disease directly in graphene, ultrasound, and CT. |
| Understands the importance of reported solid mass lesions in terms of malignancy and evaluates that they should be directed to a urologist. |
| Counts the possible side effects of the methods that use contrast material and radiation. |
| Distinguishes groups of patients where imaging methods are safe or not. |
| Urological Instrumentation Endourology | Lists the uses of endoscopic urology. | 1 Hour |
| Names the devices used in endoscopic urology and describes their functions. |
| Offers the possibility of endoscopic treatment of kidney stones and urothelial system tumors. |
| Symptomatology and Clinical Evaluation | Counts the symptoms of urogenital diseases, sorts them in an organ-based order. | 1 Hour |
| Queries symptoms during story retrieval and identifies the relationship between them and diseases. |
| Counts the physical examination findings of urogenital diseases. |
| Exemplifies laboratory investigations and imaging techniques of urogenital diseases. |
| Sorts the Lower Urinary system complaints. |
| Classifies types of urinary incontinence. |
| Distinguishes hematuria and urethrorrhagia, explains its causes. |
| Sorts out urogenital infections that cause fever. |
| Discusses sexually transmitted urological diseases. |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Urological Emergencies | Counts the urological causes of side pain and outsizes the laboratory and imaging methods necessary for differential diagnosis. | 1 Hour |
| Lists the causes of urinary retention and emergency response steps and explains that it should be directed to the urologist. |
| Counts the causes of postrenal acute renal failure and lists the steps of emergency intervention and explains that he should refer them to a urologist. |
| Lists emergency penis/urethra pathologies and groups differential diagnoses. |
| Distinguishes and directs physique and paraphimosis. |
| Counts the pathologies of the acute scrotum, summarizes their treatment. |
| Distinguishes the urgency of testicular torsion, directs it by taking emergency measures. |
| Urination Physiology and Incontinence | Recalls the physiology of the lower urinary system. | 1 Hour |
| Explains the causes of sub-urinary system dysfunction. |
| Defines the tests used in the diagnosis of urination pathologies. |
| Describes the pathogenesis of functional urination disorders in children, sorts their complications, describes their conservative treatment. |
| Counts monosymptomatic enuresis treatments. |
| Explains the medical treatment options of incontinence types and offers the possibility of surgical treatment. |
| Urinary Tract Infections (Non-Specific Infections) | Defines terminology in urogenital system infections. | 1Hour |
| The urogenital system ranks pathogens that cause non-specific infections. |
| Explains the clinical manifestations of non-specific infections of the urogenital system, outlines the laboratory required for diagnosis and imaging methods if necessary, explains the principles of treatment. |
| The urogenital system counts indications and contraindications of drugs used in the treatment of non-specific infections. |
| Urinary Tract Infections (Specific Infections) | Sorts the urinary-specific infections. | 1 Hour |
| Summarizes the pathogenesis of urogenital system-specific infections. |
| The urogenital system counts the diagnostic systems of specific infections. |
| Defines the fundamental morphological changes that urogenital system-specific infections can cause in the urogenital system. |
| Sorts out the urogenital system complications of the specific infections. |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Urinary System Congenital Anomalies | Sorts congenital anomalies of the kidney, urethra, collector system, and bladder. | 1 Hour |
| Counts cystic diseases and basic characteristics of the kidney. |
| Lists the findings of the posterior urethral valve. |
| Sorts the findings of phimosis and paraphimosis. |
| Counts the findings of hypospadias and epispadias. |
| Adrenal Gland Diseases | Counts his surreal diseases. | 1 Hour |
| Lists clinical signs and symptoms of surrenal diseases. |
| Sorts the main characteristics of androgenetic syndromes. |
| Lists the classification of surrenal tumors, their basic pathological characteristics, clinical laboratory, and radiological findings. |
| Lists the characteristics and clinical findings of pheochromocytoma. |
| Counts pathology, clinical, diagnostic, and differential diagnosis of neuroblastoma. |
| Undescended Testicle and Other Scrotum Related Diseases | Lists symptoms and complications of the undescended testicular etiopathogenesis. | 1 Hour |
| Counts the hydrocele findings. |
| Explains the findings of orchitis and epididymitis. |
| Describes testicular torsion findings, diagnostic tools, and complications. |
| Sorts and specifies the findings and complications of varicocele. |
| Vesicoureterel Reflux | Describes basic morphological changes in vesicoureteral reflux disease, explains its pathogenesis. | 1Hour |
| Defines the symptoms, risk factors, screening criteria of VUR. |
| Lists radiological – nuclear medicine-biochemistry examinations used in diagnosis and follow-up. |
| Describes the complications of vesicoureteral reflux disease. |
| Explains conservative treatment. |
| Lists surgical treatment options. |
| Kidney Tumors | Counts the common mass lesions of the kidney benign and maligned. | 1 Hour |
| Describes the urological approach to a simple kidney cyst. |
| Tells the difference between simple and complicated kidney cysts. |
| Assesses that complicated kidney cysts that have the potential for malignity. |
| Distinguishes the risk of the malignity of a solid lesion throuMS the findings reported in ultrasound, CT, or MRI. |
| Counts the treatment options for kidney cancer detected at an early stage. |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Erectile Function/Dysfunction | Classifies sexual dysfunctions in men. | 1 Hour |
| Defines penile innervation in erection physiology. |
| Explains penile vascular anatomy. |
| Describes the hemodynamics of erection. |
| Counts the molecular sequence of flat muscle in the erection mechanism. |
| Refers to mediators that trigger and inhibit erection. |
| Counts systemic diseases that lead to erectile dysfunction. |
| Sorts the treatment options for erectile dysfunction. |
| Explains the side effects of agents used in the treatment of erectile dysfunction. |
| Describes the differences between terms of sexual function and infertility terms. |
| Benign Prostatic Hyperplasia | Counts BPH symptoms. | 1 Hour |
| Describes the pathophysiology of BPH. |
| Explains the possible complications of benign prostate obstruction on the bladder and kidney. |
| Lists the types of drugs used in the medical treatment of BPH. |
| Counts the side effects of BPH drugs. |
| Bladder Tumors / Upper Urinary System Urotelyal Tumors | Lists the risk factors for bladder tumor according to histological types. | 1 Hour |
| Distinguishes the characteristics of the muscle-invasive and superficial bladder tumor. |
| Describes the symptoms of bladder tumors. |
| Evaluates the radiological examination of the bladder tumor and upper urinary tract urothelial tumor, makes a preliminary diagnosis, and directs the patient. |
| Lists the treatment options for bladder tumor and upper urinary tract urothelial tumor. |
| Defines urinary diversification, classifies its types. |
| Explains that superficial urothelial tumors should be monitored regularly. |
| Infertility and Treatment in Men | Defines male infertility. | 1 Hour |
| Counts the findings of infertility in the males. |
| Identifies disorders in sperm parameters. |
| Describes treatment methods in male infertility. |
| Urinary System Stone Disease (Etiopathogenesis) | Identifies urinary system stone disease. | 1 Hour |
| Summarizes the etiology of stone disease and the frequency of incidence. |
| Counts groups that are at risk for stone disease. |
| Explains the precautions for preventing stone disease. |

