

# Physiology Lecture (12) Notes ENDOCRINOLOGY:

## Introduction to the Endocrine System;

### Endocrine System;

- > One of the two communication systems of the body, the other being the nervous system.
- > The endocrine system operates through chemical messengers or hormones which circulate in the blood to target organs.
- > Hormones co-ordinate the minute to minute and day to day functions of the various tissues of the animal
- > Hormones help regulate such diverse activities such as
  - Growth and development of physical, sexual and mental characteristics
  - Utilization of nutrients by the cells
  - Adjustments of salt and water balance
  - Metabolic rate
  - Dealing with stress



### Principal Endocrine Glands;

- > The principal endocrine organs are ;
  - The pituitary
  - The Thyroid
  - Parathyroid
  - Adrenals
  - Gonads (Ovaries/Testes)
- > Other organs such as the islets of Langerhans, heart, Gastrointestinal tract, brain and kidney also secrete hormones
- > **Definitions;**
  - **Endocrine Cells;** Secrete hormones into a blood vessel and hormone transported to target cells
  - **Paracrine cells;** Secrete hormones which act on neighboring cells
  - **Autocrine cells;** secrete hormones which act on the same cell
  - **Neuro-endocrine cells;** Secrete hormones from neural axon terminals straight into blood stream

Tissue	Hormone	FUNCTION
Pancreas	Insulin, glucagon	Glucose Metabolism
Kidneys	Renin Erythropoietin Vitamin D3	Blood pressure (BP) Red cell production. Plasma Calcium
Liver	Insulin-like Growth Factors (IGF-I and IGF-II)	Growth
Heart	Atrial Natriuretic factor (ANF)	Na excretion by kidneys
Fat cells	Leptin (discovered 1994)	Regulates appetite
Gastro-Intestinal Tract	Gastrin Secretin Cholecystokinin	Digestive Processes

### Hormones

# Lecture Notes On Endocrinology

**Amir H. Sam, Professor Karim Meeran**



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Lecture Notes on Endocrinology William Jeffcoate,1993-04-15 Lecture Notes on Endocrinology provides the medical student with a concise readable account of the basic mechanisms of endocrinology and how endocrine disorders present themselves in patients The emphasis throughout is on the clinical relevance of endocrinology and on the most frequently encountered disorders This fifth edition has been completely rewritten and is illustrated with graphs line illustrations photographs and tables

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**Lecture notes on endocrinology** R. F. Fletcher,1975

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medical school curriculum It presents the basic science needed to understand mechanisms of disease and describes the clinical presentations of the disorders associated with different glands concluding with the relevant investigations and management Focusing on conditions commonly encountered on the wards and in exams with key points to aid revision and recall this new title is perfect as a course companion and is the ideal revision tool for medical students specialist nurses and doctors working on endocrinology rotations Lecture Notes Endocrinology and Diabetes is also essential for endocrinology trainees approaching the new Knowledge Based Assessment KBA *Lecture Notes on Endocrinology* Kenneth Cecil Harrison,1967 **Lecture Notes** Amir H. Sam,2009 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography,1978 *Clinical Endocrinology of Dogs and Cats* A. Rijnberk,2012-12-06 Clinical endocrinology is a fascinating field requiring the challenging combination of broad pathophysiological interest and specific expertise in the field of endocrinology thereby occupying a common ground between biochemistry physiology and clinical medicine In the majority of cases the clinician's notion of the presence of an endocrine disease is largely based upon pattern recognition in which physical changes play an important role Therefore many color illustrations have been included throughout the text In addition there are many full color graphs and illustrations of diagnostic imaging and pathology With over 350 illustrations the book represents a richly illustrated text on the diseases of endocrine glands For each gland there is an introductory section on the relevant morphology and physiology followed by descriptions of the disorders of the gland When endocrine diseases are quite different in dogs and cats separate descriptions are given for these species Protocols for function tests and emergency treatments are presented in the last chapters Consequently the book provides the user with both comprehensive descriptions and quick references The book has been written by leading clinicians in the field with contributions from two biochemists a radiologist and pathologist As such a valuable textbook for veterinary students and practitioners has been compiled to fulfil the need for an up to date and complete book on endocrine diseases of dogs and cats

*Lecture Notes: Clinical Pharmacology and Therapeutics* Gerard A. McKay,John L. Reid,Matthew R. Walters,2010-11-01 Lecture Notes Clinical Pharmacology and Therapeutics provides all the necessary information within one short volume to achieve a thorough understanding of how drugs work their interaction with the body in health and disease and the practical aspects of prescribing drugs appropriately in clinical situations Presented in an easy to use format this eighth edition builds on the clinical relevance for which the title has become well known and features an up to date review of drug use across all major clinical disciplines together with an overview of contemporary medicines regulation and drug development Key features include A section devoted to the practical aspects of prescribing Clinical scenarios and accompanying questions to contextualise information End of chapter summary boxes Numerous figures and tables which help distill the information for revision purposes Whether you need to develop or refresh your knowledge of pharmacology Lecture Notes Clinical

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**Essential Endocrinology and Diabetes, Includes Desktop Edition** Richard I. G. Holt,Neil A. Hanley,2011-12-27 Beautifully presented and now in full colour the sixth edition of Essential Endocrinology and Diabetes is fully up to date with the latest knowledge and concepts on the workings of the endocrine system It explains the key principles of endocrine physiology in an easy reading style popular with students clinicians and scientists The invaluable background on basic science and investigation including new molecular techniques provides the foundation for detailed discussion of the diagnosis and management of clinical endocrine disorders and diabetes The teaching style and presentation has been strengthened throughout and includes learning objectives and recap links at the beginning of each chapter that remind the reader of key findings and principles while cross referencing makes it easy to locate related information quickly and efficiently There are also more case studies with detailed answers applying theory to practice Essential Endocrinology and Diabetes is the perfect resource for a course on endocrinology and diabetes as part of USMLE teaching and an on going

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