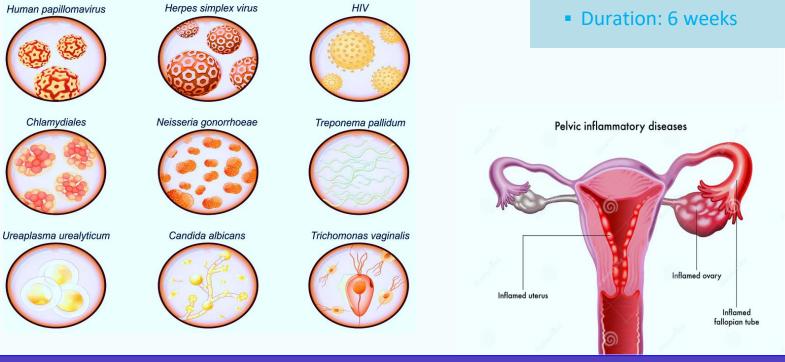
Study Guide- Fourth Year MBBS REPRODUCTIVE MODULE 2

• 03 April – 20 May 2023



Normal amount of red blood cells

Anemic amount of red blood cells

LIAQUAT NATIONAL HOSPITAL AND MEDICAL COLLEGE Institute for Postgraduate Medical Studies & Health Science



REPRODUCTIVE HEALTH

PPPY

REPRODUCT



STUDY GUIDE FOR REPRODUCTIVE 2 MODULE

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Module name: Reproductive System-II Year: Four

Duration: **6 weeks (April – May 2023)**

MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	• Dr. Tahira Yasmeen (Obstetrics & Gynecology)
CO-COORDINATORS:	Dr. Naila Parveen (Physiology)
	Dr. Afifa Tabassum (DHPE)

DEPARTMENT RESOURCE PERSONS

BASIC HEALTH SCIENCES	CLINICAL AND ANCILLARY DEPARTMENTS		
ANATOMY	ANAESTHESIA		
Professor Zia-ul-Islam	Professor Nighat Abbas		
COMMUNITY MEDICINE	OBSTETRICS & GYNECOLOGY		
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5			
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 Dr. Shaheena Akbani, Director A.A & R.T LNH&MC 			

INTRODUCTION

WHAT IS A STUDY GUIDE?

It is an aid to:

- Inform students how the student learning program of the module has been organized
- Help students organize and manage their studies throughout the module
- Guide students on assessment methods, rules, and regulations

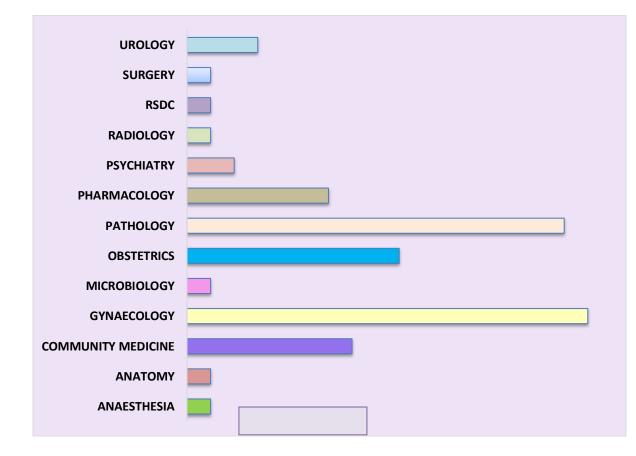
THE STUDY GUIDE:

- Communicates information on the organization and management of the module. This will help the student to contact the right person in case of any difficulty.
- defines the objectives which are expected to be achieved at the end of the module.
- identifies the learning strategies such as lectures, small group teachings, clinical skills, demonstrations, tutorials, and case-based learning that will be implemented to achieve the module objectives.
- provides a list of learning resources such as books; computer-assisted learning programs, weblinks, and journals, for students to consult to maximize their learning.
- Highlights information on the contribution of continuous on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's Achievement of objectives.
- focuses on information about examination policy, rules, and regulations.