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| **Course Name** | **Learning Objective of the Course / Application** | **Course Time / Application Time** |
| Urinary System Stone Disease (Surgical Treatment and Medical Treatment) | Counts the diagnostic methods of stone disease. | 1 Hour |
| Lists the complications of the urinary system stone disease. |
| Performs an emergency evaluation in acute renal failure due to stone disease and directs the patient. |
| Lists the treatment alternatives of the stone disease. |
| Distinguishes between SWL, endoscopic and open stone surgery options. |
| Explains the methods of follow-up of stone patients. |
| Prostate Carcinoma (Etiology, Pathogenesis, Diagnosis) | Explains the pathogenesis of prostate cancer. | 1 Hour |
| Counts the risk groups for prostate cancer. |
| Explains the staging principles of prostate cancer. |
| Describes biopsy indications for prostate cancer diagnosis. |
| Prostate Carcinoma (Surgical and Medical Treatment) | Interprets the importance of early diagnosis in prostate cancer. | 1 Hour |
| Counts the treatment options for early-stage and advanced disease. |
| Explains the side effects of treatments. |
| Explains the principles of follow-up in prostate cancer patients. |
| What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | Distinguishes the urgency of testicular torsion and directs it by taking emergency measures. | 1 Hour |
| Summarizes the immediate approach to urinary tract trauma. |
| Sorts the causes of urine retention, takes emergency measures, directs. |
| Identifies priapism, makes immediate guidance. |
| Distinguishes and directs physique and paraphimosis. |
| Counts acute scrotum pathologies. |
| Interprets his approach to the complaint of bloody urine. |
| Indicates and counts the findings of sexually transmitted urological diseases. |
| Testicular Tumors | Identifies the group of patients at risk for testicular tumors. | 1 Hour |
| Evaluates the relationship between the undescended testicle and testicular tumor. |
| Counts the physical examination findings of the testicle tumor. |
| Counts testicular tumor tokens. |
| Sorts treatment options by stage. |

