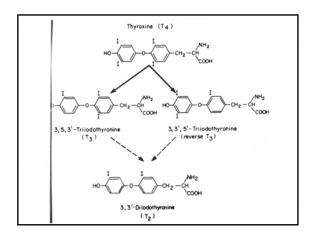
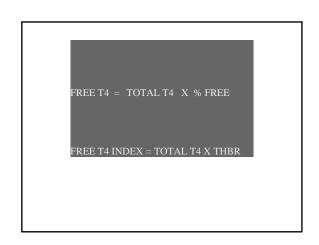


THYROID FUNCTION TESTS Total T4 measurements are elevated in: 1. Hyperthyroidism-increased total and free T4. 2. Elevated TBG-increased totalT4 and normal free T4. a. Congenital. X-linked dominant b. Pregnancy c. Liver diseases d. Drugs: estrogens, tamoxifen, raloxifene 3. Acute medical or psychiatric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



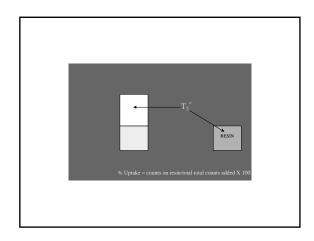


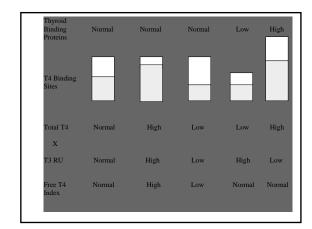
REDUCED PERIPHERAL
CONVERSION OF T4 TO T3

PHYSIOLOGIC
fetus and early neonate
? elderly

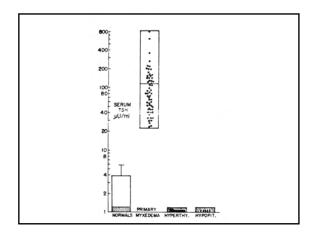
PATHOLOGIC
starvation
major systemic illness
postoperative

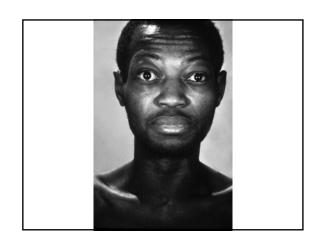
PHARMACOLOGIC
propylthiouracil
glucocorticoids
propranolol
contrast agents
amiodarone









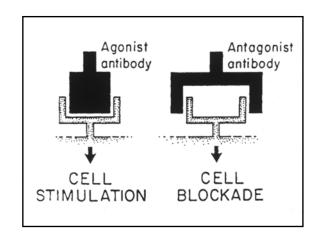


A lady, aged twenty, became affected with some symptoms which were supposed to be hysterical. Her pulse had become singularly rapid, she complained of weakness on exertion, and began to look pale and thin. It was observed that the eyes assumed a singular appearance, for the eyeballs were apparently enlarged. 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.

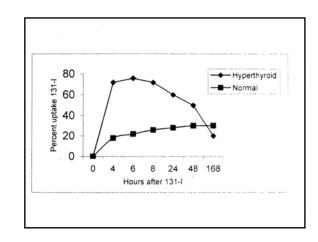
Robert J. Graves, M.D. 1835











AUTOANTIBODIES FOUND IN PATIENTS WITH AUTOIMMUNE THYROID DISEASE

 ${\tt Antithyroglobulin}$

Antimicrosomal/thyroid peroxidase

Anti-TSH receptor Thyroid- stimulating (TSAb) TSH-binding inhibiting (TBII)

Anti- T_4 or T_3

Anti-TSH