INTEGRATED CURRICULUM comprises system-based modules such as Eye/ENT, Orthopedics, Dermatology, Genetics, and Reproductive System-II which links basic science knowledge to clinical problems. Integrated teaching means that subjects are presented as a meaningful whole. Students will be able to have a better understanding of basic sciences when they repeatedly learn clinical examples.

LEARNING EXPERIENCES: Case-based integrated discussions, Task-oriented learning followed by task presentation, skills acquisition in skills lab, computer-based assignments, and learning experiences in clinics, and wards.

INTEGRATING DISCIPLINES OF REPRODUCTIVE SYSTEM II MODULE



LEARNING METHODOLOGIES

The following teaching/learning methods are used to promote better understanding:

- Interactive Lectures
- Tutorial
- Case- Based Learning (CBL)
- Clinical Experiences
 - o Clinical Rotations
- Skills session
- Self-Directed Learning

INTERACTIVE LECTURES: In a large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

TUTORIAL: This format helps students to clarify concepts, and acquire skills or desired attitudes. Sessions are structured with the help of specific exercises such as patient cases, interviews, or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials, and self-study. The facilitator's role is to ask probing questions, summarize, or rephrase to help clarify concepts.

CASE-BASED LEARNING (CBL): A small group discussion format where learning is focused on a series of questions based on a clinical scenario. Students discuss and answer the questions by applying relevant knowledge gained previously in clinical and basic health sciences during the module and constructing new knowledge. The CBD will be provided by the concerned department.

CLINICAL LEARNING EXPERIENCES: In small groups, students observe patients with signs and symptoms in hospital wards, clinics, and outreach centers. This helps students to relate knowledge of basic and clinical sciences of the module and prepare for future practice.

 CLINICAL ROTATIONS: In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs & Gyne, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

SKILLS SESSION: Skills relevant to the respective module are observed and practiced where applicable in simulated-learning environments such as skills laboratory.

SELF-DIRECTED LEARNING: Students assume responsibilities for their learning through individual study, sharing and discussing with peers, and seeking information from Learning Resource Center, teachers, and resource persons within and outside the college. Students can utilize the time within the college's scheduled hours of self-study.

MODULE: REPRODUCTIVE 2

INTRODUCTION

Reproductive health (RH) is a state of complete physical, mental, and social well-being in all matters relating to the reproductive system. Reproductive Health is essential for peoples' overall well-being. Hence Reproductive health and specifically women's reproductive health is given prime importance at a global level.

Despite improvement in the reproductive health status of the population in Pakistan, it is much below the desired Sustainable Development Goal target level. The maternal mortality ratio (MMR) for Pakistan is 178 per 100,000 live births majority resulting from preventable causes related to pregnancy and childbirth. Maternal health and newborn health are closely linked. The reported perinatal mortality rate in Pakistan is 64 per 1,000 births.

This module will address common Maternal and child health issues including safe motherhood, contraception, abortion, Infant health care, Sexually Transmitted Diseases and HIV/AIDS, and infertility. It will also address the RH-related issues of men.

- 1. Bhutta ZA, Hafeez A, Rizvi A, Ali N, Khan A, Ahmad F, Bhutta S, Hazir T, Zaidi A, Jafarey SN. Reproductive, maternal, newborn, and child health in Pakistan: challenges and opportunities. The Lancet. 2013 Jun 28;381(9884):2207-18.
- WHO, UNICEF, UNFPA, World Bank Group, and the United Nations Population Division. Trends in Maternal Mortality: 2015 to 2017. Geneva, World Health Organization, 2017
- United Nations Population Division's World Population Prospects, 2016. Available from: https://data.worldbank.org/indicator/SP.DYN.IMRT.IN
- 4. Sheet WF. Maternal Mortality. World Health Organization webpage, World Health Organization. 2013;1.

