

# Regulatory peptides in clinical diagnosis

ELVAR THEODORSSON

Regulatory peptides are biologically active peptides present in specific endocrine cells widespread e.g. in the gastrointestinal tract or in neurones of both the central and peripheral nervous systems, frequently in co-existence with monoamines. Regulatory peptides present in nervous tissues are called neuropeptides.

Regulatory peptides appear in peptide families united by a common sequence of amino acids and similar biological activities. Furthermore, peptides are synthesised as large precursor molecules which are cleaved to smaller biologically active forms by specific enzymes or modified by addition of chemical groups. The immunological methods used to monitor peptide concentrations are usually specific for a small sequence of the peptide, a sequence which may be present in other family members. This means that when we mention the concentration or the biological activities of a regulatory peptide we frequently mean the overall impact of the peptide family in question, including precursor forms and metabolites.

The first regulatory peptide characterised was secretin described by Bayliss and Starling in 1902. The past two decades have seen an explosive increase in the number of regulatory peptides characterised. Their number is now well above 50. Regulatory peptides are believed to be involved in the regulation of a very large number of biological processes including nerve transmission in the central and in the peripheral nervous systems, control of the heart and the blood circulation, regulation of gastrointestinal functions, growth and many others. In nerve cells neuropeptides are synthesised in the cell body and it takes days or weeks for them to be transported to the site of release in the axon or dendrites of the neurone. This probably means that neuropeptides mainly serve a function of fine-tuning the function of neurones closely interacting with the monoamines contained in the neurones.

## Regulatory peptides in endocrine tumours

Since regulatory peptides are involved in a multitude of biological functions it would be logical for their functions to be deranged in a number of diseases. Measuring their concentrations in biological fluids could therefore

potentially be of diagnostic importance. However, measuring regulatory peptides has hereto only been found clinically useful in few but important clinical conditions. These are mostly neoplastic conditions, mainly endocrine tumours originating in cells of the gastrointestinal tract including carcinoid tumours, endocrine pancreatic tumours, multiple endocrine neoplasias, pheochromocytoma and neuroblastoma. Recent increase in the knowledge of the biopathological characteristics of the endocrine tumours has brought new treatment modalities some of which are based on treatment effects on peptidergic systems. Survival time is prolonged and there is an increased need for reliable tumour markers monitoring an increasing number of patients.

The sensitivity and specificity of the diagnosis of peptide producing endocrine tumours can be considerably improved if timed samples are taken in relation to symptoms, or stimulation tests are applied e.g. by meal or injection of pentagastrin.

## Regulatory peptides in non- endocrine disease states

Recent evidence indicates, however, that measurement of regulatory peptides can be of clinical importance in other and more common clinical conditions. Our own studies have shown that children with acute lymphoblastic leukaemia of B-precursor differentiation present with high concentrations of neuropeptide Y (NPY) in plasma correlating closely with the expression of CALLA (CD10) on leukaemic blasts. High concentrations of NPY in the plasma of these children correlated with a favourable prognosis in leukaemia. In children with leukaemia and lymphoma of B-cell precursor differentiation, plasma concentrations of NY followed the clinical course with decreased concentrations at remission and increase at relapse.

Atrium natriuretic peptide (ANP) is a peptide secreted from the atrial myocytes as a result of atrial distension. Acting as a paracrine agent and as a hormone ANP increases sodium and water excretion by the kidneys, thus acting as an endogenous diuretic. Mounting evidence indicates that elevated plasma concentrations of ANP constitute a very

# Regulatory Peptides In Paragang Volume 18

**Shlomo Melmed, Richard J.  
Auchus, Allison B. Goldfine, Clifford J.  
Rosen, Peter A. Kopp**

## **Regulatory Peptides In Paragang Volume 18 :**

**Pheochromocytoma (PHEO) and Paraganglioma (PGL)** Karel Pacak, David Taïeb, 2019-11-20 This book outlines some new advances in genetics clinical evaluation localization therapy newly including immunotherapy of pheochromocytoma and paraganglioma including their metastatic counterparts Well known and experienced clinicians and scientists contributed to this book to include some novel approaches to these tumors This book will serve to various health care professionals from different subspecialties but mainly oncologists endocrinologists endocrine surgeons pediatricians and radiologists This book shows that the field of pheochromocytoma paraganglioma is evolving and a significant progress has been made in last 5 years requiring that health care professionals and scientists will learn new information and implement it in their clinical practice or scientific work respectively This book should not be missed by anybody who is focusing on neuroendocrine tumors their newest evaluation and treatment

**Recent Advances in Pheochromocytoma and Paraganglioma: Molecular Pathogenesis, Clinical Impacts, and Therapeutic Perspective** Farhadul Islam, Ichiro Abe, Alfred King-yin Lam, Suja Pillai, 2021-10-14

