

ENDOCRINOLOGY

LECTURE 1

Coordination of physiological processes

- In a living organism there must be coordination of a number of physiological activities taking place simultaneously such as:
 - Movement, respiration, circulation, digestion, excretion and metabolism
- The CNS and endocrine system (communicates from one organ to end organs via the circulation) represent the 2 major means by which these functions are coordinated
- It is a form of long distance communication and short distance communication (the cell talking to itself)

Long Distance Communication:

- Communication between cells that are not in contact is achieved through a number of chemical substances, which are secreted by releasing cells and interacting with specific receptors on distant target cells
- Signalling through these receptors leads to a specific physiological effect

1. Endocrine Signalling

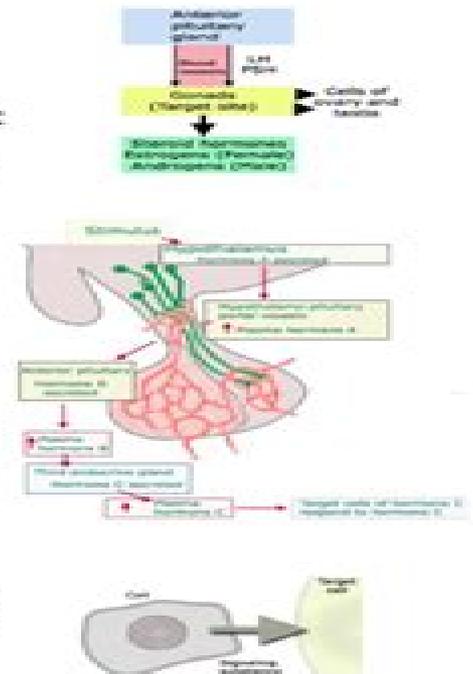
- Involves hormone secretion into the blood by an endocrine gland
- The hormone is transported by the blood to a distant target site → dedicated endocrine organs → upon binding, the primary hormone will release their own hormones to travel to end organs
- Upstream of the anterior pituitary gland is the hypothalamus
- Physiological negative feedback loops: end organs that produce hormones will give feedback and tell the pituitary to shut things down
- Long distance communication

2. Neuroendocrine Signalling

- Neuronal hypothalamus will release hypothalamic hormones, which will travel a short distance to the pituitary gland to communicate with specialized cells
- Long distance communication

3. Paracrine Signalling

- Cell will produce a hormonal factor which will go to a different cell that has the receptor for that hormone



Lecture Notes On Endocrinology

Yicheng Fang



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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 *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

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Diabetes is also essential for endocrinology trainees approaching the new Knowledge Based Assessment KBA

Lecture Notes on Endocrinology Kenneth Cecil Harrison,1967 Lecture Notes. Endocrinology and Diabetes Amir Sam,Karim Meeran,2009 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

Endocrinology and metabolism v.3 ,1922 *Endocrinology and Metabolism* Lewellys Franklin Barker,1922 **Physician's Book Compendium** ,1969 Over 10 000 monographs currently in print about practice and research in the medical and biomedical sciences Entries arranged by general medical specialties e g allergy geriatrics surgery then by subspecialties or other topics and then by authors Most entries include author title publisher publication date pages price and brief annotation Author index

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Endocrinology & Metabolism, March 2001 - February 2002 Paul W. Ladenson,2000-10 **Books in Print Supplement**
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