نموذج وصف المقرر الدراسي

اسم الجامعة: جامعة جامعة وارث الانبياء عليه السلام

الكلية/ المعهد: كلية الطب

القسم العلمي: الكلم لمحر

السم المقرر: الوصرة النامنة / المرحلة النالية

النظام الدراسي: النَّا النَّاكِ النَّاكِ

تاریخ اعداد الوصف: ۲۰/۸/ م)- ۵

تاریخ ملء الملف: ۱ ۱ (۵) کا

التوقيع:
معاون العميد للشؤون الهي ١، ح، د , لرككس معاون العميد للشؤون الهي ١، ح، د , لرك كس ١٠٠٠

التوقيع:
رئيس الفوع او الوحدة: ١٠٠٠ ما ممدة مصر

م حماد م محمد المرابع المرابع

متم تدعیق الملف من مَل میم تدعیق الملف من مَل میم شخبه مُهان الحودة م لاداد کا معی

اسر در مفته مهان , فوده : ۱.د. کاب مری بودی الوسری الماری ی در کاب دی الموسری الماری ی در کاب دی الموسری الماری ی در کاب در کاب الماری ی در کاب در ک

Unit eight (genitourinary) Code: medu302

1. Anatomy

	ANATOMY		HISTOLOGY	EMBRYOLOGY	hr
		WK	1		
	kidney & abdominal part of urete	r	Kidney & ureter		2+2
lab	histology (Kidney & ureter)	tronomics with replace the site of the strong value of the strong value of the site of the			2
		1	VK2		
	Urinary bladder &pelvic ureter		Urinary bladder		2+2
lab	Anatomy of urinary system				2
		· ·	VK3		Levendandresone
	Prostate & urethra	lanta astronomo ar estratoj irraparatoj i kontenza por irrausantinos	Prostate & urethra		2+2
lab	Histology(Urinary bladder, pro	ostate	& urethra)		2
		I	VK4		Louisenmentuationshousensus
				Embryology of UT& congenital anomalies	2
		V	VK5		
	anatomy of the female genital system	n	Histology of the female genital system		2+2
lab	Histology of the female genital	syste			2
			VK6		
	anatomy of the male genital syste	em	Histology of the male genital system		2+2
				Embryology of GT	2
lab	Histology of the female genital	syster	n		2
		1	VK7		
	perineum			Embryological basis of congenital diseases	2+2
lab	Anatomy of genital tract & per	ineun			2
		1	VK8		Annea para para proposa ana atra
	Morphological anatomy of mammary gland	Hist	tology of mammary gland		4
lab	Histology of mammary gland	antures from a father treasure management of granufation and			2
نظري	14	trace with the second state of the second state of the second second second second second second second second	12	4	28
عملي	4	ghanair ann haonach fhòighrin an beann an ghlàigit no bhair de ann	10		14

2. Physiology

week	Objectives/Theory	hours	Objective/ practical	hours
one	Renal hemodynamics; renal	4	P. 2021001	
	blood flow and glomerular			
	function			
	Describe the functional unit of the kidney –			
	(Nephron)			
	Distinguish between cortical and juxta-medullary –			
	.nephrons			
	Describe the location, structure and function of -			
	.juxtaglomerular apparatus			
	Describe the filtration membrane's structure and -			
	function			
	Describe features of the endothelial capsular –			
	membrane that allow it to act as a filter			
	List and name forces that —			
	contribute to net filtration pressure and explain How			
	.NFP is calculated			
	.Define glomerular filtration rate –			
	Describe the intrinsic and extrinsic mechanisms —			
	that regulate glomerular filtration rate and renal			
	blood flow			
	Define the filtration coefficient and how it may —			
	.affect the glomerular filtration rate			And
	Describe different signs and symptoms resulting -			
	from disruption of physiological function of			
	.glomerular filtration membrane			
,	Renal transport mechanisms			
	Tubular processes overview –			
	Tubular reabsorption processes of water, sodium, -			
	potassium, chloride, glucose, amino acids			
	Tubular secretion -endogenous substances, some -			
	+drugs, H			
	Describe the tubular maximum mechanism			
	Identify factors affecting glomerular reabsorption of			
	.glucose			ļ
two	Tubular function:	3		
	1. Describe the permeability and ion			
	transport			
	2. characteristics of each segment of			
	the nephron.			
	3. Describe the action and site of action			
	of aldosterone.			
	4. Describe the site of secretion of K+.			
	5. Describe the function of the principal			
	cells.			
	6. Describe the function of the			
	intercalated cells.			
	Regulation of effective			
	circulating volume			
	-Describe the water permeability			

