



CHAPTER 13

Basic Endocrinology

Scott Moore

CHAPTER OUTLINE

Hormone Classification

- Amine
- Peptide
- Protein
- Glycoprotein
- Steroid
- Fatty Acid

Introduction to Hormones

- Growth Hormone (GH)
- Adrenocorticotrophic Hormone (ACTH) and the Adrenal Cortical Hormones
- Follicle Stimulating Hormone and Luteinizing Hormone
- Prolactin (PRL)
- Androgens
- Progesterone
- Estrogens/Estradiol/Estriol
- Catecholamines
- Thyroid Hormone (T_4 , T_3) and Thyroid Stimulating Hormone (TSH)
- Posterior Pituitary Hormones
- Calcitonin and Procalcitonin
- Parathyroid Hormone (PTH)
- Insulin
- Glucagon

- Gastrin and Secretin
- Human Chorionic Gonadotropin (hCG)
- Serotonin/5-hydroxyindoleacetic Acid (5-HIAA)

Hormone Metabolism

- Alcohol Consumption
- Adrenal Steroid Hormone Synthesis

Mechanisms of Elimination

Hormone Transport

- Solubility
- Carrier Proteins
- Micelles

Feedback Mechanisms

- Negative Feedback Mechanisms
- Positive Feedback Mechanisms

Primary, Secondary, and Tertiary Disorders

Other Factors That Affect Hormone Levels

- Emotional Stress
- Time of Day
- Menstrual Cycle
- Menopause
- Food Intake/Diet
- Drugs

References

KEY TERMS

Adrenocorticotrophic hormone (ACTH)
Amines
Diurnal variation
Effector/trophic hormone
Endocrine
Exocrine

Glucocorticoids
Growth hormone (GH)
Growth hormone-releasing hormone (GHRH)
Hormone
Hypothalamic-pituitary-thyroid axis
Mineralocorticoids

Peptides
Steroids
Thyroxine-binding globulin (TBG)
Trophic hormone
Tropic hormone

Basic Endocrinology

**United States. National Commission
on Diabetes**



Basic Endocrinology:

Basic Endocrinology Andrzej Bartke, Andrew Constanti, 2003-07 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

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

Essential Endocrinology C.R. Kannan, 2013-06-29 This work Essential Endocrinology A Primer for Nonspecialists is written with dual purposes in mind first to provide a framework of basic endocrinology and diabetology to the medical student and second to provide a quick concise and handy guide to the junior residents in their early years of training who wish to obtain a working knowledge about endocrine disorders that affect their patients One of the outstanding advantages of being a teacher of endocrinology to students and junior residents is that it bestows a perspective from a unique vantage point Books written for the junior members of our profession have suffered from extremes of caliber ranging from excellence beyond their comprehension to insufferable mediocrity Textbooks in endocrinology that are simple enough to cover the principles of that speciality and yet comprehensive enough without treading into controversial quicksand are few and far between This book is aimed at filling that gap and is written with no other criterion than simplifying a complex subject matter From this touchstone the work has never really departed A decade of experience as a teacher and physician in the field of endocrinology has impressed on me that the process of simplification rests on four basic principles an understanding of endocrine concepts the application of these concepts to the understanding of diseases the transference of knowledge to clinical situations and the integration of the patient with the laboratory the ultimate testing ground where clinical diagnoses stand or fall

Basic Endocrinology for Students of Biology and Medicine Jack Harold Upton Brown, Samuel Booth Barker, 1966

Essential Endocrinology and Diabetes Richard I. G. Holt, Neil A. Hanley, 2021-06-01 ESSENTIAL ENDOCRINOLOGY AND DIABETES The Essentials are an international best selling series of textbooks all of which are designed to support lecture series or themes on core topics within the health sciences See www.wiley.com for further details Essential Endocrinology and Diabetes provides the accurate and up to date knowledge required for treating all areas of endocrinology and diabetes covering the latest research clinical guidelines investigational methods and therapies This classic text explains the vital aspects of endocrine physiology in a succinct and easy to use format with full colour illustrations clinical images and case studies to assist readers in applying theory to practice The text covers the principles of endocrinology clinical endocrinology and clinical diabetes and obesity and has been revised throughout to present the most recent developments in the field The seventh edition includes new and updated material on the latest molecular techniques approaches to clinical investigation and diagnostics next generation sequencing technology and positron emission tomography PET The treatment of type 1 diabetes and type 2 diabetes has been