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| Urogenital System Radiology | Lists the imaging methods and uses used in urogenital system diseases. | 2 Hours |
| Describes the stages of radiological diagnosis for symptoms in urogenital system diseases. |
| Describes normal anatomy and normal findings in direct urinary system x-rays. |
| Explains the findings and signs of direct graphene in common urogenital system diseases. |
| Defines the radiological terms used in the reporting of imaging methods used in urogenital system diseases. |

**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** |
| Recalls the anatomy and physiological mechanisms of the urogenital system. | PQ1 | R1 |  |
| Evaluates differential diagnosis using basic symptoms and urological examination findings and necessary diagnostic tools in common urological diseases. | PQ1, PQ2, PQ5, PQ6 | R1 | MS1, MS2, MS3 |
| During primary health care, makes the differential diagnosis for benign prostatic hypertrophy, cystic diseases of the kidney, kidney anomalies, kidney tumors, pelvic masses, varicocele, sexual dysfunctions, bladder cancer, prostate cancer, testicular tumor diseases, and refers them to the relevant urologist. | PQ1, PQ2, PQ5, PQ6, PQ7, PQ14 | R1, R2, R7 | MS1, MS2, MS3, MS6 |
| Manages chronic renal failure patients within the scope of primary health care and provides counseling and follow-up in primary care conditions. | PQ2, PQ3, PQ4, PQ14 | R1, R2 | MS4, MS6 |
| Diagnoses and plans the treatment of urinary tract infections and sexually transmitted infections. | PQ1, PQ2, PQ3, PQ6, PQ7, PQ11, PQ14, PQ18 | R1, R5, R7 | MS1, MS2, MS3, MS6 |
| Plans the emergency treatment of chronic renal failure, acute renal failure, Genito-urinary system trauma, Testicular torsion, Obstructive uropathy, and Urinary system stone disease. | PQ1, PQ2, PQ3, PQ6, PQ7, PQ11, PQ14 | R1 | MS1, MS2, MS3, MS6 |

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| **LEARNING GOAL** | **RELATED PROGRAM QUALIFICATIONS** | **BASIC ROLE** | **MEDICAL SKILLS** |
| **R1- Medical Doctor**  **R2-Team Player**  **R3-Communicator**  **R4-Leader**  **R5-Health Advocate**  **R6-Scientist**  **R7-Professional** | **MS1- Analytical and Critical Thinking**  **MS2-Clinical Inquiry-Reasoning**  **MS3-Problem Solving**  **MS4-Accessing and Using Information**  **MS5-Lifelong Learning**  **MS6-Communication And Teamwork** |
| Adopts the importance of preventive medicine in terms of bladder cancer, prostate cancer, testicular tumor, genital infections, urinary tract infections, sexually transmitted infections, chronic renal failure, and acute renal failure diseases. | PQ1, PQ3, PQ14 | RI, R5 | MS4, MS5 |
| Performs urological examination in full detail in uncomplicated and common cases and associates it with systemic physical examination findings. | PQ1, PQ6, PQ7 | R1, R3, R7 | MS2, MS6 |
| In uncomplicated cases, should be able to insert a urine catheter and perform a rectal examination. | PQ1, PQ6, PQ7 | R1, R7 | MS2, MS6 |
| Uses diagnostic methods in simple to complex steps. | PQ1, PQ2, PQ14 | RI, R7 | MS1, MS2, MS3, |
| Communicates effectively with patients, their relatives, and colleagues verbally and in writing. | PQ14 | R1, R3, R7 | MS6 |
| Should be able to observe human and patient riMSts while providing medical services and adopts the principles of protection of personal data. | PQ18, PQ19 | R1, R3, R7 | MS6 |
| Hepatobiliary system, gastrointestinal tract, respiratory system urogenital system, breast, musculoskeletal system, nervous system, circulatory system related anatomy, physiology, histology information. | PQ1 | R1 |  |
| Hepatobiliary system, gastrointestinal tract, respiratory system urogenital system, breast, muscular and skeletal system, nervous system, circulatory system diseases frequent clinical, laboratory, and radiological findings. | PQ1, PQ2, PQ7 | R1,R7 | MS1, MS2, MS3 |