MODULE OBJECTIVES AND STRATEGIES

By the end of the Reproductive 2 module students should be able to:

ANAESTHESIA

	OBJECTIVES	LEARNING STRATEGY	
Analgesia & Anesthesia in Obstetrics			
•	Describe analgesic techniques used in labor and cesarean delivery		
•	Describe different anesthetic options used in labor and cesarean delivery including the risks and benefits of general, spinal, & epidural anesthesia, pudendal nerve block, and narcotics	Interactive Lecture	

ANATOMY

	OBJECTIVES	LEARNING STRATEGY
Pelvis and Pelvimetry		
•	Describe the structure of the male and female genital tract	Interactive
•	Describe the gross anatomy of the female pelvic organs including the ovaries, uterine tubes, the uterus, broad ligament, and the vagina	Lecture/ Tutorial
•	Identify the different types of pelvis	

COMMUNITY MEDICINE

OBJECTIVES	LEARNING STRATEGY
1. Introduction to reproductive health	linte un etitore
Describe the components of reproductive health	Interactive Lecture
• Explain the approaches of health education related to reproductive health	Lecture
2. Maternal care	
Explain the determinants of maternal care	
Discuss high-risk pregnancies	
Describe Preventive measures for maternal mortality	Tutorial
3. Infant Care	
Discuss the risk factors for infant care	
Explain the components of infant care	

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• Discuss the role	of mother & of breastfeeding in infant care	
Describe the pre-	eventive measures for infant mortality	
4. Integrated Manag	gement of Neonatal & Childhood Illness (IMNCI)	
• Describe the co	mponents of IMNCI	
• Discuss the role	of community and family practice in IMNCI	
Explain the proc	cess of assessment of danger signs in IMNCI	
5. Family Planning		
Describe family	planning	
Explain method	s used in family planning	
List the common	n reasons for the unmet need for Family Planning (UMNFP)	
6. Reproductive Trac	ct Infections	
Classify reprodu	uctive tract infections	
Discuss the epic	demiology of Reproductive Tract Infections	
Discuss the sync	dromic management of reproductive tract infections	
Describe the pre-	eventive measures for HIV/AIDs	
Describe HIV/AI	DS control Programme in Pakistan	
7. Fertility determination	ants	
Differentiate be	etween fertility and fecundability	Interactive
Describe detern	ninants of fertility	lecture
Calculate the m	easures of fertility	

GYNAECOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Terminologies & definitions related to menstrual disorders (Amenorrhea, Oligomenorrhea, Menorrhagia, dysmenorrhea, dyspareunia)	
 Define primary & secondary amenorrhea, oligomenorrhea, menorrhagia, dysmenorrhea, dyspareunia, post-menopausal bleeding, post-coital bleeding, pre- menstrual syndrome 	
• Explain the etiology, symptoms, and signs, of primary and secondary amenorrhea, and oligomenorrhea	
 Differentiate among the three types of amenorrhea 	
Define primary & secondary dysmenorrhea	Interactive
• Interpret the investigation findings of clinical abnormalities of the menstrual cycle	Lecture
2. Bleeding PV and early pregnancy complications {Miscarriages, Ectopic pregnancy, and Gestational Trophoblastic diseases/ neoplasia (molar) GTD/GTN}	
 List the most common pregnancy complications 	
Define ectopic pregnancy	
Discuss the differential diagnosis of acute abdomen in women	
• Diagnose ectopic pregnancy, based on provided data (history, examination findings, investigation reports)	
Define abortion according to WHO criteria	

