

	GLANDS	HORMONES	TARGET TISSUES	FUNCTIONS	DISORDER
	HYPOTHALAMUS	1.Oxytosin 2. Vasopressin [ADH]	Smooth muscles Kidneys	Facilitating child birth, ejection of milk Reduces water loss through urine	---- Diabetes insipidus
1	PITUITARY	1.TSH 2.ACTH 3.GTH 4.Somatotropin[growth hor] 5.Prolactin	Thyroid Adrenal cortex Gonads[sex organs] All body tissues Breasts	Influences thyroid secretions Influences adrenal cortex secretions Influences sex organs Promotes growth Dwarfism, Giga Production of milk	---- ----- ----- ntism,Acromegaly ----
2	PINEAL	Melatonin		diurnal or seasonal rhythmic activities	
3	THYROID	1. Thyroxine 2. Calcitonin	Most of the tissues Kidneys,bones,intest	Metabolism and growth [breakdown of nutrients, energyproduction ,mental-physical growth, heartbeat etc.] Prevents the increase of blood calcium level	Cretinism,Myxoedema, Exophthalmic goiter -----
4	PARATHYROID	Parathormon	Kidneys,bones,intest	Prevents the decrease of blood calcium level	Tetany, kidney stone
5	ADRENAL	1.Cortisol 2.Aldosteron 3.Sex hormones 4.Adrenalin 5.Noradrenalin	Liver, lipid tissues ----- Most of the tissues Most of the tissues	Breakdown of proteins and lipids, glucose production,Storage of glycogen in liver Salt-water balance ----- prepare our body to overcome emotions like anger, fear, joy or anxiety	
6	PANCREAS[Islets of Langerhans]	1.Insulin 2.Glucagon	All, except nervous Liver, muscle, lipid .	Lowers blood glucose level , when it is increased Increases blood glucose level, when it is lowered	Diabetes mellitus ----
7	TESTES OVARIES	Testosteron 1.Oestrogen 2.Progesterone	Most of the tissues Most of the tissues Ovaries,uterus	Changes in adolescent period , growth of sex organs, production of sperms/ovum etc. Menstrual cycle, pregnancy, fixing of embryo, development of uterus ..	

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PLANT HORMONES [Phytohormones]

1. **AUXINS** – Elongation of stem, lateral roots, plumule and radicle, production of female flowers, dominance of terminal bud etc.
2. **CYTOKININS** – Accelerating cell division and cell growth, germination of seeds, prevents dropping of flowers and leaves
3. **GIBBERELLINS** – Germination of seeds , sprouting of leaves, stem elongation,cell division and growth
4. **ETHYLENE** – Prevents cell division. Helps to mature and ripen leaves and fruits
- 5.**ABSCICIC ACID** – Prevents cell division and growth. Helps falling of matured leaves and fruits. Helps in the dormancy of seeds and buds.