

Effects on cardiovascular function

- Addison's disease (produces hypotension)
- Hyperthyroidism (increases heart rate, arrhythmias)
- Pheochromocytoma (produces hypertension)
- Diabetes mellitus

ENDOCRINE DISORDERS

Primary effects on metabolism

Glucose metabolism:
Addison's disease
Cushing's disease
Diabetes mellitus

Metabolic rate abnormalities:
Hyperthyroidism
Hypothyroidism

Primary effects on fluid and electrolyte balance

- Addison's disease
- Hypocortisolemia
- Diabetes insipidus
- Syndrome of inappropriate ADH secretion (SIADH)
- Hypernatremia
- Hypoparathyroidism

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treatment for cancer of the thyroid gland, the thyroid gland can also be damaged in a way that results in the production of antibodies that destroy normal follicle cells.

- **Congenital disorders.** An individual can produce normal amounts of a particular hormone if the gland itself is too small, (2) the receptor is abnormal, (3) the receptors that trigger secretion are insensitive due to a mutation that affects the releasing hormone, (4) the gland cells lack the receptor needed to initiate secretory activity.

■ DISORDERS DUE TO ENDOCRINE OR NEURAL REGULATORY MECHANISM ABNORMALITIES

Endocrine disorders can result from problems with the endocrine organs involved in the negative feedback mechanism. For example,

- **Secondary hypothyroidism** can be caused by decreased production at the pituitary gland or by damage at the hypothalamus.

- **Secondary hyperthyroidism** can be caused by decreased production of TSH by the pituitary gland or by damage at the hypothalamus.

■ DISORDERS DUE TO TARGET TISSUE ABNORMALITIES

Endocrine abnormalities can also be caused by the presence of abnormal target tissues. For example, in target tissue resistance, the target tissue is unable to respond to the circulating hormone. The best example of this type of abnormality is type 2 diabetes, in which peripheral cells do not respond normally to insulin.

■ SYMPTOMS AND DIAGNOSIS OF ENDOCRINE DISORDERS

Knowledge of the individual endocrine organs and their hormones makes it possible to predict the symptoms of specific endocrine disorders. For example, thyroid hormones increase basal metabolic rate, body heat production, perspiration, and heart rate. An elevated metabolic rate, increased perspiration, and heart rate, nervousness, excessive perspiration, and an increased or irregular heartbeat are symptoms of hyperthyroidism. Conversely, a low metabolic rate, decreased body temperature, weight gain, fatigue, dry skin, and a relaxed heart rate typically accompany hypothyroidism.

The next step in the diagnosis of an endocrine disorder after obtaining a patient's medical history is the physical examination. Several disorders produce characteristic physical signs that reflect abnormal hormone activities. Examples include:

- **Cushing's disease**, which results from an oversecretion of glucocorticoids by the adrenal cortex. As the condition progresses, the normal pattern of fat distribution in the body shifts. Adipose tissue accumulates in the abdominal area, the lower cervical area (forming a "buffalo hump"), and the face (producing a "moon face"), but the limbs become relatively thin.
- **Acromegaly**, which results from the oversecretion of growth hormone in adults. In this condition, the facial features become distorted due to excessive cartilage and bone growth, and the lower jaw protrudes, a sign known as prognathism. The hands and feet also become enlarged.
- **Adrenogenital syndrome**, which results from the oversecretion of androgens by the adrenal glands in females. Hair growth patterns change to resemble that of males, and hirsutism (pp. 47–48) develops.
- **Hypothyroidism**, which can produce a distinctively enlarged thyroid gland, or goiter.
- **Hyperthyroidism**, which can produce protrusion of the eyes, or exophthalmos.

These signs are very useful, but many other signs and symptoms related to endocrine disorders are less definitive. For example, polyuria, or increased urine production, can result from hyposecretion of ADH (diabetes insipidus) or the hyperglycemia

■ GROWTH HORMONE ABNORMALITIES

Growth hormone (somatotrophic hormone) is secreted by the anterior pituitary gland. It stimulates the growth of long bones, increases the rate of protein synthesis, and increases the rate of fat breakdown. It also stimulates the release of fatty acids from adipose tissue. Growth hormone is secreted by the anterior pituitary gland. It stimulates the growth of long bones, increases the rate of protein synthesis, and increases the rate of fat breakdown. It also stimulates the release of fatty acids from adipose tissue.

Children who are undersecrete growth hormone (GH) have pituitary growth failure. The growth of the body is stunted, and the child is short. In adults, growth hormone is secreted by the anterior pituitary gland. It stimulates the growth of long bones, increases the rate of protein synthesis, and increases the rate of fat breakdown. It also stimulates the release of fatty acids from adipose tissue.



• **FIGURE 51**
Acromegaly. Acromegaly results from excessive secretion of growth hormone after the epiphyseal cartilage changes, and cartilaginous areas of the body enlarge. The enlarged nose, jaw, and hands are characteristic features.

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