updated with clinical algorithms and reflects significant advances such as incretin based therapies SGLT2 inhibitors the development of better insulins and technologies that support self management Provides students and practitioners with comprehensive and authoritative information on all major aspects of endocrine physiology Covers diagnosis management and complications of clinical disorders such as endocrine neoplasia and type 1 diabetes and type 2 diabetes Explains the core principle of feedback regulation which is vital for the correct interpretation of many clinical tests Features case histories learning objectives recap links to chapter content cross referencing guides key information boxes and chapter summaries

Essential Endocrinology and Diabetes Seventh Edition is the ideal textbook for medical and biomedical students junior doctors and clinicians looking to refresh their knowledge of endocrine science 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 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 This title is also available as an e book For more details please see www.wiley.com buy 9781118763964 *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 companion during postgraduate clinical and scientific study It is accompanied by a FREE enhanced Wiley Desktop Edition the interactive digital version of the book featuring downloadable text and images highlighting and note taking facilities book marking cross referencing in text searching and linking to references and glossary terms

General and Comparative Endocrinology A.M. Schreiber, 2023-11-24 **General and Comparative Endocrinology** An Integrative Approach takes a holistic approach to endocrinology introducing students to the diverse facets of this interdisciplinary science ranging from the medical to comparative domains while also exploring evolutionary environmental and conservation specializations within the field The textbook is founded on the principle that students

interested in the health sciences will benefit from understanding how proficiency in endocrine function among a diversity of organisms contributes to advances in modern medicine Likewise students intrigued by comparative physiology will benefit from the wealth of knowledge derived from medical clinical endocrinology the historical bedrock of the field This textbook represents the modern field of endocrinology in its totality by addressing topics and recent advances not currently discussed in other introductory endocrinology textbooks

Key Features Introduces the broad and interdisciplinary scope of endocrinology Provides clear chapter objectives and key concepts Includes summary and synthesis questions for each chapter that are suitable for exams and quizzes Includes a chapter devoted to endocrine disrupting chemicals Describes the roles played by the endocrine system in important health challenges related to appetite regulation obesity diabetes and other diseases stemming from mismatches to modernity Integrates evolutionary and comparative approaches to hormones and health

Textbook of Endocrine Physiology Professor of Internal Medicine James E. Griffin M.D. Diana and Richard C. Strauss Professor of Biomedical Research, and Chief of Clinical Endocrinology in the Department of Internal Medicine University of Texas Southwestern Medical Center at Dallas, Division of Neuroscience Oregon Regional Primate Research Center/Oregon Health Sciences University Sergio R. Ojeda M.D. Head, 2004-04-08 This widely used text provides a thoroughly updated account of current knowledge in the endocrine sciences Each chapter is structured to cover both established concepts and recent developments The chapters are not only written at a consistent level and well integrated with one another but they also blend basic science with essential elements of clinical knowledge in order to give students an appreciation of the consequences of deranged endocrine function The Fifth Edition features completely new versions of the chapters on Cytokines and Immune Endocrine Interactions The Adrenal Glands and Calcium Homeostasis Many of the illustrations throughout the book are new or have been significantly revised to complement the text Fresh examples have also been included so that each chapter continues to show clearly the clinical consequences of deranged endocrine function Much new scientific information has been added on such topics as the nongenomic actions of steroid hormones relaxin receptors inhibin B steroid regulating element binding proteins IGF binding proteins transcriptional regulation of the developing adipocyte and the regulation of food intake and body weight