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• D	Differentiate among the various types of abortions based on data provided (history,	
e	xamination findings, investigation reports)	
•	Describe the treatment options for each type of abortion	
•	Discuss the definition, etiology, risk factors, and classification of GTN	
3.	Postpartum Care and puerperal disorders	_
•	Define puerperium	
•	Describe signs and symptoms, and management of normal and abnormal	
	puerperium, including puerperal pyrexia and puerperal sepsis	-
•	Recognize the risk factors for depression (postpartum blues) and the role of psychosocial support	
•	Identify the capacity of the mother to take care of her newborn	
4.	Lactation management and breast care	Interactive Lecture
•	Discuss the benefits & complications of breastfeeding for the baby, mother, family, and country	
•	Discuss the role of counseling by health care providers about breastfeeding at term	
•	Explain the significance of self-breast examination and clinical examination	
5.	Poly-Cystic Ovary Syndrome (PCOS)	
•	Interpret the hormone profile report for PCOS	
•	Discuss the etiology, pathophysiology, diagnosis, and management options for PCOS	
6.	Vulvovaginal infections (vaginal discharge)	
•	List the causes of vaginal discharge(candida, bacterial vaginosis, trichomoniasis)	
•	Differentiate between a normal vaginal discharge (Leucorrhea) and pathological vaginal discharge based on clinical history	
•	Describe symptoms, signs, investigations, and treatment options for vaginal discharge due to Candidiasis, Bacterial vaginosis, Trichomoniasis, Gonorrhea, and Chlamydia trachomatis infection	
•	Discuss steps of prevention and recurrence of vaginal discharge	
7.	Pelvic Inflammatory Disease (PID, STIs)	
•	Define Pelvic Inflammatory disease (PID)	Interactive
•	Diagnose PID based on symptoms, signs, and investigation findings	Lecture
•	Discuss the differential diagnosis of PID and its possible complications	
•	Discuss the management options for acute and chronic PID	
8.	Sexually transmitted diseases	
•	Explain the etiology of Sexually Transmitted Infections (STIs), Post delivery PID, Post-abortion PID, and post-surgical PID	
9.	UTI in Gynaecology (Cystitis, Lower Urinary Tract Symptoms)	
•	Based on the data provided, diagnose UTI in pregnant women	
•	Discuss the principles underlying their effective investigation and treatment	
10.	Infertility	Interactive
•	Define infertility and sub-fertility	Lecture/ Tutorial
•	Discuss the causes and relevant investigations of an-ovulation in women	rutorial

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•	Interpret the reports of Semen analysis in males and fertility-related hormone profiles in female	
11.	Benign tumors of the genital tract I (Ovarian cysts, Polyps, Fibroid)	
•	Describe the benign tumors of the female genital tract	
•	Differentiate among the various types of ovarian cysts, polyps & fibroids based on	Interactive Lecture
	their etiology, symptoms, signs, and pathophysiology	Lecture
•	Justify the selection of investigations for ovarian cysts, polyps & fibroid uterus	
12.	Gynecological Investigations	
•	Describe the of the role of Hysteroscopy & Hystrosalpangiogram	
•	Interpret the lab investigation X-Rays & laparoscopic views of different disorders	
•	Identify the hard and soft copy views of X-rays and contrast X-rays	Tutorial
•	Identify the laparoscopic views of an adnexal mass, ruptured and un-ruptured ectopic pregnancy, PID and TO mass, endometriosis, and pelvic adhesions	Tutoriai
•	Identify the hysteroscopy views (endometrial polyp, normal uterine cavity, sub mucus fibroid, septate uterus) including Colposcopy views of the cervix	
13.	Public health issues related to reproductive health	
•	Discuss the maternal health situation in Pakistan	
•	Discuss the important causes of maternal mortality and morbidity	
•	Describe maternal health services	
•	Describe the levels of obstetric care including obstetric first aid, basic EmNOC,	
	comprehensive EmNOC	Interactive
•	List the basic steps of counseling in reproductive health, with emphasis on family planning	Lecture
•	Discuss the role of contraception in population dynamics	-
14.	Family planning (contraceptive) methods	-
•	Describe the commonly used methods of family planning, and their indications	-
•	Explain the significance of contraceptive methods	
15.	History taking & procedure	-
	Take an obstetrical history	-
	Take a gynecological history	-
	History taking	_
Ins	truments in Gynecology	-
•	Identify the following instruments:	-
	i. Cusco speculum	Skills
	ii. Sims speculum	session/
	iii. Ayers spatula	tutorial
	iv. Instruments of DNC & MVA	
	v. Forceps & Vacuum	
•	Discuss their uses, indications and contraindications, and complications	
	Investigations in Gynae: Hysteroscopic X-Rays & Laparoscopic views of different orders	
•	Identify the hard and soft copy views of:	
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i.	X-rays and contrast X-rays
ii.	Laparoscopic views (adnexal mass, ruptured and unruptured ectopic pregnancy, PID and TO mass, endometriosis, pelvic adhesions),
iii.	Hysteroscopic views (endometrial polyp, normal uterine cavity, submucous fibroid, septate uterus) including Colposcopic views of the cervix

