#### Endocrine Overview

- a. The endocrine system consists of glands which secrete hormones directly into the blood
  - These glands include:
    - 1. Hypothalamus, pituitary gland, thyroid, parathyroid, pancreas, adrenal glands, placenta (during pregnancy). ovaries, testes, thymus, and pineal cland
    - 2. The hormones secreted by these clands regulate the functions of different organs and tissues
- b. Glands and their hormones:
  - L Pibuitarys
    - 1. Anterior pituitary:
      - a. TSH.
      - ACTH
      - 1.34 e.
      - GH dl.
      - e. Prolactin
    - 2. Posterior pituitary:
      - a. Otycocini
        - b. Vasopnessin.
  - iii. Thyroick
    - 1. T4.TB
    - 2. Cal cit onlin.
  - III. Parathyroid:
    - Parathyroid hormone (PTH)
  - W. Pancreas:
    - 1. Insulin
    - Glucagon
    - 3. Sometostetin
    - 4. Pancreatic polypeptide (PP)
  - w. Adrenal glands:
    - 1. Epinephrine
    - 2. Norepinephrine
    - 3. Aldosterone
    - 4. Cortisol

    - Androgens
  - vi. Ovaries:
    - Estrogen
- will. Testes:
  - 1. Testosterone
- Pituitary Gland:
  - a. Morphology and overall functions
    - L. Gross Anatomy:
      - 1. Well-protected gland, located in a pocket of the sphenoid bone at the base of the brain
    - iii. Hiistology:
      - Posterior:
        - a. Made up largely of the endings of exons from the hypothalamus
        - b. Stores hormones from hypothalamus
      - 2. Anterior:
        - a. Contains endocrine cells that synthesize and store hormones.
        - b. Different cell types produce different hormones >







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**ML Yell** 

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