Secure and the secure of the s			
	characterstics of the loops of Henle, distal convoluted tubule and cortical and medullary collecting ducts. -Describe the mechanism of Countercurrent multiplion and the generation of medullary interstitial hyper osmolarity. -Describe the unction of the vasa recta as a countercurrent exchanger in the development and maintenance of the renal corticomedullary osmolar concentration		
these	gradient .Describe the role of ADH.		
three	Mechanism of micturition -Describe the nervous control of Bladder function. -Describe changes in intravesical Pressure during filling and voiding. -Describe the micturition reflex. -Describe the physiological factors that influence micturition. -Outline the main disorders of Bladder function.		
Four	; Effect or urinary obstruction of renal function -Describe the function of the prostate -Describe the effect of enlarged prostate on renal function and bladder function	1	
	ronconon anterestable for the formation of the first of the formation of the first		

five	1. Describe the structural	2		
	arrangement that			
	subserves the			
	reproductive function of		•	
	the testis.			
	2. Describe the physiology			
	of spermatogenesis and			
	its hormonal regulation.			
	3. Explain how the			
	Pampiniform plexus of			
	veins acts as as counter			
	current heat exchanger			
	4. Describe the pathway			
	taken by a sperm cell	the second control of		
	from its formation site			
	to its ejaculation.			
	5. Explain the pattern of			
	secretion and			
	metabolism of			
	testosterone.			
	6. Describe function of			
	testosterone during			
	fetal development.			
	7. Identify the various			
	actions of androgenic			
	hormones.			
	8. Describe role of			
	testosterone in erection,			
	emission and			
	ejaculation			
six	Female! Menstrual! Cycle	2		
total		13		

3. Pathology

weeks	Objectives/theory		Objectives/ practical	Number of hours
Week 1	 Classify the different types of glomerular diseases and outline the different mechanisms of glomerular injury. Differentiate between the clinical manifestations of Nephritic/Nephrotic syndrome. And outline the 	2	types of glomerular diseases	2

Week 2	Pathophysiologic mechanisms underlying each - List the causes of Nephrotic syndrome (Primary glomerular /systemic diseases) and describe the etiology, therenal morphology, pathogenesis and clinical course in each condition - List clinical manifestations and laboratory investigations of renal failure. - Describe the pathology of drug induced interstitial Nephritis - Outline the pathogenesis, morphologic features and clinical picture of Acute tubular injury (ATI) -List the causes of obstructive uropathy and outline its Consequences on the kidney (Hydronephrosis)	1		
Week 3	 Discuss the pathology of urothelial tumors (of the urinary bladder and ureters) Outline the different causes of hematuria 	2	Urinary bladder disease	2
Week 4	 Outline the etiology of Nodular prostatic hyperplasia Describe the gross and microscopic morphology of Nodular prostatic hyperplasia and outline its clinical Picture Discuss the pathogenesis, morphology and clinical features of prostatic adenocarcinoma Discuss the Dynamic role of PSA as a tumor marker for Prostatic adenocarcinoma 	1		
Week 5		2		

Week 6	 1- Causes of infertility in ovaries 2- Ovarian cysts and ovarian tumors 3- HPV infection, pap smear, cervical dysplasia (Bethesda System), cervical cancer 4- Pathology of vulva, vagina, uterus, fallopian tubes, placenta, benign and malignant neoplasms 5- Breast lump and benign versus malignant neoplasms, gynecomastia 	3	Disaeses of female reproductiv e system	2
Week 7	 Breast diseases, congenital anomalies, Fibrocystic diseases benign neoplasms, gynecomastia Pre-operative diagnosis Molecular classification and grading of breast tumors Histological types of breast cancer Delineate the variables that influence the prognosis of breast cancer 	3	Diseases of breast	2
Total				
1 1 1 1 1 1 1 1 1 1				

4. Pharmacology

Renal Systems

Weeks	Objectives	Theory/hr
1		
2	Pharmacology of Diuretics: Classes of diuretics, Mechanism and site of action. Clinical application, Adverse reactions of diuretics and Interaction with other drug classes.	
3	Chemotherapy of bladder cancer - Selection of the treatment modality according to the nature of the lesion - Effects and side effects of intra-vesical therapies - Actions, indications, side effects and contraindications of agents used in management of bladder cancer	1