MICROBIOLOGY

OBJECTIVES	LEARNING STRATEGY
Sexually Transmitted Infections (STI)	
Define STI	
List the important microorganisms causing STI	
• Discuss the risk factors, pathophysiology, morphology, and clinical presentation of STIs	
• Discuss in detail the pathophysiology, clinical manifestation, laboratory diagnosi and treatment of:	s, Interactive Lecture/
i. CMV	
ii. Chlamydial infection	
iii. Syphilis (Treponema pallidum)	
Briefly discuss the role of HIV as a sexually transmitted infection	

OBSTETRICS

OBJECTIVES	LEARNING STRATEGY
1. Antenatal care & Assessment	
• Explain the importance of routine prenatal laboratory investigations, prenatal diagnostic options (IPS, Quad screen, amniocentesis, CVS), and fetal ultrasound assessment	
• Explain the process/schedule of antenatal care and investigations (GDM screening, Rh prophylaxis, GBS screening, term cervical assessment) and its importance in ensuring maternal health and normal fetal growth and well-being	Tutorial
2. Antenatal investigation	
Explain the importance and process of antenatal care and investigations	
• Interpret Rh prophylaxis, GBS screening, and term cervical assessment to ensure maternal health and normal fetal growth and well being	
3. Normal Labor	
Define labor	
Explain the stages of normal labor	
Describe the basic mechanisms of labor evaluation	
Describe the seven cardinal movements of labor	
• Explain the technique of delivery, traction, and handling of the infant after delivery	
Define Partogram and CTG	
• List the uses of partograph and CTG in the management of normal labor	
Interpret the result of the program	
4. Anemia in pregnancy	
Discuss the causes, signs and symptoms, and investigations of anemia in	Interactive
pregnancy	Interactive Lecture
Outline the management plan of Anemia in pregnancy	Lecture
• Explain the complications of anemia in pregnancy and its effects of anemia on maternal and fetal outcome	
5. Preterm Labor	
Differentiate between Threatened preterm labor, Preterm pre-labor rupture of membranes, and preterm labor	
• Discuss the clinical features, diagnosis, and management of preterm labor and preterm pre-labor rupture of membranes	
• Appraise the principles of diagnosis and management of Threatened preterm labor, Preterm pre-labor rupture of membranes, and Preterm labor	
List the causes of IUD	
6. Abnormal Labor-I (Fetal mal-presentation and malposition)	

- Define mal-presentation & malposition
- List the different types of mal-presentation & malposition
- Describe the causes of Breech, Transverse lie, and other mal-presentations and mal-positions
- Describe the management options for mal-presentation and malposition

7. Abnormal Labor-II (Obstructed Labor)

- Define obstructed labor
- List the main causes of obstructed labor
- Describe how each cause contributes to the development of this complication
- Describe the clinical signs of obstructed labor and the common maternal and fetal complications that result from uterine obstruction
- Describe the management of obstructed labor
- 8. Induction of Labor
- Define induction and augmentation of labor
- Explain indications, contraindications, advantages, and disadvantages of induction and augmentation of labor
- Discuss the monitoring and management of induced and augmented labor
- Discuss the management of abnormal partograph and CTG.

9. Instruments related to obstetrics

- Identify the following instruments:
- i. Instruments of C/section
- ii. Outlet forceps
- iii. Vacuum
- iv. Episiotomy scissors
- v. Fetoscope
- Discuss their uses, indications and contraindications, and complications

PATHOLOGY

	OBJECTIVES	LEARNING STRATEGY
1.	Congenital anomalies of the female and male genital tract; Epididymo-orchitis	
•	Describe the various congenital anomalies of the female genital tract with their important salient features	
•	Discuss developmental abnormalities and related features of the hypospadias, Epispadias, phimosis & Cryptorchidism.	Interactive Lecture/
•	Discuss the microorganism, pathogenesis, and morphology of specific and non- specific types of epididymal-orchitis	Tutorial
2.	Infectious agents causing genital ulcer disease	
•	List the important microorganism causing genital ulcer disease	

