

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY
KGMU, LUCKNOW----UG Curriculum

PREAMBLE

The aim of Under graduate programme in Obstetrics & Gynaecology is to produce doctors who will contribute to improving health of women in India and reducing maternal and perinatal mortality and morbidity, which is the need of the hour. An undergraduate student in Dept. of Obstetrics & Gynaecology must have knowledge of anatomy, physiology, pharmacology and pathophysiology related to reproductive system. Thorough knowledge of physiology of normal pregnancy and its management & identification of abnormal pregnancy is essential. Basic neonatal care should be learnt. The curriculum of Department of Obstetrics & Gynaecology has been revised keeping in mind the recent advances & need felt in the field of Obstetrics & Gynaecology.

1. Specific Learning Objectives/ Course outcomes

At the end of the MBBS Course in Obstetrics & Gynaecology, the student should be able to:

- a) Provide quality care to the community in the Antenatal, Intra-natal and Post-natal period of normal pregnancies.
- b) Identify pregnancies at high risk and be able to triage and take decision for referral.
- c) Diagnose and manage common Obstetrical emergencies.
- d) Diagnose common gynecological problems and emergencies.
- e) Be proficient in counseling for Family Welfare options.
- f) Provide contraception as per requirement.
- g) Have knowledge and be able to implement 'National Health Programs' pertaining to Women's Health.
- h) Be well versed with preventive aspects in Obstetrics & Gynaecology.
- i) Properly maintain medical records and know the Medico legal aspects and acts in respect of Obstetrical & Gynaecological practice.
- j) Keep abreast with advances in the field of Obstetrics & Gynaecology.
- k) Be professional in his attitude towards patients & colleagues.
- l) Recognize importance of team work & work as team member or leader as the situation demands.

Modules for UG Teaching in Obstetrics and Gynaecology

- **Module 1** - Anatomy,physiology,embryology,development of genital tract, placenta,amniotic fluid
- **Module 2** - Basic Surgical Procedure
- **Module 3** – Antenatal Care
- **Module 4** - Normal labour, and delivery management
- **Module 5** – Abnormal labour and its management
- **Module 6** – Management of delivery (vaginal and instrumental delivery and caesarean section)
- **Module 7** - Normal and abnormal Puerperium
- **Module 8** - Common neonatal problems
- **Module 9** - Early pregnancy complications
- **Module 10** - High risk pregnancy and medical diseases during pregnancy
- **Module 11** - Contraception –MTP,PCPNDT Act
- **Module 12**-- Benign Gynaecological problems
- **Module 13** - Infertility
- **Module 14** - Infections of genital tract ST1,TB, RTI
- **Module 15** – Pelvic floor Problems
- **Module 16** - Gynaecological cancers
- **Module 17**- Clinical governance, research, AETCOM, national programmes, ethical legal issues
- **Module 18**- Basic clinical skills

MODULE - 1
Anatomy, Physiology, embryology, development of genital tract, placenta, amniotic fluid

Lectures

1. Anatomy of female genital tract (External and Internal genitalia).
2. Physiology of menstruation and abnormal menstruation including dysmenorrhoea.
3. Physiology of ovulation, fertilization and implantation.
4. Development & anomalies of female genital organs.
5. Conception, implantation, development of placenta and establishment of fetomaternal circulation.
6. Placenta and Amniotic fluid – structure, function and abnormalities.
7. Fetal growth, development and fetal circulation.
8. Maternal changes during pregnancy.
9. Anatomy of female pelvis and female diameters.
10. Physiology and mechanism of normal labour.

Clinical Teaching / Demonstration

1. Specimens (Obst & Gyne)

MODULE - 2

Basic Surgical Procedure

Lectures

1. Basics uterine and adnexal surgeries.
2. Newer Surgical techniques – Endoscopic surgery (Laparoscopy and Hysteroscopy),
Tubal recanalisation.

Clinical Teaching/Demonstration

- 1 Minor O.T. procedure (with instruments) e.g. D &C, EB, Cx Biopsy, Electrocautery,
Tubal Patency tests.
- 2 Colposcopy.
- 3 USG
- 4 Major Gynaec Operation (Hysterectomy, Ovarian & Tubal Operations).

