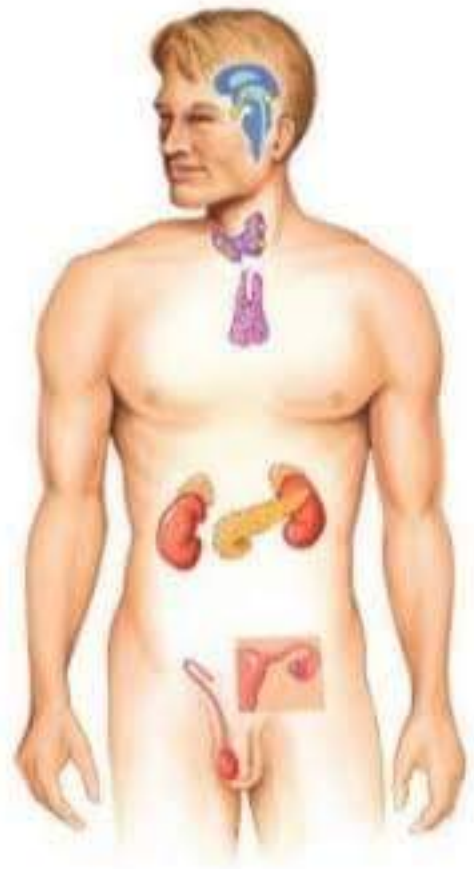
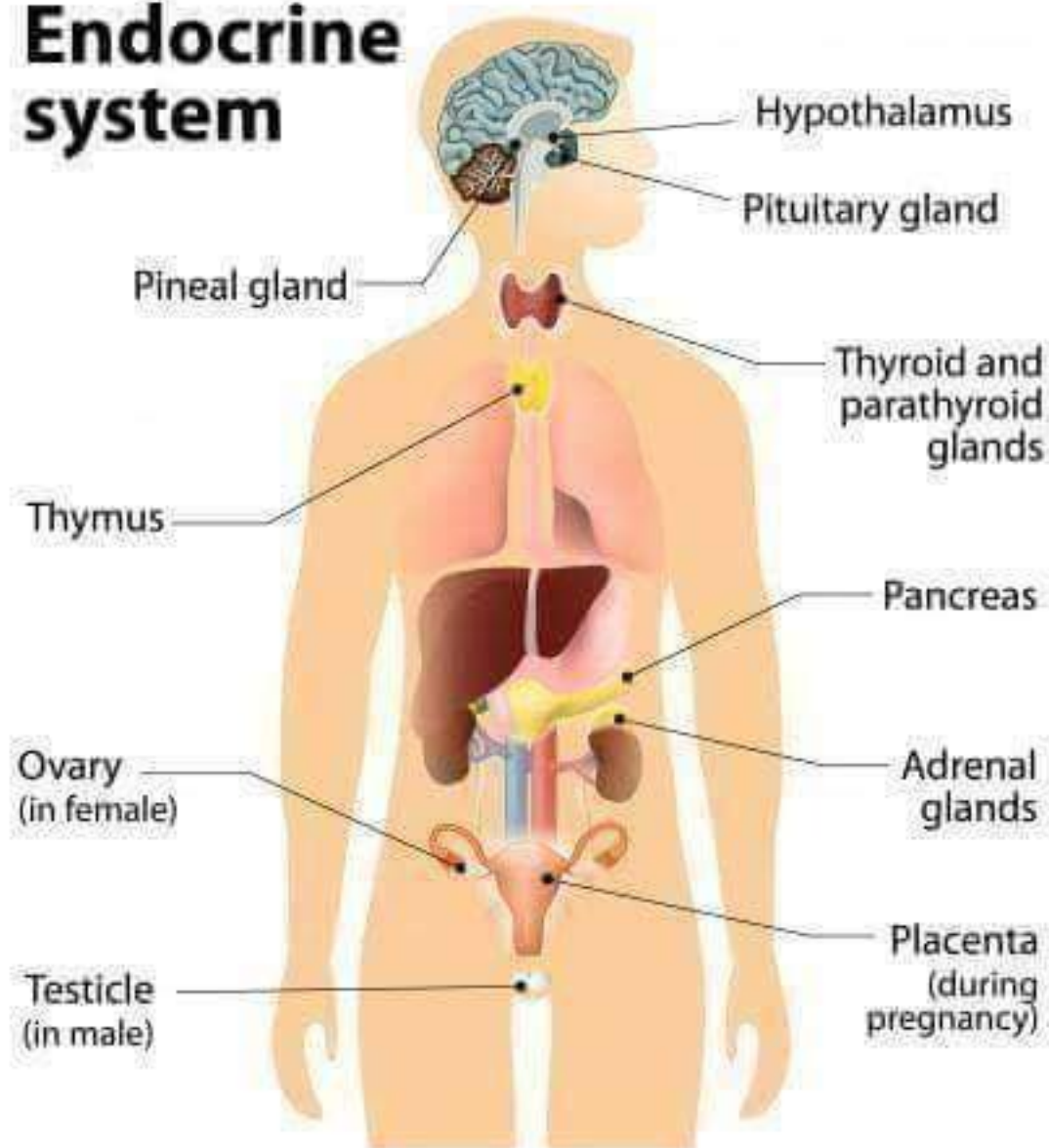


# The Endocrine System



# Endocrine system



# THE ENDOCRINE SYSTEM

## HYPOTHALAMUS

Regulates hunger, thirst, sleep and wakefulness plus most of your involuntary mechanisms including body temperature.

