








Table 16.1 Pituitary Hormones: Summary of Regulation and Effects (continued)

HORMONE (CHEMICAL STRUCTURE AND CELL TYPE)	REGULATION OF RELEASE	TARGET ORGAN AND EFFECTS	EFFECTS OF HYPOSECRETION ↓ AND HYPERSECRETION ↑
Anterior Pituitary Hormones			
 Growth hormone (GH) (Protein, somatotrophic cells)	<p>Stimulated by GHRH* release, which is triggered by low blood levels of GH as well as by a number of secondary triggers including hypoglycemia, increases in blood levels of amino acids, low levels of fatty acids, exercise, and other types of stressors</p> <p>Inhibited by feedback inhibition exerted by GH and IGFs, and by hyperglycemia, hyperlipidemia, obesity, and emotional deprivation via either increased GHIH* (somatostatin) or decreased GHRH* release</p>	 Liver, muscle, bone, cartilage, and other tissues: anabolic hormone; stimulates somatic growth; mobilizes fats; spares glucose Growth-promoting effects mediated indirectly by IGFs	↓ Pituitary dwarfism in children ↑ Gigantism in children; acromegaly in adults
Thyroid-stimulating hormone (TSH) (Glycoprotein, thyrotrophic cells)	<p>Stimulated by TRH* and in infants indirectly by cold temperature</p> <p>Inhibited by feedback inhibition exerted by thyroid hormones on anterior pituitary and hypothalamus and by GHIH*</p>	 Thyroid gland: stimulates thyroid gland to release thyroid hormones	↓ Cretinism in children; myxedema in adults ↑ Hyperthyroidism; effects similar to those of Graves' disease, in which antibodies mimic TSH
Adrenocorticotropic hormone (ACTH) (Peptide, corticotrophic cells)	<p>Stimulated by CRH*; stimuli that increase CRH release include fever, hypoglycemia, and other stressors</p> <p>Inhibited by feedback inhibition exerted by glucocorticoids</p>	 Adrenal cortex: promotes release of glucocorticoids and androgens (mineralocorticoids to a lesser extent)	↓ Rare ↑ Cushing's disease
Follicle-stimulating hormone (FSH) (Glycoprotein, gonadotrophic cells)	<p>Stimulated by GnRH*</p> <p>Inhibited by feedback inhibition exerted by inhibin, and estrogen in females and testosterone in males</p>	 Ovaries and testes: in females, stimulates ovarian follicle maturation and estrogen production; in males, stimulates sperm production	↓ Failure of sexual maturation ↑ No important effects
Luteinizing hormone (LH) (Glycoprotein, gonadotrophic cells)	<p>Stimulated by GnRH*</p> <p>Inhibited by feedback inhibition exerted by estrogen and progesterone in females and testosterone in males</p>	 Ovaries and testes: in females, triggers ovulation and stimulates ovarian production of estrogen and progesterone; in males, promotes testosterone production	As for FSH
Prolactin (PRL) (Protein, prolactin cells)	<p>Stimulated by decreased PIH*; release enhanced by estrogens, birth control pills, breast-feeding, and dopamine-blocking drugs</p> <p>Inhibited by PIH* (dopamine)</p>	 Breast secretory tissue: promotes lactation	↓ Poor milk production in nursing women ↑ Inappropriate milk production (galactorrhea); cessation of menses in females; impotence in males

*Indicates hypothalamic releasing and inhibiting hormones: GHRH = growth hormone-releasing hormone; GHIH = growth hormone-inhibiting hormone; TRH = thyrotropin-releasing hormone; CRH = corticotropin-releasing hormone; GnRH = gonadotropin-releasing hormone; PIH = prolactin-inhibiting hormone

Radioassay Systems In Clinical Endocrinology

J Chayen, Lucille Bitensky



Radioassay Systems In Clinical Endocrinology:

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Radioassay Systems In Clinical Endocrinology**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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