MODULE – 3

Antenatal Care

Lectures

1. Sign, symptoms and d/d of pregnancy, confirmation of pregnancy. Various definition and terminology in Obstetrics and their significances (LMP, EDD, Parity, Gravida, Term, Preterm, Postterm, IUGR, LBW etc.).
2. Examination of a pregnant woman and Antenatal care.
3. Nutrition during pregnancy and Drugs in pregnancy.
4. Fetal monitoring.
5. Importance of Genetics in Clinical Obstetrics.

Clinical Teaching/Demonstration

1. Abdominal examination in Obstetric patients.
2. NST

MODULE - 4

Normal labor & delivery Management

Lectures

1. Management of 1st and 2nd stage of labour.
2. Physiology and management of 3rd stage of labour and prophylaxis of PPH.
3. Neonatal resuscitation and management of new born .

Clinical Teaching/Demonstration

- 1 Stages of Labour
- 2 Passage – Bony Pelvis (Normal & abnormal) and soft parts of pelvis.
- 3 Passenger – Fetal diameters, attitude and mechanism of normal labour .
- 4 Techniques of PPH prevention (AMTSL) and management.
- 5 Normal Labour
- 6 Episiotomy
- 6 Neonatal Resuscitation.

MODULE - 5

Abnormal labor & its Management

Lectures

1. Occipitoposterior position, face & brow presentation.
2. Breech Presentation.
3. Transverse Lie, cord prolapse and compound presentation.
4. Abnormal pelvis and trial of Labour.
5. Prolonged & obstructed labour, Rupture uterus.
6. Obst injuries to birth canal. destructive procedures

Clinical Teaching/Demonstration

1. Sign of Obstructed labour.
2. Mechanism of labour in Breech presentation & version.
3. Occipitoposterior presentation and Deep transverse arrest (forceps in occipitoposterior).
4. Face & Brow presentation, Compound presentation Transverse lie and cord prolapse.
5. Breech & minor Obstetric Trauma.

MODULE - 6

Management of delivery (vaginal and instrumental delivery and cesarean section)

Lectures

1. Cesarean steps & Indications.
2. Lower Segment Vs Upper Segment Cesarean

Clinical Teaching/Demonstration

1. Forceps application
2. Ventouse applications.
3. Destructive operations (Craniotomy in detail).

MODULE - 7

Normal and Abnormal Puerperium

Lectures

1. Normal puerperium and breast feeding.
2. Puerperal sepsis and other Puerperal problems.
3. PPH & Post Partum collapse, MRP and Obst. Shock, Inversion uterus.

Clinical Teaching/Demonstration

1. PPH Management

MODULE - 8

Common neonatal problems

Lectures

1. Birth trauma and other congenital malformations, perinatal mortality.
2. Asphyxia neonatorum, Icterus neonatorum and Neonatal Infections.
3. Premature, dysmature and postmature babies.

MODULE - 9

Early pregnancy complications

Lectures

1. Threatened, inevitable, incomplete & missed abortions.
2. Ectopic pregnancy – types, pathophysiology & causes, management (medical, surgical & expectant).
3. Recurrent abortions including incompetent OS.
4. Septic abortion.
5. Vesicular mole.

MODULE - 10

High risk pregnancy & Medical diseases during pregnancy

Topics

1. Placenta previa.
2. Accidental haemorrhage.
3. Preterm labor & P PROM .
4. Post dated pregnancy and Induction of labor.
5. Fetal distress & meconium stained liquor .
6. Hypertensive disorders of pregnancy.
7. Eclampsia.
8. Pregnancy with anemia.
9. Pregnancy with diabetes .
10. Pregnancy with heart disease.
11. Pregnancy with Rh incompatibility.
12. FGR (Fetal Growth Restriction).
13. Multiple pregnancy.
14. Hydramnios & oligohydramnios.
15. Pregnancy with infections (Hepatitis , Malaria, Tuberculosis, Chicken pox, Resp. tract infections, UTI)
16. Preg. with Thyroid disorder, Preg. with Obesity, Preg. with Seizure disorders, Preg. with renal disease .
17. Pregnancy with HIV infection.

Skills

1. Amnio infusion
2. Intra uterine transfusion
3. Doppler -MCA,PSV measurement.
4. Detailed Obstructive ANC USG with Doppler.
5. Amnio centesis
6. CVS

MODULE - 11

Contraception – MTP, PCPNDT Act

Lectures

1. Family planning & contraception – Overview, natural methods & barrier contraception.
2. Hormonal contraception and emergency contraception.
3. Intrauterine contraceptive devices
4. Postpartum contraception.
5. MTP – Indications & MTP Act.
6. MTP – methods (Medical & Surgical).
7. Tubal Ligation.

