|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Anterior Pituitary** | | | **Posterior Pituitary** | | |
| ACTH (Adrenocorticotropic Hormone) TSH (Thyroid Stimulating Hormone) FSH (Follicle Stimulating Hormone) LH (Lutenizing Hormone) GH (Growth Hormone) Prolactin | | | Antidiuretic Hormone Oxytocin | | |
| **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** | | |
| T3 T4 | | | Parathyroid Hormone (PTH) | | |
| **Hypothyroidsim** | | **Hyperthyroidism** | **Hypoparathyroidism** | **Hyperparathydroidism** | |
| ↓ T3, T4 | | ↑ T3, T4 | ↓ PTH = Hypocalcemia | ↑ PTH = Hypercalcemia | |
| ↓TSH from pituitary | | ↑ TSH from pituitary |  |  | |