**UROLOGY CLERKSHIP CEP TABLE**

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT EVALUATION METHOD** |
| **SCAR ON THE MOUTH** | Sexually Transmitted Infections | 1. Symptomatology and Clinical Evaluation  2. Urinary Tract Infections (Specific Infections) | DT P | Written-Oral |
| **SCAR ON THE MOUTH** | AIDS and HIV | Urinary Tract Infections (Specific Infections) | PreD P | Written-Oral |
| **ANURIA-OLIGURIA** | Chronic Renal Failure | 1. Symptomatology and Clinical Evaluation  2. Urinary System Congenital Anomalies  3. Vesicoureteral Reflux | PreD | Written-Oral |
| **ANURIA-OLIGURIA** | Acute Renal Failure | 1. Urogenital Traumas  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Physicians Need to Know in Urological Diagnosis and Treatment (General Summary) | D E P | Written-Oral |
| **ANURIA-OLIGURIA** | Obstructive Uropathy | 1. Imaging Methods in Urology  2. Urological Instrumentation Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Congenital Anomalies  6. Benign Prostatic Hyperplasia  7. Urinary System Stone Disease (Etiopathogenesis)  8. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  9. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **FEVER** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **NAUSEA, VOMITING** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **NAUSEA, VOMITING** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **SEXUAL FUNCTION PROBLEMS** | Sexual Dysfunctions | Erectile Function/Dysfunction | PreD | Written - Oral |
| **DYSPNEA** | Acute Renal Failure | 1. Urogenital Traumas  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Physicians Need to Know in Urological Diagnosis and Treatment (General Summary) | D E P | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **DYSURIA** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **DYSURIA** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **DYSURIA** | Genital Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary Tract Infections (Specific Infections)  4. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D P | Written-Oral |
| **DYSURIA** | Hipospadiasis, Epispadiasis | Urinary System Congenital Anomalies | D | Written-Oral |
| **DYSURIA** | Genito Urinary System Trauma | 1. Urogenital Traumas  2. Urological Emergencies  3. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | E | Written-Oral |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **DYSURIA** | Bladder Cancer | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Bladder Tumors / Upper Urinary System Urotelyal Tumors  5. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD P | Written-Oral |
| **DYSURIA** | Benign Prostatic Hyperplasia | 1. Urological Instrumentation\_Endourology  2. Symptomatology and Clinical Evaluation  3. Urological Emergencies  4. Urination Physiology and Incontinence  5. Benign Prostatic Hyperplasia  6. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD | Written-Oral |
| **ENURESIS** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **WOUND IN THE GENITAL AREA** | Sexually Transmitted Infections | 1. Symptomatology and Clinical Evaluation  2. Urinary Tract Infections (Specific Infections) | DT P | Written-Oral |
| **WOUND IN THE GENITAL AREA** | Genital Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary Tract Infections (Specific Infections)  4. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D P | Written-Oral |
| **WOUND IN THE GENITAL AREA** | Negligence, Abuse | Urogenital Traumas | PreD P F | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **HEMATURIA** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **HEMATURIA** | Schistosomiasis | Urinary Tract Infections (Specific Infections) | PreD | Written-Oral |
| **HEMATURIA** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **HEMATURIA** | Genito Urinary System Trauma | 1. Urogenital Traumas  2. Urological Emergencies  3. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | E | Written-Oral |
| **HEMATURIA** | Prostate Cancer | 1. Symptomatology and Clinical Evaluation  2. Prostate Carcinoma (Etiology, Pathogenesis, Diagnosis)  3. Prostate Carcinoma (Surgical and Medical Treatment) | PreD P | Written-Oral |
| **HEMATURIA** | Bladder Cancer | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Bladder Tumors / Upper Urinary System Urothelial Tumors  5. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD P | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **HEMATURIA** | Benign Prostatic Hypertrophy | 1. Urological Instrumentation\_Endourology  2. Symptomatology and Clinical Evaluation  3. Urological Emergencies  4. Urinary Physiology and Incontinence  5. Benign Prostatic Hyperplasia  6. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD | Written-Oral |
| **HYPERTENSION** | Acute Renal Failure | 1. Urogenital Traumas  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Physicians Need to Know in Urological Diagnosis and Treatment (General Summary) | D E P | Written-Oral |
| **URINE RETENTION** | Obstructive Uropathy | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Congenital Anomalies  6. Benign Prostatic Hyperplasia  7. Urinary System Stone Disease (Etiopathogenesis)  8. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  9. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **URINE RETENTION** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology 3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **URINE RETENTION** | Bladder Cancer | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Bladder Tumors / Upper Urinary System Urothelial Tumors  5. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD P | Written-Oral |
