**FOM 3214 Endocrine Disorders 5 Weeks**

Course description

This course will help the graduates acquire knowledge about the epidemiology of common endocrine disorders and of breast disorders. It will include information on the patho-pathophysiology of the endocrine disorders and clinico-pathological features of common breast disorders. In addition the course will look at the clinical pharmacology of drugs commonly used in treating endocrine disorders and in breast carcinoma. It will outline scientific basis of laboratory and imaging techniques used in investigating endocrine disorders and breast diseases. In the public health context, the course will include the psychosocial and economic impact of common endocrine disorders and breast cancer on the individual and on the country’s economy. Consequently, it will explore possible primary and secondary preventive intervention of common endocrine disorders and of breast cancer in the Ugandan context.

Overarching Goal

Therefore with this background this course will facilitate students to understand and explain the involution and clinical impact of diseases affecting the endocrine organs and the mammary glands

Expected outcomes

At the end of the training the graduates will be able to

1. Distinguish between clinical features of hypopituitary and hyperpituitary

2. Identify patents with features of Diabetes Mellitus

3. Distinguish between benign and malignant breast diseases

4. Distinguish between clinical features of hypothyroidism and hyperthyroidism

5. Carry out relevant and systematic laboratory investigations of patients of suspected endocrine disorders

6. Request for appropriate imaging modalities for patients with breast diseases and endocrine disorders

7. Diagnose, treat and manage patient with endocrine disorders

8. Promote primary and secondary prevention of breast cancer and of Diabetes Mellitus

Course objectives

At the end of the 5 weeks students will be able to:

1. Explain the pathophysiology of the endocrine disorders

2. Describe the epidemiology of common endocrine disorders

3. Explain the epidemiology and clinico-pathological features of breast cancer and fibroadenoma

4. Explain the clinical pharmacology of drugs commonly used in treating endocrine disorders and in breast cancer

5. Outline scientific basis of laboratory and imaging techniques used in investigating endocrine disorders and breast diseases

6. Discuss the psychosocial economic impact of common endocrine disorders and breast cancer in a public Health context

7. Discuss primary and secondary prevention of common endocrine disorders and breast cancer

Course content

1. Epidemiology and risk factors of congenital, traumatic, infectious, inflammatory immunological, substrate deficiency and neoplastic disorders of the

• Pituitary gland

• Thyroid gland

• Adrenal glands

• Pancreas (islets on Langerhans)

• Parathyroid gland

• Mammary gland (breast)

2. Pathology of inflammatory and/or benign and malignant conditions of the

• Pituitary gland

• Thyroid gland

• Adrenal glands

• Pancreas (islets on Langerhans)

• Parathyroid gland

• Mammary gland (breast)

3. Imaging modalities of investigating disorders of the

• Pituitary gland

• Thyroid gland

• Adrenal glands

• Pancreas (islets on Langerhans)

• Parathyroid gland

• Mammary gland (breast)

4. Laboratory techniques for recognition of endocrine disorders and breast disorders

5. Pharmacology of

• anti-thyroid, oral hypoglycemic, insulin and hormones

• cytotoxic drugs used in treatment of breast cancer

6. Definition and execution of primary and secondary prevention of

• endocrine disorders especially NIDDM

• breast diseases especially breast cancer and fibroadenoma

7. Psycho-socio economic impact of endocrine disorders and breast cancer on the

• Individual

• Family

• Community

Methods of delivery

Lectures, Clinical sessions, Tutorials, Practical sessions, Post mortem demonstrations, Seminars

Self study session

Methods of assessment

1. Continuous assessment (twice a week)

2. Progressive assessment 3 hours written examination after the 5 weeks

3. Summative examination (3hour exam) at the end of the semester

4. Practical examination (3hours) or oral examination at the end of the semester

Infrastructure and resources available:

Tutorials rooms, Lecture theater with microphone, Laboratory space, Departmental Book bank

Albert Cook library, Computers and computer rooms, Departmental LCD projector, Post mortem demonstration room, Mortuary space, Pots

Duration of the course: 5 weeks 5 CU, 75 CH Tutors and lecturers available for this course

1. Dr Christine Najjuka

2. Dr Beatrice Achan

3. Dr William Buwembo

4. Dr Dan Wamala

5. Dr Joseph Turyabahiika

6. Dr Norah Mwebaza

7. Dr Fred Ndoboli

8. Dr Kyalyemenya

9. Dr Othieno Emanuel

10. Dr TC Barungi

11. Prof Paul Waako

12. Dr Hawa Nalwoga

13. Prof Henry Wabinga

14. Dr Odida Michael

15. Dr Kalungi Sam

16. Dr Lukande Robert

17. Dr Onzivua Sylvester

18. Dr Nsereko Mukasa

19. Dr Male- Mutumba