

DEPARTMENT OF OBSTETRIC & GYNAECOLOGY

UNITS

HRH: OBSTETRIC & GYNAECOLOGY

HRH 400 OVERVIEW OF OBSTETRICS AND PHYSIOLOGY OF PREGNANCY

Vital statistics (maternal health, maternal morbidity and mortality (prevalence, incidence, causes, prevention), perinatal morbidity and mortality, maternal and perinatal clinical audits), organization of obstetric care in Kenya pregnancy overview, organization and diagnosis. Endometrium and decidua; fetal growth and development (fertilization, zygote, embryo and fetus), maternal adaptations to pregnancy. Physiological changes in pregnancy,

HRH 401 ANTEPARTUM MANAGEMENT, NORMAL LABOUR AND DELIVERY

Preconception care, prenatal care/focused antenatal care, pelvimetry, parturition mechanisms of normal labour, conduct of normal labour and delivery, intrapartum assessment, obstetric analgesia and anesthesia, **active management of third stage (AMTSL)**, assessment and care of the newborn infant, normal and abnormal puerperium, breastfeeding and lactation management, labour monitoring (Partograph) special pregnancies (teenage, elderly, disabled etc).

HRH 402 ABNORMAL LABOUR AND DELIVERY AND OPERATIVE OBSTETRICS

Dystocia: Abnormal labour and Fetopelvic disproportion; abnormal presentation, malposition. **Unsatisfactory progress of labour, prolonged second stage Obstructed labour and ruptured uterus.** Induction-indications, **bishop score methods** and augmentation of labour. Operative obstetrics: **Episiotomy**, Forceps and vacuum delivery; breech delivery, caesarian section; subtotal hysterectomy, **symphysiotomy, Destructive vaginal procedures, Fetal distress, Cord prolapsed Shoulder dystocia, VBAC, PPH, Postpartum collapse.**

HRH 403 COMMON COMPLICATIONS OF PREGNANCY

Hypertensive diseases in pregnancy, Pre-eclampsia and **Eclampsia Antepartum** hemorrhage, and preterm birth (**labour**) **PROM**, post term pregnancy, fetal growth disorders, and multiple pregnancies. **Rhesus isoimmunization, deep venous thrombosis**, intrauterine fetal demise, puerperal sepsis.

HRH 404 DISORDERS OF THE PLACENTA AND FETAL MEMBRANES

Abnormalities of the placenta, cord and the fetal membranes. Amniotic fluid: formation and disorders: polyhydramnios and oligohydramnios. Abnormally adherent placenta, Gestational trophoblastic diseases.

- HRH 405 MEDICAL AND SURGICAL COMPLICATIONS IN PREGNANCY**
- Cardiovascular diseases, renal and urinary tract disorders, diabetes mellitus, sexually transmitted infections, anemia, dermatological disorders; **tropical infections in pregnancy e.g. malaria, thyroid disorders, epilepsy, respiratory disorders in pregnancy. Acute abdomen in pregnancy, trauma in pregnancy**
- HRH 406 OBSTETRIC ANATOMY AND REPRODUCTIVE PHYSIOLOGY**
(Formerly HRH 407)
- This unit comes first.** Anatomy of male and female reproductive organs; **Anatomy of the female pelvis, anatomy of the fetal skull**, the menstrual cycle, spermatogenesis, oogenesis the sex hormones, hormone therapy, puberty and menopause.
- HRH 407 ACQUIRED AND INHERITED GYNECOLOGICAL DISORDERS**
- Congenital abnormalities of the reproductive system, Genital fistulae, management and types of **urinary** incontinence; fistula surgery, genital prolapsed. Endometriosis and adenomyosis, uterine fibroids, benign tumors of the ovary, abnormal uterine bleeding
- HRH 408 REPRODUCTIVE TRACT INFECTIONS (Formerly HRH 410)**
- Sexually transmitted infections, syndrome management and Urinary tract infections.
Pelvic inflammatory disorders and pelvic abscess, vaginitis and vulva **vaginitis**, cervicitis, Genital tuberculosis.
- HRH 409 GYNECOLOGICAL MALIGNANCY**
- Premalignant and malignant lesions of the vulva, vagina and cervix, malignant Tumours of the uterus, fallopian tubes and the ovaries.
Principles of Radiotherapy and chemotherapy- Prevention of gynaecological malignancies.
- HRH 410: INFERTILITY AND ABORTION MANAGEMENT**
- Abortions (causes, types and management): **Post abortion care**. Ectopic gestation including abdominal pregnancy. Infertility: causes, consequences and management.
- HRH 411 CONTRACEPTION AND STERILIZATION**
- Medical eligibility criteria (MEC), Hormonal contraceptives, intrauterine devices, male and female sterilization, barrier methods, traditional methods, **emergency contraception**, population dynamics. Contraceptives for special groups e.g. HIV, breastfeeding, Health Benefits.
- HRH 412 GYNECOLOGICAL OPERATIONS**
- Preoperative and postoperative care, infection prevention. Dilatation of the cervix, evacuation, **bartholins** glands operation. Minimal access surgery:

laparotomy, Colposcopy. Hysterectomy: indications, procedures and complications. **Myomectomy, cerclage, MVA.**

