

Syllabus:

Introduction: Infertility affects 10 – 15% of population. It poses a lot of diagnostic and management challenges along with a social stigma as well. Today reproduction medicine is a well established subspecialty focusing on fertility promoting and assisted reproduction techniques.

The current curriculum of MD Obstetrics & Gynecology does not adequately cover infertility issue like assisted reproduction, embryology or minimally invasive surgery. Since most teaching institutes do not have adequate facilities to train postgraduates, there is an urgent need to initiate a reproductive medicine subspecialty certificate course/DM/MCh to enhance the capacity of postgraduates in the management of infertility. The syllabus will be covered under the following modules.

Module - 1

Basic science of Male & Female Genital Tract:

1. Normal & abnormal development, of female genital tract
2. Pathology of female genital tract
3. Overview of anatomy & physiology of male genital tract
4. Normal & abnormal endocrinology in relation to fertility
5. Physiological & neuro-endocrinal changes during puberty, adolescence, menstruation, ovulation, fertilization, climacteric & menopause

Module - 2

General overview of infertility and principles and planning of treatment:

1. Work up of infertile couple
2. Male factor infertility
3. Female factor infertility include ovulation factor, tubal factor, endometriosis
4. Infection in infertility
5. Immunology in infertility
6. Hormonal assessment in infertility
7. Genital tuberculosis

Module - 3

Ultrasound in infertility:

1. Base line scan
2. Follicular study
3. Doppler study
4. Endometrial evaluation
5. Uterine pathology like fibroid, adenomyosis
6. Other associated tubo ovarian disorder
7. Sono salpingo graphy

Module - 4

Endoscopy in infertility:

1. Principles & practices of diagnostic and operative laparoscopy for infertility
2. Principles & practices of diagnostic and operative hysteroscopy for infertility.

Module – 5

Andrology:

1. Basic semen analysis
2. Semen preparation techniques
3. Drugs in male infertility

Module – 6

Assisted Reproductive Technique:

1. Ovulation induction protocol
2. Intrauterine insemination
3. IVF & Embryo transfer
 - (a) Selection & preparation of cases for ART
 - (b) Counseling regarding various issues in ART
 - (c) Methods of oocyte retrieval and embryo transfer

Module – 7

IVF lab & Embryology:

1. Setting up ART centre
2. Media and disposables in IVF lab
3. Embryology – theory and practical
4. Gamete handling
5. Cryopreservation

Module – 8

Ethical/legal issues in infertility:

1. Consent forms
2. Third party gamete donation
3. Surrogacy
4. Adoption
5. Legal issues in infertility

Eligibility:

Educational Qualification: MD (Obs/Gyn)/ DNB (Obs/Gyn)/DGO (All must have UPMCI Registration)

Age: As per university senior resident norms.

Teaching of Certificate in Reproductive Medicine

1	Lecture (by Faculty)	Twice a month
2	Case Presentation (by Trainee)	Once a week/ four per month
3	Seminar(by Trainee)	Once a week/ four per month
4	Journal Club(by Trainee)	Twice a month
5	Grand Round	Once a week
6	Monthly Audit of ART procedure	Once a month
7	University Biostatistics Course	-
8	Attend State/National level infertility conference	One/Minimum
9	Participation in UG/PG teaching	-
	OPD Schedule	
	Infertility OPD Monday, Wednesday & Friday	3 times/week 9 – 12 Noon
	IVF OPD	Once a week Thursday 12 – 2 PM
	Emergency duty	Once a week in the Deptt. Of Ob/Gyn.

Skills for Certificate course in Reproductive Medicine

S No.	Skills	Observed	Assisted	Performed
1	Performing SSG		10	10
2	Trans Vaginal Ultrasonography			
a	Baseline Scan	20		20
b	Fellicular Study	20		20
c	Doppler studies of follicle & endometrium	20		20
d	Early pregnancy assesment	10		10
3	Endometrial Biopsy	20	20	20
4	IUI	10	20	20
5	Semen analysis	10	10	10
6	Semen Preparation	10	10	10
7	Ovum Pick up	5	5	2
8	Embryo transfer	5	5	2
9	Duagnostic/ Operative Laparoscopy for infertility assesment	5	5	2
10	Diagnostic/ Operative hysteroscopy for infertility assesment	5	5	2
11	Counseling Session for infertility couple	10	-	10
12	Filling up consent forms	10	-	10

PDCC in Gynecological Oncology, Department of Ob/Gynae KGMU, Lko

1. Basic Sciences:
 - a. Normal & abnormal development, structure and function of female urogenital system and female breast.
 - b. Applied anatomy of genito-urinary system, abdomen, pelvis, pelvic floor, anterior abdominal wall, upper thigh (inguinal ligament, inguinal canal, vulva, rectum and anal canal).
 - c. Endocrinology in relation to Gynae- Oncology.
 - d. Physiological & neuro-endocrinal changes during puberty, adolescence, menstruation, ovulation, fertilization, climacteric & menopause.
 - e. Pathophysiology of ovaries, fallopian tubes, uterus, cervix, vagina and external genitalia in healthy and diseased conditions.
 - f. Basics of research methodology.
2. Epidemiology, etiopathogenesis, screening, diagnosis, prevention & management of:
 - Pre invasive disease of cervix, vagina and vulva
 - Pre invasive disease of endometrium
 - Invasive Cervical Cancer.
 - Uterine cancer
 - Invasive cancer of vulva and vagina
 - Adenxal mass and early ovarian cancer.
 - Ovarian cancer
 - Fallopian tube cancer
 - Gestational trophoblastic neoplasia
 - Breast
3. Cancer in pregnancy
4. Principles of radiotherapy & chemotherapy in Gynecological malignancies. Administration & complications of Radiotherapy and Chemotherapy.
5. Tumor immunology, host defense mechanisms and biologic therapy
6. Genetics in relation to Gynaecological Cancer
7. Palliative Care and Quality of life in Gyneoncologic Cancers.
8. Role of Laparoscopic surgery in Gyneoncologic Cancer.

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