Tutorial

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		QUAT NATIONAL MEDICAL COLLEGE 4 ^{aa} TEAR MBDS REPRODUCTION	
 i. HSV 2 infection ii. HPV infection iii. HPV infection 3. Infectious agents causing vaginitis iiis the important microorganisms causing vaginitis Briefly discuss candida infections Discuss in detail the important properties, pathophysiology, clinical manifestation, diagnosis, treatment, and prevention of: i. Trichomonas vaginalis infection ii. Gardnerella vaginalis infection ii. Gardnerella vaginalis infection Define Pelvic Inflammatory Disease (PID) Define Pelvic Inflammatory Disease (PID) Define Pelvic Inflammatory Disease List the important microorganisms causing cervicitis and PID Discuss the risk factors, pathophysiology, morphology and clinical presentation, and complications of PID Discuss the role of Staphylococcus in causing toxic shock syndrome Discuss the role of Staphylococus in causing toxic shock syndrome Discuss the morphology, pathogenesis, and clinical presentation of Bartholin cyst, Lichen Sclerosis, Squamous Cell Hyperplasia, Condyloma Acuminatum, Papillary Hidradenoma, Extramammary Paget Disease, Vulvar Intraepithelial Neoplasia, vulvar carcinoma Discuss the pathogenesis and morphology of Vaginal Intraepithelial Neoplasia, vulvar carcinoma, Embryonal rhabdomyosarcoma Discuss the infections of the cervix including acute & chronic cervicitis and Endocervical Polyps Discuss the risk factors, pathogenesis, and morphology of cervical intraepithelial lesions and cervical carcinoma Elaborate on the role of HPV in cervical cancer, Discuss the risk factors, pathogenesis, and morphology of cervical intraepithelial lesions and cervical screening methods and pap smear Elaborate on the role of HPV in ce	•		
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	•	Define dysfunctional uterine bleeding (DUB)]
	•	Classify abnormal uterine bleeding according to age group and etiology	1
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uterine bleeding and the Anovulatory Cycle			
 Discuss the etiology, pathogenesis, morphology, and clinical features of acute and 	•		1
chronic Endometritis, Endometriosis and Adenomyosis and Endometrial Polyps			
	•	Classify Endometrial hyperplasia	1

LIAQ	UAT NATIONAL MEDICAL COLLEGE 4 TH YEAR MBBS REPRODUCTIV	/E MODULE 2
•	Discuss the etiology, pathogenesis, morphology, and clinical features of	
	Endometrial hyperplasia	
8.	Tumors of Uterine corpus (Benign and Malignant endometrial tumors)	
•	Classify tumors of the uterus/endometrium	
•	Discuss the etiology, pathogenesis, morphology, and clinical features of	
	Carcinoma of the Endometrium, Tumors of Endometrial Stroma & mixed Mullerian	
	tumors.	
9.	Non-neoplastic cysts and functional cysts of the ovary and Poly Cystic Ovaries	
•	Discuss the follicular and luteal cysts, and their morphology	
•	Define Polycystic Ovaries (PCOs)	
•	Discuss its etiology, pathogenesis, morphology, and complications	
10.	Ovarian Tumors - I (Tumors of ovary & fallopian tube)	
•	Classify Ovarian tumors	
•	Discuss the etiology, pathogenesis, morphology, and clinical features of Serous	
	tumors, Mucinous tumors, Endometriosis tumors, Clear cell tumors, Transitional	
	cell tumors, Adenosarcoma and Malignant mixed Müllerian tumor, and tumors of	
	the fallopian tube	
11.	Ovarian Tumors – II	Interactive
•	Discuss the etiology, pathogenesis, morphology, and clinical features of Sex Cord-	Lecture/ Tutorial
	Stromal Tumors, Teratoma, Dysgerminoma, Yolk sac tumors, Mixed germ cell	
	tumors, and Metastatic Cancer	
12.	Testicular Tumors	
•	Classify testicular tumors	
•	Discuss the etiology, pathogenesis, morphology, and clinical features of various	
	types of testicular cancer	
13.	Early and late disorders of Pregnancy/ Placenta; pre-eclampsia & eclampsia	
•	Discuss the etiology, pathogenesis, morphology, and clinical features of	
	Spontaneous abortion, Ectopic pregnancy, Twin Placenta, Abnormalities of	Interactive
	placental insertion, and the disorders of the placenta viz. Placenta Previa,	Lecture
	Placental Abruption, Placental Insufficiency, Placental Infarcts, Placenta Accreta,	
	Placental infection, Preeclampsia, and eclampsia	
14.	Gestational Trophoblastic Diseases	
•	Discuss the etiology, pathogenesis, and morphology of hydatiform mole including	Interactive Lecture
	complete, partial, and invasive mole	
•	Explain the pathogenesis and morphology of choriocarcinoma and placental site	
	trophoblastic tumor	
15.	Non-proliferative & proliferative breast diseases	Interactive
•	Name non-proliferative and proliferative breast lesions	Lecture

