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FACULTY OF NURSING

**MSN-1ST
UNIT - 8
ENDOCRINE SYSTEM**



**MANAGEMENT OF PATIENT (ADULT'S
INCLUDING ELDERLY) WITH DISORDER OF ENDOCRINE**

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DEFINITION :

- It is the system of chemical and physiological regulation of body called endocrine system .
- **PARTS OF ENDOCRINE SYSTEM:**
 - Glands
 - Ducts
- **TYPES OF GLANDS**
 - Endocrine gland
 - Exocrine gland
 - Mix glands

1. Endocrine gland

- This type of gland secretion are directly transmitted into the blood stream.
- **Example:** pituitary gland, pineal gland, thyroid gland, parathyroid gland, pancreas gland, ovarian gland.

2. Exocrine gland

- This type of gland secretion are transmitted at the site of effect.
- **Example:** sweat gland, sebaceous gland, lacrimal gland, salivary gland, mammary gland, pancreas.

3. Mixed Gland

This type of gland has both types of effects: exocrine and endocrine.

Example: pancreas

PITUITARY GLAND

- The pituitary gland and hypothalamus work together.
- The pituitary gland also called adenohypophysis.
- It is the master endocrine gland, because it secretes specific secretion, their secretion controlled the function of other glands.
- The pituitary gland and hypothalamus are situated in the cranial cavity.
- It secreted different hormone the pituitary gland like one gland but it consist two glands that are as:

PITUITARY GLAND

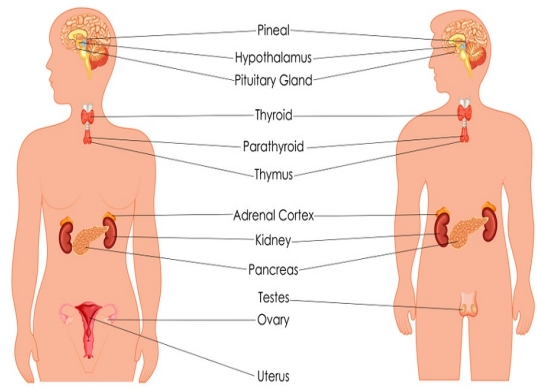
Anterior Pituitary

- GROWTH HORMONE(GH)
- THYROID STIMULATING HORMONE(TSH)
- ADRENAL CORTICOTROPIC HORMONE (ACTH)
- PROLACTING HORMONE
- FOLICAL STIMULATING HORMONE(FSH)
- LUTEINIZING HORMONE(LH)
- MELANOCYTE STIMULATING HORMONE

Posterior Pituitary

- OXYTOCIN
- ANTIDIURETIC OR VASOPRESSIN(ADH)

Endocrine System Male-Female



PINEAL GLAND

- It is gland are present in gland and to secrete melatonin hormone and melatonin is responsible for sleepwell cycle.
- FUNCTIONS : Secretion of melatonin
 - . To maintain sleepwell cycle
 - .To maintain biological clock it secreted at night time

PANCREAS

- **Pancreas is a mixed gland, it acts as an exocrine and endocrine**

TYPES OF CELLS: Islets cells
Acinar cells

ISLETS OF LANGERHANS: It is a part of pancreatic cell most commonly present in the tail part of the pancreas and coordinates endocrine hormones.

Alpha cells: Glucagon (increase level of glucose)

Beta cells: Insulin (it maintains blood glucose level)

Delta cells: somatostatin (to maintain alpha and beta cell function)

- **ACINAR CELLS:** The cells of the pancreas secrete the exocrine hormone.
- **EXAMPLE:** Amylase, Lipase, Trypsin.

ANATOMICAL STRUCTURE OF PANCREAS

