terial of his own thyroid. Some of the TSIs have much longer biological half-lives than thyrotropin and are also called longacting thyroid stimulators (LATSs).

Apart from hyperthyroidism evoked by thyrotropin or TSI, other forms of hyperthyroidism are recognised, for example hyperthyroidism associated with multinodular goitre, a solitary hyperactive adenoma (benign tumour) of the thyroid and excess exogenous thyroid hormone. In multinodular goitre one or more of the nodules may become hyperactive (Plummer's disease). Control of hormone secretion by negative feedback does not apply for hyperfunctioning nodules or adenomas. In only a small percentage of patients does thyroid carcinomatous tissue produce thyroid hormone.

Thyroid function tests. Tests used to assess the functional status of the thyroid quantitatively include determining the plasma levels of T₃, free T₄ and TT, the uptake of ¹³¹I, etc. Scintigraphy of the thyroid, using ⁹⁹Tcm or ¹³¹I, supplies valuable information about the anatomy of the gland.

Graves' disease may be treated by antithyroid drugs, surgery, or high doses of 131 - radioactive iodine is probably the treatment of choice in adults. Over the short term a β -blocker, for example propranolol, may be used to reduce nervousness, anxiety and basal metabolic rate.

Use of thyroid hormones by euthyroid individuals to promote weight loss or counteract fatigue is not advised.



