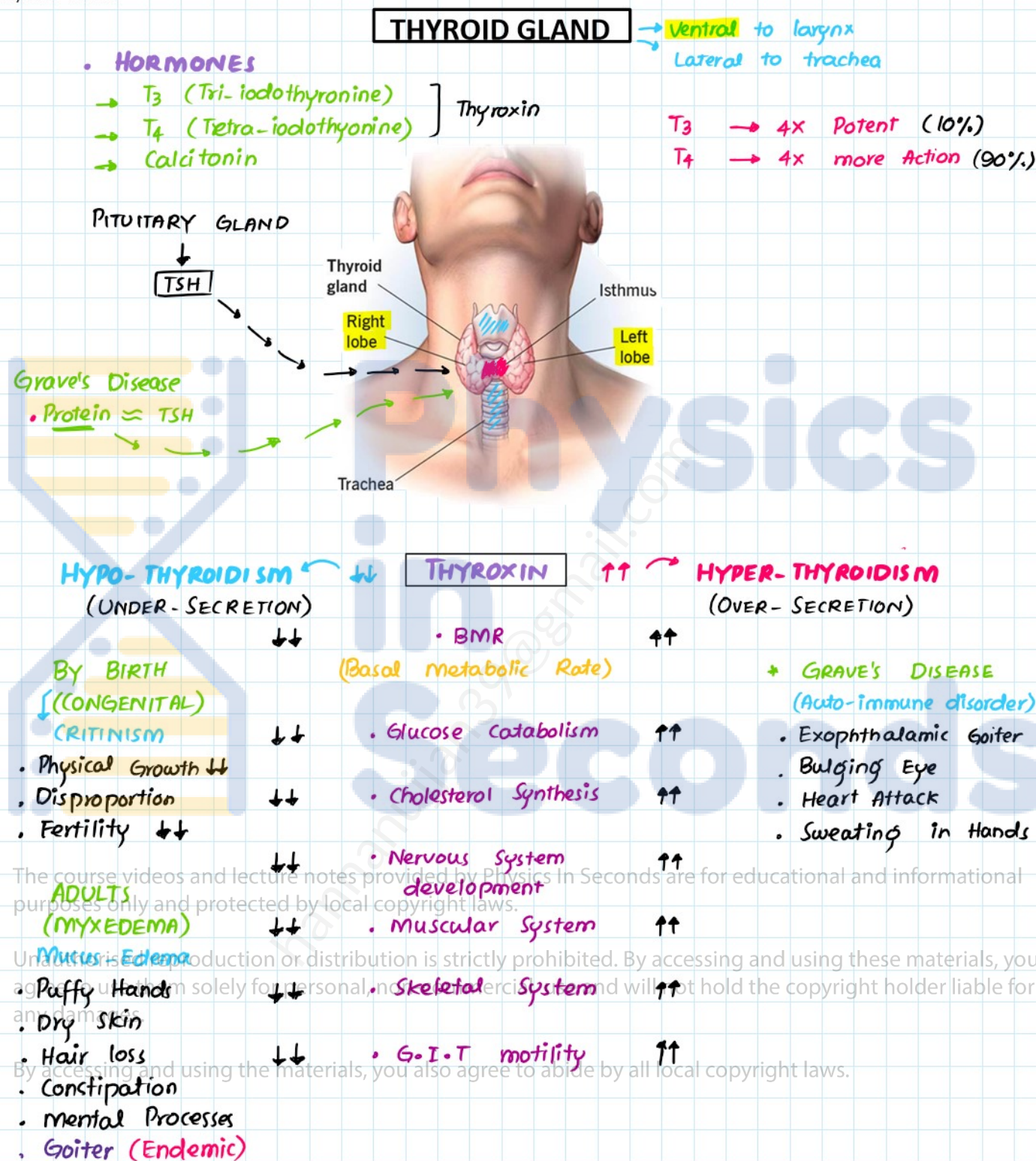
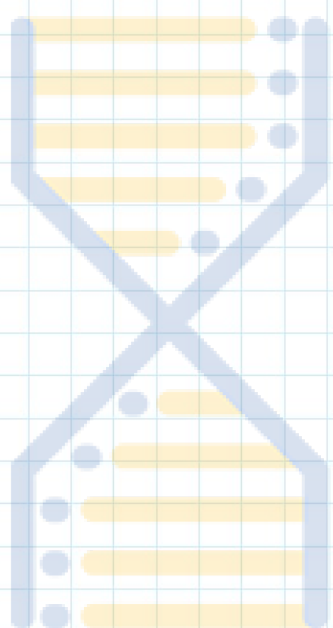


2.5 Thyroid Gland



Gland	Secretion	Control of production	Function	Over-secretion	Under-secretion
Thyroid (2 lobes above larynx)	Thyroxine (T ₄) and tri-iodothyronine (T ₃)	TSH	Increasing basic metabolic rate, growth, differentiation of brain cells, metamorphosis in	Graves disease (abnormal protein stimulating thyroid) characterized by exophthalmic goiter, increased basic metabolic rate, cardiac failure	Cretinism in children (mental, physical & sexual retardation, small in size, coarse

Thyroid (2 lobes above larynx)	Thyroxine (T ₄) and tri-iodothyronine (T ₃)	TSH	Increasing basic metabolic rate, growth, differentiation of brain cells, metamorphosis in amphibians	Graves disease (abnormal protein stimulating thyroid) characterized by exophthalmic goiter, increased basic metabolic rate, cardiac failure	Cretinism in children (mental, physical & sexual retardation, small in size, coarse scanty hair, thick yellowish scaly skin) & Myxedema in adults (puffiness of hand and skin, physical & mental retardation)
	Calcitonin	High Ca ⁺⁺ in blood stimulates and low retards.	Control of calcium level in blood	Disturbance of calcium metabolism with affect on nerves, skeleton, blood muscle etc.	Disturbance of calcium metabolism with affect on nerves, skeleton, blood muscle etc.



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