•	Discuss the etiology, pathogenesis, morphology, and clinical features of all non- proliferative and proliferative breast diseases including mastitis, duct ectasia, fat necrosis, fibrocystic change, proliferative breast lesions with and without atypia	
16.	Tumors of the breast	
•	Classify Breast tumors	
•	Discuss the etiology, risk factors, pathogenesis, morphology, molecular profile, and clinical features of various types of breast cancer	Interactive Lecture/ Tutorial
•	Discuss risk factors, pathogenesis, morphology, and clinical features of stromal tumors of the breast (Fibroadenoma, Phylloides)	

PHARMACOLOGY

	OBJECTIVES	LEARNING STRATEGY
1.	Androgens & Anti-androgens	
•	Discuss classification of Androgens & Anti-androgens with their basic & clinical pharmacology of these agents	Interactive Lecture/
•	Explain the clinical importance of Androgen and Anti-androgens with their basic and clinical pharmacology	Tutorial
2.	Estrogens & Anti-estrogens	
•	Discuss the classification of estrogens & anti-estrogens	
٠	Explain the basic & clinical pharmacology of these agents	Tutorial
3.	Progestin's & Anti-progestin's	Tutonai
•	Discuss the classification of Progestin, Anti-progestin	
٠	Explain the basic & clinical pharmacology of these agents	
4.	Drugs used in pregnancy &lactation	Case-Based
•	Discuss the contraindicated and safer drugs in pregnancy & lactation	learning
5.	Contraceptive Drugs	
•	Discuss the classification, kinetics, and dynamics of different hormonal contraceptive drugs	Interactive
•	Explain the clinical importance of Contraceptive Preparations	Lecture
6.	Effects of different drugs on the rat uterus	Tutorial
•	Observe the effects of the drug Oxytocin on a rat uterus by using a power lab	Tutorial

PSYCHIATRY

	OBJECTIVES	LEARNING STRATEGY
1.	Management of male & female sexual and reproductive dysfunction	
•	Describe the psychosocial issues associated with infertility	
٠	Describe ethical issues confronted by patients with infertility	Interactive
2.	Sexual and domestic violence	Lecture
•	List characteristics of people at increased risk for sexual assault	
•	Describe the medical and psychosocial management of a victim of sexual assault	

RADIOLOGY

	OBJECTIVES	LEARNING STRATEGY	
Role o	Role of ultrasound		
Describe the role of			
i.	Ultrasound for the evaluation and diagnosis of different disorders in Gynae/Obs	linto vo otivio	
ii.	Point of care ultrasound (POCUS) in Gynae and Obs	Interactive Lecture	
iii.	Doppler ultrasound in Gynae and Obs including antepartum fetal surveillance in the normal and high-risk pregnancy & evaluation of fetal growth restriction	Lecture	

RESEARCH & SKILLS DEVELOPMENT CENTER

OBJECTIVES	LEARNING STRATEGY
 Demonstrate the procedure of taking a pap smear 	Skills session

SURGERY

OBJECTIVES	LEARNING STRATEGY
Tumors of breast	
Discuss the clinical presentation of benign and malignant breast tumors	Interactive Lecture

