# مقارنة ما يقدمه البرنامج من نتائج تعليمية مستهدفة مع المعايير المرجعية لبرنامج الدكتوراة في جراحة المسالك البولية والتناسلية.

### أ ـ المعرفة والفهم:

المقررات التي تحقق المعايير الأكاديمية للبرامج	ILOs مخرجات التعلم المستهدفة	(ARS) Benchmark المعايير الأكاديمية لجامعة European Board of Urology	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا
Surgical	A1, A2, A3	Describe the embryology	Relevant anatomical principles of
anatomy		and development of the	urologic practice.
		urogenital system	
		Describe the normal anatomy of	
		the following abdominal	
		structures:	
		<ul> <li>Anatomy of the kidney and ureters.</li> <li>Anatomy of the urinary bladder, prostate and urethra.</li> <li>Blood supply and lymph drainage of the urinary system</li> <li>Muscles of the back and flanks</li> <li>Autonomic nerve plexuses supplying the urogenital system.</li> <li>Ischeorectal fossa.</li> <li>Autonomic and sacral plexus.</li> <li>Internal iliac vessels</li> <li>Describe the normal anatomy of the following pelvic structures:</li> <li>Pelvic and urogenital diaphragms</li> <li>Superficial and deep perineal pouches</li> </ul>	
		- External genitalia	
Applied pathology	A1, A2, A3, A4, A5	Discuss the principles of General pathology Describe the pathological details of: 1- Bladder tumours.  Urothelial and non urothelial tumours. 2- Renal tumours: Benign and malignant renal tumours. 3- Upper urothelial tumours. 4- Testicular tumours.	Relevant pathologic principles of urologic practice.

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infection, common	
pathogens and common	
infection routes and risk	
factors and get a detailed	
knowledge of the	
treatment procedures.	
- Describe the various	
types of bladder, renal,	
prostate, testicular,	
urethral and penile	
tumors, their	
pathologies, diagnosis,	
specific investigations	
and treatment.	
- Enumerate the groups	
of symptoms of the	
urinary tract and the	
steps of general, local	
and DRE examination.	
- Discuss the	
mechanisms, diagnosis	
and treatment of renal	
injuries.	
- Discuss the etiology,	
pathology, diagnosis and	
treatment of bladder,	
urethral, ureteric and	
testicular traumas.	
- Describe the etiology,	
pathology, diagnosis and	
treatment of common	
pediatric urologic	
tumors and in particular	
Wilms' tumor and	
neuroblastoma.	
- Enlist the symptoms	
associated with BPH, methods	
of diagnosis and treatment.	
- Enumerate the various	
groups of drugs used for cancer	
chemotherapy and	
immunosuppressive drugs	
used after renal transplantation.	

## ب ـ القدرات الذهنية:

المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark المعايير الأكاديمية لجامعة European Board of Urology	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا
	B1, B2, B3, B4, B5, B6,	-Describe the types of	1- Medical data analysis, interpretation and
TI I MED and	B7, B8, B9, B10, B11,	donors and technical	proper therapy choice.
Urology MD 2 <sup>nd</sup>	B7, B6, B9, B10, B11,	aspects of renal	2- Medical problem solving and Evidence-
part	B12, B13, B14	transplantation.	based medicine.
		-Differentiate between	3- Medical problem solving and Evidence-
		the various causes	1

- of hematuria and put a list of differential diagnosis.
- -Differentiate between anuria and retention and enlist the various types and causes of these diseases.
- -Differentiate between the various types of renal and urinary stones, describe the methods of diagnosis and define the indications and contraindications of every treatment option.
- -Detects the uses of laparoscopy and robots in urology and the recent trends about their roles.
- Discuss and get insight into the differential diagnosis of a bladder mass, TNM staging of bladder cancer and the treatment of nonmuscle invasive and muscle invasive bladder cancer.
- Discuss and get insight into the differential diagnosis of a nodular prostate.
- Describe the differential diagnosis of a renal mass, TNM staging of renal cancer.
- Describe the differential diagnosis of scrotal and testicular masses in different ages. And recent trends in diagnosis and treatment.
- Integrate history taking with physical examination and imaging to make the diagnosis of bladder, renal and prostate cancers
- Interprets
  perioperative
  complications of
  PCNL and design a
  plan for their
  treatments.

based medicine.

- 4- Medical problem solving and Evidence-based medicine.
- 5- Participation in research development and innovation.
- 6- Scientific paper writing.

	- Interprets	
	perioperative	
	complications of	
	TURP and design a	
	plan for their	
	treatments.	
	- Construct an algorithm	
	for the management of	
	renal masses.	
	- Evaluate the treatment	
	given to a case of adrenal	
	tumor.	

# ج - المهارات العملية:

المقررات التى تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark المعايير الأكاديمية لجامعة European Board of Urology	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا (درجة الدكتوراه)
Urology MD 2 <sup>nd</sup> part	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11	-Perform full history taking and physical examination of urologic patients and record patients 'data appropriately for future use.  -Perform suprapubic catheterization, PCN and PCTD fixation under guidance and then unsupported.  -Practice ureteroscopy, PCNL, TURP and TURBT, at first supervised and then independently.  -Practice radical cystectomy and various urinary diversion techniques.  -Evaluate and criticize the different therapeutic techniques for treating urinary stones.  -Provide first aid measures for renal colick and urethral, bladder and renal trauma patients in the Emergency Hospital.	7- Professionalism and up to date practise. providing patient care that is compassionate, appropriate, & effective for the treatment of health problems and the promotion of health. In this context; trainees must demonstrate a commitment to carrying out professional responsibilities & an adherence to ethical principles. trainees are expected to demonstrate. (1) compassion, integrity, and respect for others; (2) responsiveness to patient needs that supersedes self-interest; (3) respect for patient privacy and autonomy; (4) accountability to patients, society and the profession; and,(5) sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.

-Demonstrate ability to conduct the various steps of stopping hematuria and other bleeding types within the urinary tract.
-Formulate treatment plans for complicated and uncomplicated urinary tract infections (UTI).
-Write and publish urological manuscripts related to his researches.
-Adopt complete aseptic precautions in dealing with the operating theatre.
-Practice the different steps of laparoscopy.

### د- مهارات الاتصال:

المقررات التى تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark المعايير الأكاديمية لجامعة	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا
Urology MD 2 <sup>nd</sup> part	D1, D2, D3, D4, D5, D6, D7, D8	-Manage live threatening situations and communicate with the patients, relatives and guardians in an effective way.  -Describe and practice delivering bad news to the patient.  -Direct and lead a group of junior staff.  -Perform a good medical report for morbidity and mortality.  -Describe and be a model for applying professional and research ethics.  -Conduct an effective lecture and	<ol> <li>Interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals</li> <li>Self-appraisal and life-long learning</li> <li>Accessibility to specialty-specific and other appropriate reference material in print or electronic format. Electronic medical literature databases with search capabilities</li> <li>Teamwork/leadership</li> <li>Time management and meeting organization</li> <li>Interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals</li> <li>Teaching and evaluation skills as senior staff.</li> </ol>

presentation according to the known standards.	
-Conduct a good training for the young colleagues.	
-Analyze the soft skills that must be practiced by a certified urologist.	