SESSION 4: THYROID PHYSIOLOGY AND THYROID DISORDERS

(Dr Duncan Bassett)

Lecture 2: THYROID DISORDERS

#### Learning objectives

Approximately 1 in 50 people suffer from disordered thyroid function and this represent one of the most common endocrine disorders.

**THYROID HORMONE DEFICIENCY**

1. Describe neonatal screening with the Guthrie test
2. Describe the clinical features of thyroid hormone deficiency in children and adults
3. Understand the aetiology and differential diagnosis of thyroid hormone deficiency
4. Describe the investigation of and treatment of hypothyroidism
5. Understand the principles of thyroid hormone replacement therapy
6. Understand the effect of pregnancy on thyroid hormone replacement

**THYROID HORMONE EXCESS**

1. Understand the aetiology and differential diagnosis of thyroid hormone excess
2. Describe the potential effects of the immune system on the thyroid gland
3. Describe the clinical features of hyperthyroidism and Graves’ disease
4. Describe the investigation of and treatment of hyperthyroidism
5. Understand the mechanism of action of the different thioureylenes, potassium iodine and radioactive iodine

**THYROID NEOPLASIA**

1. Understand the differential diagnosis and investigation of a thyroid mass
2. Understand the risk factors and prognosis in differentiated thyroid cancer
3. Understand the importance of genetic screening and prophylactic thyroidectomy in medullary thyroid carcinoma
4. Describe the treatment and follow up in differentiated thyroid cancer.