| **URINE RETENTION** | Prostate Cancer | 1. Symptomatology and Clinical Evaluation  2. Prostate Carcinoma (Etiology, Pathogenesis, Diagnosis)  3. Prostate Carcinoma (Surgical and Medical Treatment) | PreD P | Written-Oral |
| **URINE RETENTION** | Benign Prostatic Hypertrophy | 1. Urological Instrumentation\_Endourology  2. Symptomatology and Clinical Evaluation  3. Urological Emergencies  4. Urinary Physiology and Incontinence  5. Benign Prostatic Hyperplasia  6. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD | Written-Oral |
| **INFERTILITY (Male, Female)** | Sexually Transmitted Infections | 1. Symptomatology and Clinical Evaluation  2. Urinary Tract Infections (Specific Infections) | DT P | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **INFERTLITY (Male, Female)** | Genital Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary Tract Infections (Specific Infections)  4. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D P | Written-Oral |
| **INFERTLITY (Male, Female)** | Testicular Tumor | 1. Symptomatology and Clinical Evaluation  2. Undescended Testicle and Other Related Coverage Diseases  3. Testicular Tumors | PreD P | Written-Oral |
| **INFERTLITY (Male, Female)** | Varicocele | Infertility and Treatment in Men | PreD | Written-Oral |
| **ABDOMEN PAIN** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **ABDOMEN PAIN** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **ABDOMEN PAIN** | Testis Torsiyonu | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | E | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **MASS IN THE ABDOMEN** | Obstructive Uropathy | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Congenital Anomalies  6. Benign Prostatic Hyperplasia  7. Urinary System Stone Disease (Etiopathogenesis)  8. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  9. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **MASS IN THE ABDOMEN** | Cystic Diseases of the Kidney | 1. Imaging Methods in Urology  2. Urinary System Congenital Anomalies  3. Kidney Tumors | PreD | Written-Oral |
| **MASS IN THE GROIN/SCROTUM** | Hydrocele | 1. Undescended Testicle and Other Scrotum Related Diseases | D | Written-Oral |
| **MASS IN THE GROIN/SCROTUM** | Testicular Torsion | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | E | Written-Oral |
| **MASS IN THE GROIN/SCROTUM** | Testicular Tumor | 1. Symptomatology and Clinical Evaluation  2. Undescended Testicle and Other Scrotum Related Diseases  3. Testicular Tumors | PreD P | Written-Oral |
| **MASS IN THE GROIN/SCROTUM** | Varicocele | 1. Infertility and Treatment in Men | PreD | Written-Oral |
| **WEIMST LOSS** | AIDS and HIV | 1. Urinary Tract Infections (Specific Infections) | PreD P | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **COLIC PAIN (Renal, Biliary, Intestinal)** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **COLIC PAIN (Renal, Biliary, Intestinal)** | Obstructive Uropathy | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Congenital Anomalies  6. Benign Prostatic Hyperplasia  7. Urinary System Stone Disease (Etiopathogenesis)  8. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  9. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **OEDEMA** | Chronic Renal Failure | 1. Symptomatology and Clinical Evaluation  2. Urinary System Congenital Anomalies  3. Vesichoureterel Reflux | PreD | Written-Oral |
| **PELVIC PAIN** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **PELVIC PAIN** | Urinary System Stone Disease | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Urological Emergencies  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and Medical Treatment)  7. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D E | Written-Oral |
| **POLYURIA** | Chronic Renal Failure | 1. Symptomatology and Clinical Evaluation  2. Urinary System Congenital Anomalies  3. Vesichoureterel Reflux | PreD | Written-Oral |
| **POLLACURY / NOCTURIA** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **POLLACURY / NOCTURIA** | Chronic Renal Failure | 1. Symptomatology and Clinical Evaluation  2. Urinary System Congenital Anomalies  3. Vesichoureterel Reflux | PreD | Written-Oral |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **POLLACURY / NOCTURIA** | Benign Prostatic Hyperplasia | 1. Urological Instrumentation\_Endourology  2. Symptomatology and Clinical Evaluation  3. Urological Emergencies  4. Urinary Physiology and Incontinence  5. Benign Prostatic Hyperplasia  6. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD | Written-Oral |
| **TOBACCO USE** | Bladder Cancer | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Bladder Tumors / Upper Urinary System Urotelyal Tumors  5. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD P | Written-Oral |
| **TOBACCO USE** | Sexual Dysfunctions | 1. Erectile Function/Dysfunction | PreD | Written-Oral |
| **URETHRAL FLOW** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |
| **URETHRAL FLOW** | Sexually Transmitted Infections | 1. Symptomatology and Clinical Evaluation  2. Urinary Tract Infections (Specific Infections) | DT P | Written-Oral |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **URETHRAL FLOW** | Genital Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary Tract Infections (Specific Infections)  4. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D P | Written-Oral |
| **URETHRAL FLOW** | AIDS and HIV | 1. Urinary Tract Infections (Specific Infections) | PreD P | Written-Oral |
| **URINE INCONTINENCE** | Urinary Tract Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. What Primary Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | DT P | Written-Oral |