4	Pharmacotherapy of prostatic disorders - Drugs used to control symptoms of benign prostatic hyperplasia (BPH) - Hormonal therapy of prostatic carcinoma (Androgen deprivation therapy) - Non hormonal therapy of prostatic carcinoma The role of the kidney in pharmacokinetics: - Understand the mechanism of renal excretion of drugs and their metabolites and the problems in drug handling that can occur if renal function is impaired	2
Total hours		4
Credits		0.26

reproductive system

Weeks	Objectives	Theory/hr
5	Pharmacotherapy of male infertility: 1. describe different classes of drugs used for management of male infertility 2. choose the optimum therapy for male infertility according to the cause 3. discuss the pharmacology of drugs used for male infertility Pharmacology of female infertility:	
	 controlled secretion of gonadotropins and its pharmacologicalmodulations GnRH agonists and antagonists: available agwnts , their sources and clinical applications 	
6	Hormonal contraception 1. Common indications and contraindications 2. Benefits versus risks 3. Mechanisms of actions and formulations available 4. Interactions with other drugs Different pharmaceutical forms	1
7	Chemotherapy of breast cancer	2

5. Microbiology

			A to improve a language of	
	1	Tongaranitar	Autoimmune basis of	1hr.
8			nephrotic syndrome	A AAA .
Renal	Nephrotic		1. Recall the immune basis	
Remai	Nopinone		of nephrotic syndrome.	
			2. Explain the regulation of	
And			the complement cascade.	
	syndrome		3. Explain the different	
			mechanism and types of	
Reproductive			immune mediated	
			nephropathies.	
			1.Epidemiology,etiology	
			and pathogenesis of	
			community-acquired and	1hr.
		Microbiology	hospital acquired UTIs	
	2		2. Virulence factors in the	
			causative organisms	
			3. Clinical predictors of	
			Recurrent UTIs in women	
		Immunity	Urethral and bladder	1hr.
			defenses	
			.1Recognize innate	
			immune response of lower	
			urinary tract against	
			infection***.	
			.2Recognize adaptive	
			immune response of lower	
			urinary tract against	
			infection***.	
			Microbiological	
			investigation of urinary	
		Microbiology		6 hr.
		Lab.	1. Identify the different	(2hr/3
			methods of obtaining urine	groups)
			for microbiological	
			investigation.	
			mvcsugamon.	

			2. Understand how to collect a midstream urine	
			specimen.	
			3. Understand the different	
		1	microbiological procedures	
		1	carried out urine	
			specimens.	
			4. Know how to interpret	
			urine culture report.	
			5. Understand the	
			microbiological culture	
			work up for investigation	
			of chronic urogenital	
			infections in men.	
			Schistosomiasis	
			1. Classify common	
			helminthes.	
			2. Identify the different	
	3	Parasitology	Schistosoma	1 hr.
			As trematodes (tissue	
			flukes) of clinical	
			importance and describe	
			the types of infections they	
			cause.	
			3. Describe the	
			epidemiology and	
			transmission of	
			Schistosoma spp.	
			4. Describe the	
			pathogenesis and clinical	
			manifestations of	
			Schistosoma infection.	
			5. Describe the diagnosis	
			management and	
			prevention of Schistosoma	
			infection.	
			Immune response of	
			parasites	

8 Renal And Reproductive	5		1. Role of T and B in cells in helminthes infection. 2. Effector cells in protozoal infections. 3. Cytokines and secreted cytotoxic molecules in helminth infection. 4. Immune pathological con-sequences of parasitic infections: hepatosplenomegaly and auto –immunity. Immune privilege organs 1. List immune privilege organs. 2. Describe the mechanisms in active and passive immune privilege. 3. Recall that sperms are antigenic. 4. Enumerate mechanisms by which sperm antigens gain access to immune system. 5. Describe the role of immune system in induction of infertility. 6. Recall the use of immunological methods in identification of infertility.	1 hr.
	5	Microbiology	An introduction to sexually transmitted infections 1.A broad understanding of the spectrum sexually transmitted microbiota and infections(STI)	1hr.

		2. Have a good knowledge of two STI which	
		contribute significantly to	
		tubal factor infertility	
		(Gonococcal and genital	
		Chlamydia infections)	
		3. Understand the female	
		urogenital	
		Microbiota and how	
		imbalance can results in	
		bacterial vaginosis.	
		4. Acquisition and	
		transmission of SDI.	
6	Microbiology	Human Papilloma virus 1. Types of HPV, and the association of high-risk types and Ca cervix. 2. Understanding the mode of transmission and risk factors for HPV. 3. HPV and cervical cancer. 4. Diagnosis 5. prevention - Vaccine	1hr.
7	Genetics	Genes involved in breast cancer and mutation screening	1 hr