THE ENDOCRINE GLANDS

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GLAND Hypothalamus	HORMONE Some pituitary hormones. Some hormones that stimulate or In- hibit pituitary hormone production		FUNCTIONS Control balance among other hormones.	INTERESTING FACTS This part of brain acts as nervous and endocrine tissue.
Pituitary "Master Gland"	Growth hormone ACTH FSH TSH	Hypothalmus (base of)	Stimulate other endocrine glands. Growth of long bones.	Interacts with other endocrines to control hormone levels. Undersecretion - dwarfism Oversecretion - giantism in youth acromegaly in adults
Thyroid	Thyroxin (about 65% iodine)	Near windpipe below larynx in neck	Controls metabolism. Helps normal mental and physical development	Undersecretion - sluggish, tendency to gain weight Oversecretion - loss of weight nervous, rapid heart, protruding eyes, exophtalmic goiter
Islands of Langerhans	Insulin Glucagon	Pancreas	Regulates amount of sugar in blood and cells. Stimu- lates release of sugar from liver into blood.	
Adrenal Glands	Adrenaline	On top of Kidneys	Speeds breath-	Gives great strength
"Glands of Combat"	Cortisol	Medulla - middle of adrenal gland Cortex - outer	ing, heartbeat, circulation, blood clotting, release of sugar Has effect on	and speed in emergen- cies. Lack of cortisol causes Addison's dis- ease. Controls formation of
		portion of adrenal	salts in blood, blood, blood pressure and general strength	glucose from protein and fat.
Parathyroids	Parathormone	Four small glands embedded in thyroid		Controls calcium metabolism, nervous function, blood clotting, muscle function, growth of teeth and bones.
Gonads				
Testes	Testosterone	In scrotum	To control sex characteristics	Alters reproductive function
Ovaries	Estrogen	In abdomen	Produce sex cells	