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| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 -COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **URINE INCONTINENCE** | Genital Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary Tract Infections (Specific Infections)  4. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D P | Written-Oral |
| **URINE INCONTINENCE** | Prostate Cancer | 1. Symptomatology and Clinical Evaluation  2. Prostate Carcinoma (Etiology, Pathogenesis, Diagnosis)  3. Prostate Carcinoma (Surgical and Medical Treatment) | PreD P | Written-Oral |
| **URINE INCONTINENCE** | Bladder Cancer | 1. Imaging Methods in Urology  2. Urological Instrumentation\_Endourology  3. Symptomatology and Clinical Evaluation  4. Bladder Tumors / Upper Urinary System Urothelial Tumors  5. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD P | Written-Oral |
| **URINE INCONTINENCE** | Urogenital System Radiology | 1. Urological Instrumentation\_Endourology  2. Symptomatology and Clinical Evaluation  3. Urological Emergencies  4. Urinary Physiology and Incontinence  5. Benign Prostatic Hyperplasia  6. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | PreD | Written-Oral |
| **URINE INCONTINENCE** | Kidney Anomalies | 1. Imaging Methods in Urology  2. Symptomatology and Clinical Evaluation  3. Urinary System Congenital Anomalies  4. Vesichoureterel Reflux | PreD | Written-Oral |
| **VAJINAL FLOW** | Genital Infections | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. Urinary Tract Infections (Specific Infections)  4. What Primary Care Physicians Should Know in Urological Diagnosis and Treatment (General Summary) | D P | Written-Oral |
| **NAUSEA, VOMITING** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **DYSURIA** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **DYSURIA** | Bladder Cancer | Urogenital System Radiology | D | Written-Oral |
| **HEMATURIA** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **SYMPTOMS/CONDITIONS** | **CORE DISEASES / CLINICAL PROBLEMS** | **TERM 5 - COURSE NAME** | **LEVEL OF LEARNING** | **MEASUREMENT-EVALUATION** |
| **HEMATURIA** | Bladder Cancer | Urogenital System Radiology | D | Written-Oral |
| **HEMATURIA** | Kidney Tumors | Urogenital System Radiology | D | Written-Oral |
| **URINE RETENTION** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **URINE RETENTION** | Bladder Cancer | Urogenital System Radiology | D | Written-Oral |
| **INFERTILITY (Male, Female)** | Testicular Tumor | Urogenital System Radiology | D | Written-Oral |
| **ABDOMEN PAIN** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **ABDOMEN PAIN** | Testicular Torsion | Urogenital System Radiology | D | Written-Oral |
| **MASS IN THE GROIN/SCROTUM** | Testicular Torsion | Urogenital System Radiology | D | Written-Oral |
| **MASS IN THE GROIN/SCROTUM** | Testicular Torsion | Urogenital System Radiology | D | Written-Oral |
| **COLIC PAIN (Renal, Biliary, Intestinal)** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **PELVIC PAIN** | Urinary System Stone Disease | Urogenital System Radiology | D | Written-Oral |
| **TOBACCO USE** | Bladder Cancer | Urogenital System Radiology | D | Written-Oral |
| **URINE INCONTINENCE** | Bladder Cancer | Urogenital System Radiology | D | Written-Oral |
| **BURNS** | Acute Renal Failure | 1. Urogenital Traumas  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and MedicalTedavi)  7. What Primary Physicians Need to Know in Urological Diagnosis and Treatment (General Summary) | D EP | Written-Oral |
| **POISONINGS** | Acute Renal Failure | 1. Urogenital Traumas  2. Urological Emergencies  3. Urinary System Infections (Non-Specific Infections)  4. Urinary System Infections (Specific Infections)  5. Urinary System Stone Disease (Etiopathogenesis)  6. Urinary System Stone Disease (Surgical Treatment and MedicalTedavi)  7. What Primary Physicians Need to Know in Urological Diagnosis and Treatment (General Summary) | D E P | Written-Oral |

