**FOM 3212 REPRODUCTIVE AND URINARY DISORDERS 5 Weeks**

Course description

This course will help the students acquire knowledge about the epidemiology of common disorders genital-urinary system. It will include information on the pathophysiology of the disorders of genital- urinary system and clinicopathological features of tumors of the reproductive system. In addition, the course will look at the clinical pharmacology of drugs commonly used to treat reproductive and urinogenital system disorders and the effects of the disorders of these systems on the pharmacodynamics and pharmacokinetics of drugs.

It will outline scientific basis of laboratory and imaging techniques used in investigating reproductive and urinogenital system disorders. In the public health context, the course will include the psychosocial and economic impact of common reproductive and urinogenital system disorders on the individual and on the country’s economy. Consequently, it will explore possible primary and secondary preventive intervention of common reproductive and urinogenital system disorders in the Ugandan context.

Course Objectives:

At the end of the five weeks the students will be able to:

1. To discuss the effect of pathological processes on the structure and function of the genital-urinary and endocrine systems

2. To discuss the immunopathogenic mechanisms of pregnancy and haemolytic diseases of the newborn

3. To discuss the causes of infertility and complications of tumors of the reproductive system.

4. To describe and explain the clinical-pathological features of tumors of the reproductive system

5. To describe and explain the clinical pharmacology of the drugs commonly used to treat reproductive and urinogenital system disorders and the effects of the disorders of these systems on the pharmacodynamics and pharmacokinetics of drugs

6. To explain the scientific basis of the laboratory and imaging techniques used in investigating disorders of the genitourinary and reproductive systems and describe the interpretation of the findings

Content contents:

• Pathology and Epidemiology: Congenital disorders, Infections and infestations,

Renal pathology in hypertension Nephrotic syndrome, nephropathies, Endometrial hyperplasia, Renal failure, Urethral strictures, Benign Prostatic hypertrophy, Genital-urinary toxicity,

Hormonal vaginal bleeding, Pelvic-support disorders, Infertility, trauma

Premenstrual syndrome, Sex and sexual disorders,

• Immunopathology: early pregnancy loss, abnormalities of pregnancy, labour and preparation, abnormalities of lactation, Rhesus immunization, neurolytic diseases of new born, infertility

• Pharmacology: diuretics, urinary acidifying and alkalinizing agents, organic buffers, anti- microbial agents, sex-hormones, contraceptives, oxytocics and tocolytics and clomiphene, and danazol, effects of impaired renal function on pharmacokinectics and pharmacodynamics of drugs, Teratogenic drugs; chemotherapy, use of radiation in tumour management

• Investigative procedures: urinalysis, blood investigations, biopsies imaging techniques and immunological tests

Duration of the course: 5 weeks 5 CU, 75CH