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| **Anterior Pituitary** | **Posterior Pituitary** |
| ACTH (Adrenocorticotropic Hormone)TSH (Thyroid Stimulating Hormone)FSH (Follicle Stimulating Hormone)LH (Lutenizing Hormone)GH (Growth Hormone)Prolactin | Antidiuretic HormoneOxytocin |
| **Hypopituitarism** | **Hyperpituitarism** | **Diabetes Insipidus** | **SIADH** |
| ↓ GH  | ↑ GH = **Acromegaly** |  ↑ Urine output | ↑ ADH = ↓ urine output |
| ↓ TSH = **hypothyroidism** | ↑ TSH = **hyperthyroidism** | ↓ ADH = Central (neurogenic)  |   |
| ↓ Prolactin, FSH, LH | ↑ Prolactin, FSH, LH | Decreased Renal Response to ADH (normal ADH levels) = Nephrogenic |   |
| ↓ ACTH = Deficiency of corticosteroids from adrenal cortex | ↑ ACTH = ↑ corticosteriod production by adrenal cortex = **Cushing's**  | Excessive water intake = Primary |   |
|  |  |  |  |
| **Adrenal Cortex** | **Adrenal Medulla** |
| Corticosteroids:Glucocorticoids (Cortisol)Mineralocorticoids (Aldosterone)Androgens | Catecholamines (epinephrine, norepinephrine) |
| **Hypofunction** | **Hyperfunction** | **Pheochromocytoma** |
| Adrenalcortical insufficiency = **Addison's**  | ↑ corticosteroids (Mostly Cortisol) = **Cushing's**(Cushing's can also be caused by administration of coticosteroids - Prednisone) | ↑ Catecholamines |
| ↓ secretion of corticosteroids can be caused from ↓ ACTH from pituitary | ↑ secretion of corticosteroids can be caused from ↑ACTH from pituitary = **Cushing’s** |   |
|   | ↑ Aldosterone = Hyperaldosteronism |   |
| **Thyroid** | **Parathyroid** |
| T3T4 | Parathyroid Hormone (PTH) |
| **Hypothyroidsim** | **Hyperthyroidism** | **Hypoparathyroidism** | **Hyperparathydroidism** |
| ↓ T3, T4 | ↑ T3, T4 | ↓ PTH = Hypocalcemia | ↑ PTH = Hypercalcemia |
| ↓TSH from pituitary | ↑ TSH from pituitary  |   |   |