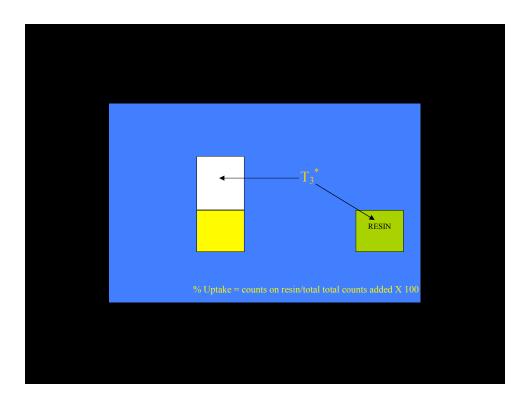
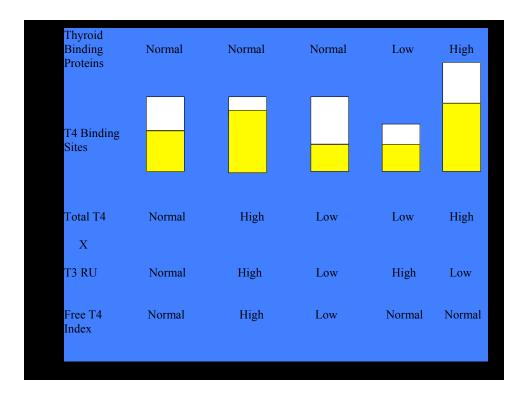
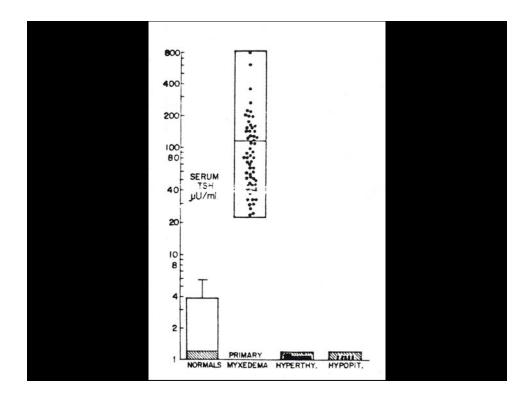


	THYROID FUNCTION TESTS
	Total T4 measurements are elevated in:
	1. Hyperthyroidism-increased total and free T ₄
	2. Elevated TBG-increased totalT4 and normal free T4
	a. Congenital: X-linked dominant
	b. Pregnancy
	c. Liver diseases
	d. Drugs: estrogens, tamoxifen, raloxifene
	3. Acute medical or psychiatric illness-uncommon
	4. Thyroid hormone resistance (Refetoff syndrome)
	a. Generalized resistance
	b. Pituitary resistance
	Total T4 measurements are decreased in:
	1. Hypothyroidism-decreased total and free T ₄
	2. Decreased TBG-decreased total and normal/free T ₄
	a. Congenital X-linked
	b. Acromegaly
	c. Nephrotic syndrome
	d. Chronic liver disease
	e. Drugs: androgens, glucocorticoids
	 Inhibition of thyroidal T₄ release without hypothyroidism-exogenous T₃ administration
	4. Acute medical illness-free T ₄ high, normal, or low









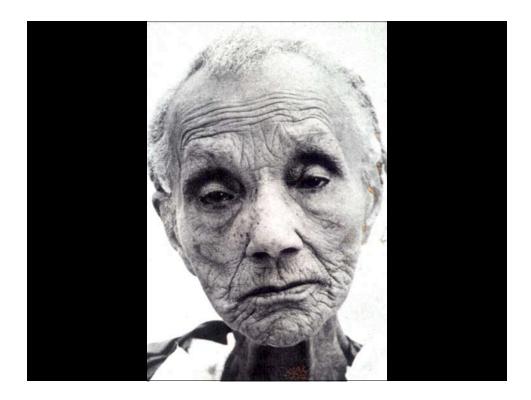
A lady, aged twenty, became affected with some symptoms which were supposed to be hysterical. Her pulse had become singularly rapid, she complained of weakness on exertion, and began to look pale and thin. It was observed that the eyes assumed a singular appearance, for the eyeballs were apparently enlarged. In a few months, a tumour, of horseshoe shape, appeared on the front of the throat and exactly in the situation of the thyroid gland.

> Robert J. Graves, M.D. 1835

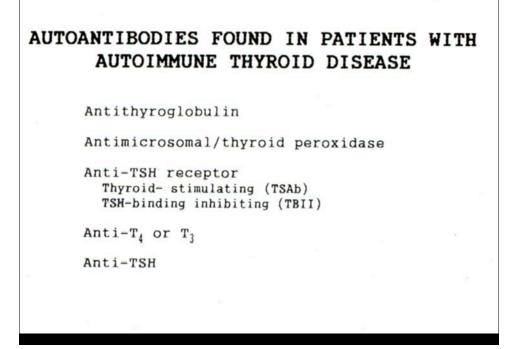


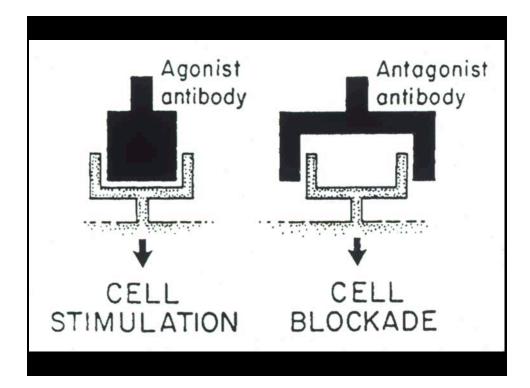


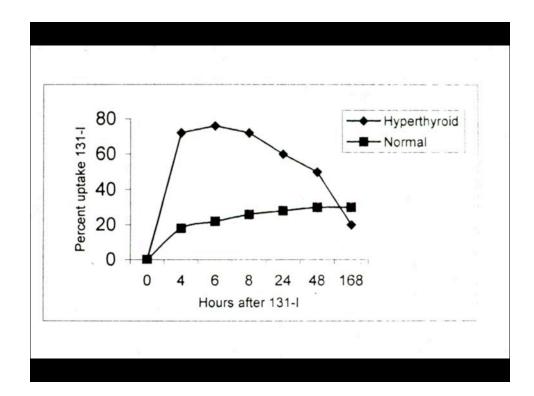


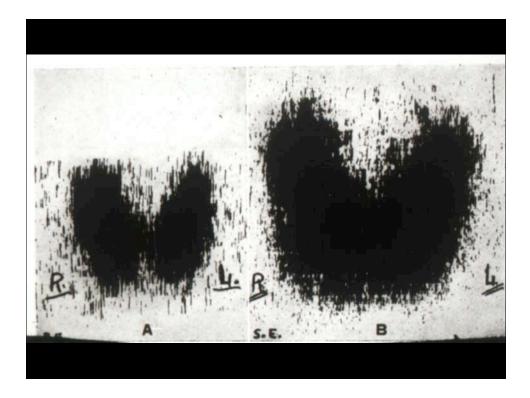














EPIDEMIOLOGY OF TAO

Toxic diffuse goiter

Female: male ratio 5:1

Peak 20-30 years of age

Thyroid-associated ophthalmopathy

Female: male ratio 2:1

Peak 40-50 years of age

Risk factors

Cigarette smoking

1 therapy Active/ progressive disease Hypothyroid