- HRH 413 TECHNIQUES USED TO ASSESS FETAL HEALTH**
Ultrasonography and Doppler; Antepartum assessment, amniocentesis, foetal kickchart, intrapartum foetal assessment

8 Clinical Clerkship Units (conducted in Hospital)

- HRH 414 PRINCIPLES OF FOCUSED ANTENATAL CARE AND ORGANIZATION OF ANTENATAL CLINIC**
Management of medical conditions, management of antenatal Obstetric complications, management of other pregnancy complications, ABO and Rhesus incompatibility. The antenatal care of women and investigations. The physical examination of pregnant women during varies developmental stages of pregnancy.

Introduction to PMTC, implementation of comprehensive ANC services, optimal management of women in labour and delivery, postpartum management of women and infants, specific interventions for PMTCT and family planning, preconception care, ANC care, ART prophylaxis / therapy, labour and delivery, postnatal care of the mother, neonatal care, family planning, communication and counseling, couple counseling and family dynamics.

- HRH 415 PRINCIPLES OF OBSTETRICS EXAMINATION AND CONDUCT OF LABOUR**
Practical use of partogram in labour management, management of 1st & 2nd stage of labour, active management of 3rd stage of labour (AMTSL), expectant management to prevent and manage post-partum hemorrhage. Training on use of vacuum to conduct delivery, repair of episiotomy and perineal tears, use of intrapartum analgesia, use of uterotonics in induction of labour, use of oxytocin in augmentation of labour, of magnesium sulphate in management of severe preeclampsia and eclampsia, insulin in management of diabetes in labour, management of cardiac patients in labour, Averting maternal death.

- HRH 416: OPERATIVE OBSTETRICS**
Preoperative care, Emergency and elective cesarean sections, manual removal of placenta, management of ruptured uterus, performing hysterectomy, insertion of Mac Donald stitch. Organization of a maternity theatre and principals of theater conduct.

- HRH 417: PRINCIPLES OF POSTNATAL CARE**
Breast-feeding and lactation management, prevention and management of breast complications, management of 4th stage labour, immediate and remote puerperium, puerperal sepsis prevention management, contraception, post-partum bilateral tubal ligations, management of deep venous thrombosis.

HRH 418 THE PRACTICE OF CONTRACEPTION AND FAMILY PLANNING

Organization of a family planning clinic. Contraceptive commodity security. Classification of methods of contraception, indications, side effects, medical eligibility criteria, non contraceptive benefits of contraceptives, fertility rates, ethical issues, Human sexuality & sexual dysfunction.

HRH 419: PRINCIPLES OF GYNECOLOGIC EXAMINATION

Organization of gynecology ward. Examination and care of patients with gynecologic conditions. History taking in gynecology and clinical examination. The abnormal vaginal discharge. Abnormalities of the menstrual flow and dysmenorrhea, Gestational Trophoblastic diseases, Ethics in reproductive health. Female genital cutting, sexual violence, Domestic violence, prostitution and other harmful traditional practices, reproductive and health consequences of GBV, clinical diagnosis, investigations, treatment and linkages / referral, legal aspects of GBV, prevention of Gender based violence.

HRH 420 POST ABORTION CARE (PAC)

Classification of abortions complications. Organization of an MVA theatre, conduct of manual vacuum aspiration and care of equipment, dilatation and curettage, principles of comprehensive PAC, ethical / religious / constitutional issues.

HRH 421: OPERATIVE GYNECOLOGY

Pre-operative care, overview of anesthesia and anesthetic agents. Principles of post operative care, common gynaecological procedures, marsupialization, examination under anesthesia for staging of cancer. Mc Donald stitch insertion, ovarian cystectomy, oophorectomy, and hysterectomy, and myomectomy, metroplasty tuboplasty laparotomy for gynecological malignancies, ectopic pregnancies, vaginal surgeries, TVH, colpoperineorrhaphy, VVF and RVF repair.