Clinical Teaching / Demonstration

1. Post Partum Contraception.
2. Family Planning (oral, Injectable IUCD & Permanent methods), MTP (1st & 2nd Trimesters).
3. LAM.

MODULE -12

Benign Gynecological problems

Topics:

1. Adolescence & its common problems.
2. Fibromyoma uterus.
3. Endometriosis & adenomyosis.
4. Cervical cancer screening programme & colposcopy , CIN and its management
5. Benign ovarian neoplasms I.
6. Benign diseases of vagina.
7. Benign diseases of vulva.
8. Menopause – problem & management.
9. Primary amenorrhoea, secondary amenorrhoea and intersex.
10. Abnormal uterine bleeding, diagnosis and management of AUB.
11. PCOS

Skills:-

- 1 VIA/VILI
- 2 Colposcopy
- 3 Cryocautery
- 4 LEEP
- 5 Hymenectomy
- 6 Hysteroscopy
- 7 Basic Laparoscopy skills
- 8 Gynae USG
- 9 Ovarian cystectomy.

MODULE - 13
Infertility- Basic

Lectures

1. Definition & causes of Infertility.
2. Workup of an infertile couple.
3. Male infertility.

MODULE - 14

Infections of Genital tract – STI, TB, RTI

Lectures

1. Normal & abnormal vaginal discharge, cervicitis & cervical ectopy.
2. Pelvic infections and Sexually transmitted infections.
3. Genital tuberculosis.

Clinical Teaching/Demonstration

1. Vaginal discharge

MODULE - 15

Pelvic floor problems & Urogynecology

Topics

1. Prolapse uterus – examination , diagnosis and management.
2. Vesicovaginal fistulae.
3. Rectovaginal Fistula.
4. Urinary in continence

Skills

1. Management of decubitus ulcer before prolapse Surgery.
2. POPQ
3. Swab test
4. Cystoscopy
5. Operation for urinary incontinence
6. Repair of genital fistulas
7. Repair of complete perineal tear.
8. Vaginal hysterectomy
9. Vaginal reconstructive surgery.

MODULE - 16

Gynecological Cancers

Topics

1. Cancer cervix- sign/symptoms & diagnosis and management
2. Malignant ovarian neoplasms .
3. Cancer uterus.
4. Choriocarcinoma.
5. Malignant diseases of vagina
6. Malignant diseases of vulva

Skills --

- 1 FNAC
- 2 Trucut biopsy
- 3 Paracentesis
- 4 Wertheims hysterectomy
- 5 Staging Laparotomy

MODULE - 17

Clinical governance, research, AETCOM, national programmes, ethical legal issues

Topics

1. Evidence based best practices in Obst & Gynae (e.g. episiotomy, anemia, partogram, antibiotics in labor).
2. National and state level programs in MCH.
(National Anemia Control Programme, RCH, NRHM and NUHM, Janani Suraksha Yojna, National Family Program).
3. Maternal & perinatal mortality.
4. National & international guidelines.
5. Public awareness programmes related to adolescent health, menopause, GDM, cancer screening & prevention, contraception, anaemia, breast feeding.
6. Consumer forum, RTI.
7. Ethical issues related to --(1) sexual offence (2) Infertility management, consent taking for donor semen/donor Oocyte / Surrogacy / research.

MODULE - 18

Basic Clinical Skills

1. Infection prevention.
2. Counseling & communication skill in Obs/Gyn,
3. Calculation of EDD & POG.
4. Abdominal examination in Obstetric patient.
5. DFMC
6. NST
7. Clinical pelvic assessment in Obstetric patients.
8. MagSulf of Eclampsia patients.
9. Monitoring of Eclampsia patients.
10. Drug management of PPH.
11. AMTSL
12. Episiotomy Suturing
13. Counselling at time of discharge (e.g. anencephaly fetus, GDM patient, hypertensive patient).
14. MVA
15. Clinical signs of Rupture uterus
16. Gynaecological P/S & P/V examination.
17. Papsmear
18. VIA & VILI
19. PPIUCD insertion
20. Consent for Lap Ligation
21. Blood Transfusion and monitoring
22. Consent for patient with low general condition