The Endocrine System at a Glance Ben Greenstein, Diana F. Wood, 2011-09-06 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 **Endocrine Pathophysiology** Eric I. Felner,Guillermo E. Umpierrez,2013-10-28 Endocrine Pathophysiology offers a comprehensive introduction to diseases of the endocrine system Rather than providing an overwhelming amount of content on one subject this book serves as a bridge between basic endocrine physiology and endocrine disorders Included in the text are case studies covering a variety of endocrine disorders in both inpatient and outpatient settings With the changes in many medical school curriculums to a clinically based curriculum this book provides a cutting edge approach to endocrine pathophysiology **Hearings United States. Congress. House,1961 Departments of Labor and Health, Education and Welfare Appropriations for 1962** United States. Congress. House. Committee on Appropriations. Subcommittee on Departments of Labor and Health, Education, and Welfare, and Related Agencies Appropriations,1961 *Report of the National Commission on Diabetes to the Congress of the United States: Contributors to the deliberation of the Commission* United States. National Commission on Diabetes,1976 **Report of the National Commission on Diabetes to the Congress of the United States** United States. National Commission on Diabetes,1976

Report of the National Commission on Diabetes to the Congress of the United States: Contributors to the deliberations of the Commission. pt. 1. Public testimony. pt. 2. Public testimony and biographical sketches United States. National Commission on Diabetes,1976 **Report of the National Commission on Diabetes to the Congress of the United States: Contributions to the deliberations of the commission; pt.1 Public testimony; pt.2 Public testimony and biographical sketches** United States. National Commission on Diabetes,1975 **Principles and Practice of Pediatric Endocrinology** Michael Steven Kappy,David B. Allen (Pediatric endocrinologist),Mitchell E. Geffner,2005 This first edition of Principles and Practice of Pediatric Endocrinology brings together 30 authors from 4 countries to present an update on the molecular basis of endocrine disorders in infants children and adolescents as well as the diagnosis and treatment of these conditions It is intended for the use of practitioners fellows and clinical and bench top researchers in this field and presents advances in each of 12 areas of the normal and abnormal endocrine state The work is a tribute to all those past and present whose research and clinical efforts resulted in the rapidly increasing accumulation of knowledge in this field and includes comprehensive practical clinical presentations in the form of an Atlas following each chapter after the comprehensive introductory chapter by Drs Root and Rogol This publication owes a great debt to Lawson Wilkins a Baltimore pediatrician who first formally established the separate discipline of pediatric endocrinology to Edwards Park Fuller Albright Bob Blizzard Claude Migeon Harold and Helen Harrison James Tanner and to so many others giants upon whose shoulders pediatric endocrinologists stand Disorders of growth and pubertal development are the cornerstones of pediatrics as they are present in many children with chronic illness as well as in children whose growth and pubertal development are influenced by genetics and family history These may have identifiable causes in pituitary thyroid adrenal or gonadal function and examples are well represented in this book Obesity and diabetes types I and 2 are likewise diseases of childhood that are becoming

increasingly and significantly prevalent and are included in this work Disorders of calcium phosphorus especially the often forgotten but not gone Vitamin D deficiency rickets and water metabolism are presented and errors of sexual differentiation an increasingly controversial issue are highlighted It is the hope of the editors that this work will assist the practitioner and researcher in this field in his or her efforts to diagnose treat and establish the etiology of endocrine disorders in infants children and adolescents

Clinical Chemistry: Principles, Techniques, and Correlations with Navigate Advantage Access Michael L. Bishop, Edward P. Fody, Carleen Van Siclen, James March Mistler, 2022-03-10 This edition carries on the tradition of excellence for this book If you are learning clinical chemistry or a practitioner wanting a contemporary refresher this book is for you Get it Valerie L Ng PhD MD Alameda County Medical Center and Highland Hospital Score 97 5 Stars

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Clinical Chemistry: Principles, Techniques, and Correlations with Navigate Advantage Access Michael L. Bishop, 2022-03-10 Medical Lab Science students need a strong foundation in applied chemistry need to learn and demonstrate mastery of the required knowledge skills and competencies as specified by certifying bodies and accreditation organizations to be prepared for certification and employment as a professional medical assistant ear explanations that balance analytic principles techniques and correlation of results with coverage of disease states For over 30 years and 8 editions Bishop has gained the reputation in the market as the trusted resource written by Clinical Lab Scientists specifically

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The book delves into Basic Endocrinology. Basic Endocrinology is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Endocrinology, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Basic Endocrinology
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- Chapter 3: Basic Endocrinology in Everyday Life
- Chapter 4: Basic Endocrinology in Specific Contexts
- Chapter 5: Conclusion

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