SESSION 4: THYROID PHYSIOLOGY AND THYROID DISORDERS

(Dr Duncan Bassett)

Lecture 1: THYROID PHYSIOLOGY

#### Learning objectives

1. Describe the development of the thyroid
2. Describe anatomy of the thyroid and the structure of a follicle
3. List hormones produced by the thyroid.
4. Describe principal features of thyroid hormone synthesis, storage, release
5. Describe the physiological actions of thyroid hormone
6. Explain the mechanism of action of thyroid hormone
7. Describe regulation of thyroid status by the hypothalamus-pituitary-thyroidal axis.
8. Describe the role of deiodinases in regulation of systemic thyroid hormone concentration and local thyroid hormone action.
9. Contrast the mechanism of action of TSH and T3