## PITUITARY GLAND

Controls all other endocrine glands; influences growth, metabolism and regeneration.

## THYROID GLANDS

Regulates your energy and your metabolism.

## PARATHYROID

Secretes the hormones necessary for calcium absorption.

## PANCREAS

Aids in the digestion of protein, fats and carbohydrates. Produces insulin which controls blood sugar levels.

## THYMUS

Helps build resistance to disease.

## ADRENAL GLANDS

Secretes hundreds of compounds including cortisone & adrenaline which helps you react to emergencies. Regulates your metabolic processes in the cells, water balance, blood pressure, etc.

## OVARIES

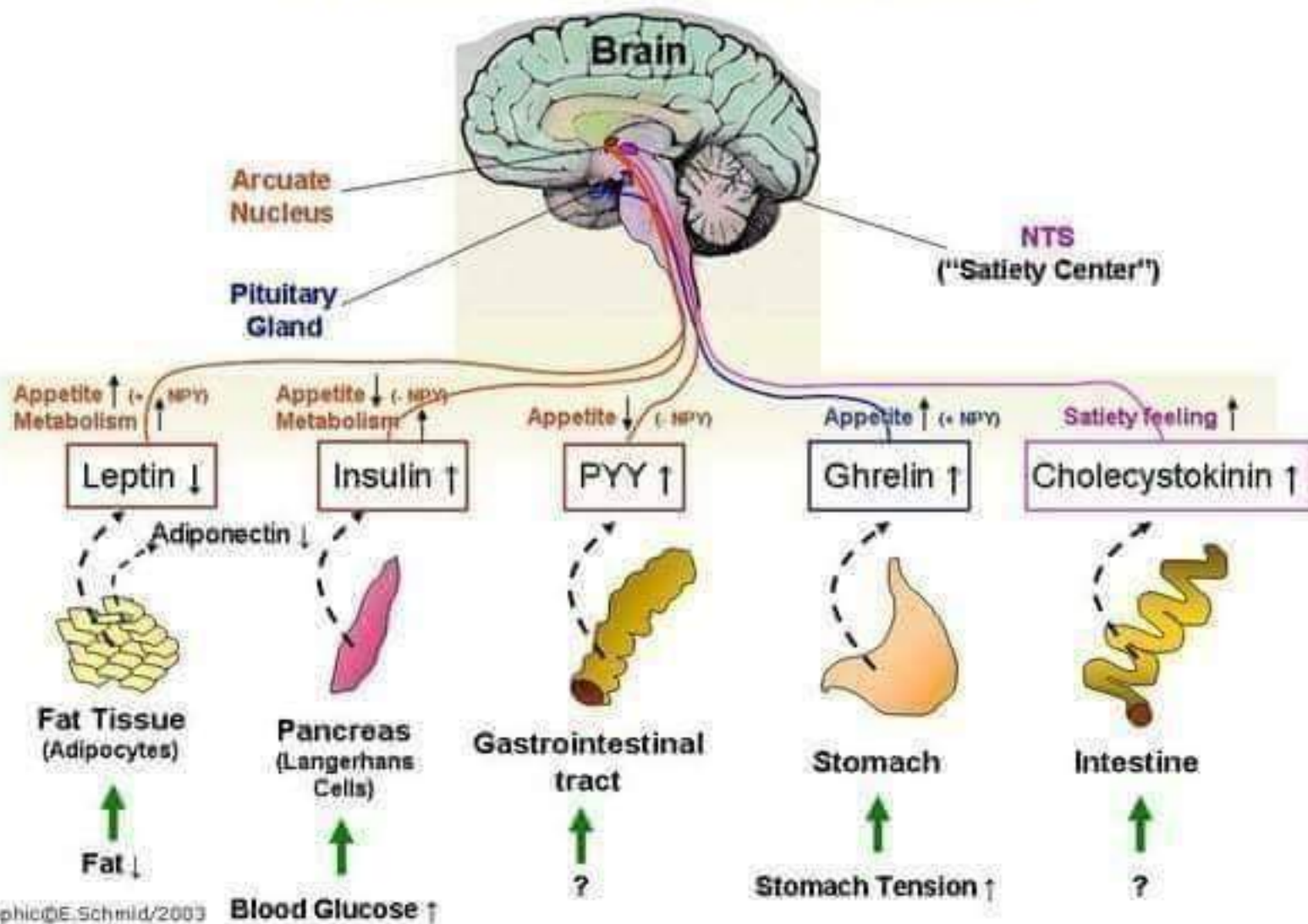
Influences how your blood circulates and determines your mental vigor and your sex drive. (Testes in males.)

More Glands

**METABOLISM** - The conversion of nutrients into energy and building materials to meet your body's needs.



Important hormones in human metabolism, appetite & satiety control



# HYPOTHALAMUS

Direct control by nervous system  
Direct release of hormones  
Indirect control through release of regulatory hormones

## KEY TO PITUITARY HORMONES:

ACTH	Adrenocorticotrophic hormone
TSH	Thyroid-stimulating hormone
GH	Growth hormone
PRL	Prolactin
FSH	Follicle-stimulating hormone
LH	Luteinizing hormone
MSH	Melanocyte-stimulating hormone
ADH	Antidiuretic hormone

