

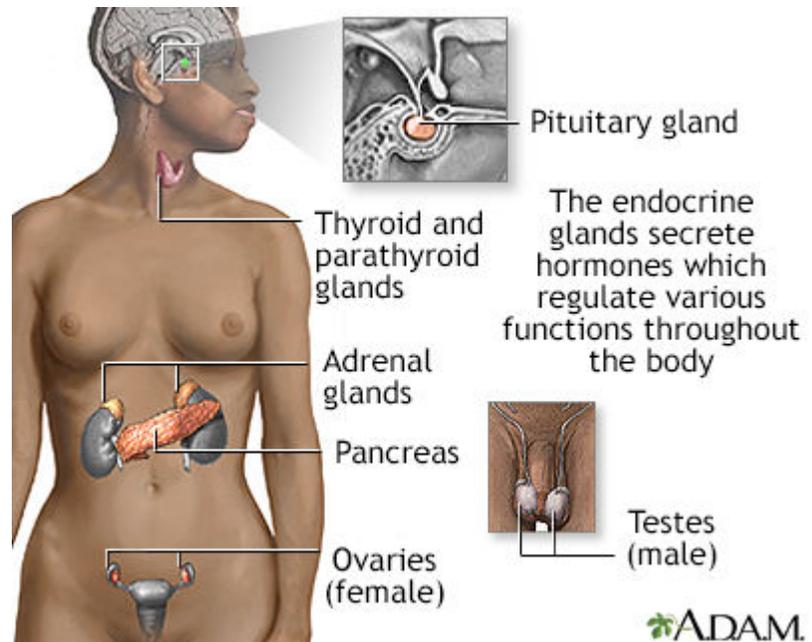
## Endocrine glands

### Definition

Endocrine glands release (secrete) hormones into the bloodstream.

The endocrine glands include:

- Adrenal
- Hypothalamus
- Islets of Langerhans in the pancreas
- Ovaries
- Parathyroid
- Pineal
- Pituitary
- Testes
- Thyroid



### Information

Hypersecretion is when an excess of one or more hormone is secreted from a gland. Hyposecretion is when the amount of hormones that are released is too low.

There are many types of disorders that can result when too much or too little of a hormone is released.

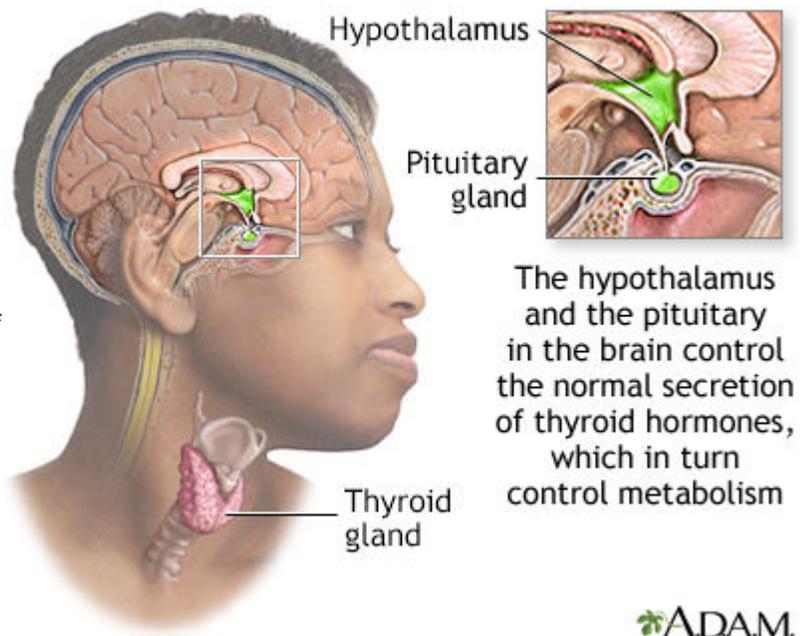
Disorders that may be associated with abnormal hormone product from a particular gland include:

Adrenal:

- Addison disease
- Adrenogenital syndrome or adrenocortical hyperplasia
- Cushing syndrome
- Pheochromocytoma

Pancreas:

- Diabetes mellitus



- Tetany (abnormal cramping of muscles)
- Renal calculi (kidney stones)
- Excessive loss of minerals from bone (osteoporosis)

Pituitary:

- Growth hormone deficiency
- Acromegaly
- Gigantism
- Diabetes insipidus
- Cushing disease

Testes and ovaries:

- Lack of sex development (unclear genitalia)

Thyroid:

- Congenital hypothyroidism
- Myxedema
- Goiter
- Thyrotoxicosis

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