UROLOGY

	OBJECTIVES	LEARNING STRATEGY
1.	STIs in the male genital tract; including epididymitis, orchitis, prostatitis	
•	Describe the etiology, pathophysiology, symptoms and signs, investigations, and treatment plan for STIs in males (viz. Epididymitis, orchitis, prostatitis gonorrhea, non-specific urethritis, genital herpes, genital warts, syphilis, HIV)	
2.	Male sexual dysfunction	
•	Explain the anatomy and physiology of penile erection	
•	Classify the causes of erectile dysfunction	
•	Discuss the various investigations for diagnosis of erectile dysfunction	Interactive
•	Discuss the treatment options for Erectile dysfunction including penile implant	Lecture
3.	Male Infertility	Lecture
•	Define infertility	
•	Describe the stages of spermatogenesis and fertilization	
•	List the causes of male infertility	
•	Discuss steps of evaluation of male infertility including history, examination, and investigations	
•	Describe the treatment options for the common conditions causing male infertility	

Apart from attending daily scheduled sessions, students too should engage in self-study to ensure that all the objectives are covered



LEARNING RESOURCES

SUBJECT	RESOURCES
ANATOMY COMMUNITY MEDICINE	 A. <u>GROSS ANATOMY</u> K.L. Moore, Clinically Oriented Anatomy <u>EMBRYOLOGY</u> Keith L. Moore. The Developing Human Langman's Medical Embryology TEXTBOOKS Community Medicine by Parikh Community Medicine by M Ilyas
	3. Basic <i>Statistics</i> for the Health Sciences by Jan W Kuzma
OBSGYN	 Destetrics by Ten Teachers, Louise C. Kenny, Jenny E. Myers Gynecology by Ten Teachers, Louise Kenny, Helen Bickerstaff Hacker & Moore's Essentials of Obstetrics and Gynecology Textbook of Gynecology, Rashid Latif Khan Fundamentals of Gynaecology, Dr. Arshad Chohan
PATHOLOGY/MICROBIOLOGY	 TEXTBOOKS Robbins & Cotran, Pathologic Basis of Disease,9th edition. RapidReviewPathology,4th edition by Edward F. Goljan MD
	WEBSITES: 1. http://library.med.utah.edu/WebPath/webpath.html 2. http://www.pathologyatlas.ro/



ASSESSMENT METHODS:

- MCQs (Multiple Choice Questions)
- Objective Structured Practical/Clinical Examination (OSPE or OSCE)
- MCQs and unobserved OSPE will be conducted on LNH&MC Moodle platform.
- Observed OSPE will constitute multiple examiner-based stations.

Internal Evaluation

- Students will be assessed comprehensively through multiple methods.
- 20% marks of internal evaluation will be added to JSMU final exam. That 20% includes mid-module

& end of module examination, mid-term & pre-professional examination.

Formative Assessment

The individual department may hold a quiz or short answer questions to help students assess their learning.

The marks obtained are not included in the internal evaluation

For JSMU Examination Policy, please consult JSMU website

More than 75% attendance is needed to sit for the internal and final examinations



LNH&MC EXAMINATION RULES & REGULATIONS

- Students must report to the examination hall/venue, 30 minutes before the exam.
- The exam will begin sharply at the given time.
- No student will be allowed to enter the examination hall after 15 minutes of the scheduled examination time.
- Students must sit according to their roll numbers mentioned on the seats.
- Cell phones are strictly not allowed in the examination hall.
- If any student is found with a cell phone in any mode (silent, switched off, or on) he/she will not be allowed to continue their exam.
- No students will be allowed to sit in the exam without University Admit Card, LNMC
 College ID Card, and Lab Coat
- Indiscipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.

<u>SCHEDULE:</u>

WEEKS	4TH YEAR	MONTH
8 WEEKS	NEUROSCIENCES II MODULE	January 04, 2023
		February 6, 2023
6 WEEKS	REPRODUCTIVE II MODULE	April 03, 2023
		May 20, 2023
	MID TERM EXAMINATION	May 26, 2023
		May 27, 2023