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| 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/ |

**UROLOGY CLERKSHIP BASIC MANAGEMENT PRACTICES**

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| **APPLICATION** | **APPLICATION NAME** | **TERM 5 COURSE NAME** | **LEVEL OF LEARNING** |
| **GET THE STORY** | Getting a general and problem-oriented story | Symptomatology and Clinical Evaluation | 4 |
| **GENERAL AND PROBLEM-ORIENTED PHYSICAL EXAMINATION** | Forensic case examination | 1. Symptomatology and Clinical Evaluation  2. Urological Emergencies  3. What Primary Care Physicians Need to Know in Urological Diagnosis and Treatment | 3 |
| **GENERAL AND PROBLEM-ORIENTED PHYSICAL EXAMINATION** | Abdominal examination | 1. Symptomatology and Clinical Evaluation | 4 |
| **GENERAL AND PROBLEM-ORIENTED PHYSICAL EXAMINATION** | Urological examination | 1. Symptomatology and Clinical Evaluation  2. Finger rectal examination training on model | 3 |
| **RECORD KEEPING, REPORTING AND REPORTING** | Inform and consent | Symptomatology and Clinical Evaluation | 4 |
| **RECORD KEEPING, REPORTING AND REPORTING** | Preparing epicrisis | Symptomatology and Clinical Evaluation | 3 |
| **RECORD KEEPING, REPORTING AND REPORTING** | Ability to prepare a patient file | Symptomatology and Clinical Evaluation | 3 |
| **RECORD KEEPING, REPORTING AND REPORTING** | Ability to refer patients appropriately | Symptomatology and Clinical Evaluation | 3 |
| **RECORD KEEPING, REPORTING AND REPORTING** | Ability to write prescriptions | Symptomatology and Clinical Evaluation | 4 |
| **LABORATORY TESTS AND OTHER RELATED PROCEDURES** | Reading and evaluating radiography directly | 1. Imaging methods in urology  2. Urinary system stone disease (Etiopathogenesis and Diagnosis) | 3 |
| **LABORATORY TESTS AND OTHER RELATED PROCEDURES** | Being able to fill out the request form for laboratory inspection | Symptomatology and Clinical Evaluation | 4 |
| **LABORATORY TESTS AND OTHER RELATED PROCEDURES** | To be able to take the laboratory sample under favorable conditions and to deliver it to the laboratory | Symptomatology and Clinical Evaluation | 4 |
| **ENTREPRENEURIAL AND NON-ENTREPRENEURIAL APPLICATIONS** | Ability to insert a urinary catheter | 1. Catheter mount training on the model  2. Urological Instrumentation\_Endourology | 3 |

**UROLOGY CLERKSHIP MEASUREMENT AND EVALUATION METHODS**

Students’ meeting score is calculated throuMS the %50 of practical exam and %50 of theoretical exams.

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| **Exam Type** | **Percentage** |
| **Written Exam** | %60 |
| **Rapid Fire Quiz** | %20 |
| **CBL (Case Based Learning)** | %20 |

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| **LESSON** | **SUBJECT** |
| **Case-Based Learning** | Urinary system stone disease |
| STDs |
| Abs+ Uropathy |
| Urinary tract infections |

**RECOMMENDED RESOURCES FOR** **UROLOGY CLERKSHIP**

1. CLERKSHIP Course Notes of Lecturers
2. General Urology, Smith and Tanago, Nobel Medical Bookstore, 2014
3. Campbell - Walsh Urology, 10. Print, Sun Medical Bookstore, 2014