

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

Andrzej Bartke, Andrew Constanti



Lecture Notes On Endocrinology:

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

Lecture Notes on Endocrinology Ronald F. Fletcher,1978

Basic Endocrinology: For Students of Pharmacy and Allied Health Andrzej Bartke,Andrew Constanti,2019-02-13 This textbook has been written primarily for undergraduate students of pharmacy toxicology and medicine who require a concise reference book on basic endocrine function and dysfunction

Lecture notes on endocrinology R. F. Fletcher,1975

Endocrinology and Diabetes Amir H. Sam,Karim Meeran,Neil Hill,2023-06-08 Balancing depth and accessibility Endocrinology and Diabetes Lecture Notes 2nd Edition provides medical students and junior doctors with the key information needed to understand mechanisms of endocrine conditions This popular revision guide covers endocrine anatomy and physiology scientific background clinical presentations diagnosis and management of various endocrine disorders Clear and concise chapters focus on conditions commonly encountered in both clinical practice and assessments Now in full colour the second edition has been updated with further figures that demonstrate features of endocrine conditions Features enhanced and expanded coverage of all major topics within diabetes and endocrinology Reflects the current knowledge base evidence and best practices in the field Provides easy access to the scientific background presentation diagnosis and management of each condition Offers up to date information for those preparing for MRCP or endocrinology specialty exams Includes boxed sections in every chapter highlighting key points to aid revision and recall Endocrinology and Diabetes Lecture Notes 2nd Edition remains a must have for medical students specialist nurses junior doctors and trainees working on endocrinology rotations or preparing for the Specialty Certificate Examination in Endocrinology For more information on the complete range of Wiley medical student and junior doctor publishing please visit www.wiley.com To receive automatic updates on Wiley books and journals join our email list Sign up today at www.wiley.com email This new edition is also available as an e book For more details please see <http://www.wiley.com> buy 9781118682241 All content reviewed by students for students Wiley Medical Education books are designed exactly for their intended audience All of our books are developed in collaboration with students This means that our books are always published with you the student in mind If you would like to be one of our student reviewers go to www.reviewmedicalbooks.com to find out more

Basic Endocrinology Andrzej Bartke,Andrew Constanti,2003-07-09 This textbook has been written primarily for undergraduate students of pharmacy toxicology and medicine who require a concise reference book on basic endocrine function and dysfunction

Lecture Notes Endocrinology and Diabetes Amir H. Sam,Professor Karim Meeran,2009-10-05 This brand new title in the Lecture Notes series covers a core element of the

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

Pharmacology and Therapeutics presents need to know information for all those involved in prescribing [National Library of Medicine Current Catalog](#) National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70

[Clinical Medicine](#) John R. Bradley,Mark Gurnell,Diana F. Wood,2018-07-02 Featuring updated content throughout this new edition of Clinical Medicine Lecture Notes is a concise guide to both history taking and examination and to the essentials of clinical medicine on a system by system basis The text is divided into two sections with part one exploring communication and physical examination techniques supported by the core knowledge required for assessing and diagnosing diseases in the main systems of the body The second part of the text covers a range of common diseases although accounts of rare conditions are also given The level of information provided will equip junior clinicians with the necessary knowledge required to succeed in any clinical situation A concise approach that contains all that medical students and junior doctors need to know covering both the clinical approach and the essential background knowledge Summary and evidence based medicine boxes to assist revision and learning Includes OSCE exam summaries Fully updated content throughout with full colour illustrations and photographs Whether you need to develop your knowledge for clinical practice or refresh that knowledge in the run up to examinations Clinical Medicine Lecture Notes will help foster a systematic approach to the clinical situation for all medical students and junior doctors **Diabetes and Endocrine E-Book** Derek G. Waller,2016-09-13 Diabetes

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The Endocrine System at a Glance Ben Greenstein,Diana F. Wood,2011-11-15 The Endocrine System at a Glance provides a highly illustrated and unambiguous introduction to the basic principles and mechanisms of endocrinology and the key endocrine organs followed by sections on reproductive and metabolic endocrinology Clinical scenarios contextualise the basic science and illustrate how endocrine conditions present are diagnosed and are treated on the wards This third edition Includes new material on basic diagnostic tests used in the diagnosis of endocrine disorders Features new material on cancer and endocrinology Includes MCQs for each chapter The Endocrine System at a Glance is ideal for all medical students studying endocrinology and revising for final exams as well as preparing for clinical attachments The book is also suitable for those training in allied health professions and nurses specialising in endocrinology

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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