**FDG-PET/CT vs. Non-FDG Tracers in Less Explored Domains, An Issue of PET Clinics, E-Book**

Sandip Basu, Rakesh Kumar, Abass Alavi, 2022-06-22 In this issue guest editors bring their considerable expertise to this important topic Provides in depth reviews on the latest updates in the field providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews

**Tumors of the Adrenal Gland and Extra-adrenal Paraganglia** Ernest E. Lack, Armed Forces Institute of Pathology (U.S.), Universities Associated for Research and Education in Pathology, 1997

**Blumgart's Surgery of the Liver, Pancreas and Biliary Tract E-Book** William R. Jarnagin, 2016-10-10 Extensively revised with new illustrations new clinical photos this classic text remains the most comprehensive and up to date resource on surgery of the hepatobiliary and pancreatic region Dr William Jarnagin and his team of internationally recognized surgeons continue the Blumgart's tradition of excellence bringing you the latest advances in diagnostic and surgical techniques You will find updates on the newest minimally invasive surgeries new interventional diagnostic techniques and complete coverage of all relevant diseases including those seen in the tropics Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform your clinical decision making Covers exactly what you need to know balancing basic science with information on clinical practice Presents cutting edge guidance on pathology diagnostics surgery and non operative intervention of the liver biliary tract and pancreas in a single comprehensive reference Covers the most recent non surgical therapies for pancreatic cancer microwave ablation and other emerging technologies Brings you up to date with recent developments in transplantation minimally invasive surgery percutaneous devices pre and post care blood transfusion and surgical techniques for the spleen Features an extensively revised art and illustration program with new anatomical line drawings including

hundreds now in color more than 750 new clinical photos more schematic diagrams that summarize information and new graphs and algorithms throughout **Bradley and Daroff's Neurology in Clinical Practice - E-Book** Joseph Jankovic, John C. Mazziotta, Scott L. Pomeroy, 2021-03-23 A practical dynamic resource for practicing neurologists clinicians and trainees Bradley and Daroff's Neurology in Clinical Practice Eighth Edition offers a straightforward style evidence based information and robust interactive content supplemented by treatment algorithms and images to keep you up to date with all that's current in this fast changing field This two volume set is ideal for daily reference featuring a unique organization by presenting symptom sign and by specific disease entities allowing you to access content in ways that mirror how you practice More than 150 expert contributors led by Drs Joseph Jankovic John C Mazziotta Scott L Pomeroy and Nancy J Newman provide up to date guidance that equips you to effectively diagnose and manage the full range of neurological disorders Covers all aspects of today's neurology in an easy to read clinically relevant manner Allows for easy searches through an intuitive organization by both symptom and grouping of diseases Features new and expanded content on movement disorders genetic and immunologic disorders tropical neurology neuro ophthalmology and neuro otology palliative care pediatric neurology and new and emerging therapies Offers even more detailed videos that depict how neurological disorders manifest including EEG and seizures deep brain stimulation for PD and tremor sleep disorders movement disorders ocular oscillations EMG evaluation cranial neuropathies and disorders of upper and lower motor neurons as well as other neurologic signs Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices [Recent Advances in Pheochromocytoma and Paraganglioma: Molecular Pathogenesis, Clinical Impacts, and Therapeutic Perspective, volume II](#) Farhadul Islam, Ichiro Abe, Suja Pillai, 2025-05-15 Pheochromocytoma and paraganglioma are the primary types of neuroendocrine tumors although they are relatively rare compared to other tumors originating from chromaffin tissue in the adrenal medulla and or autonomic nervous system ganglia Because they are so rare these tumors may go undiagnosed or undetected Associated symptoms like hypertension are disease non specific and may not clinically present themselves due to the fact that catecholamines can convert into their biologically inactive forms in the tumor reducing the appearance of other symptoms as well These tumors produce excessive catecholamines the effects of which are manifested through various cardiac related symptoms such as hypertension due to increased total peripheral resistance heart attacks despite no prior history non cardiogenic pulmonary shock oedema arrhythmias and sudden death In addition these tumors have been associated with pseudo obstruction of the bowels diabetic ketoacidosis and multisystem crises involving lactic acidosis The benign pheochromocytoma and paraganglioma can progress into highly malignant phenotypes many years after the initial diagnosis though the exact mechanisms of this are poorly understood These tumors are considered the most familial in humans with 25% of such tumors being hereditary and contain mutations in twenty nine associated genes Thus the genetic factors causing them are highly diverse making them extremely

heterogenic This Research Topic aims to present recent advances in Pheochromocytoma and Paraganglioma through our understanding of the underlying molecular and genetic spectrum of pheochromocytoma and paraganglioma and their clinical applications which could provide a better understanding of the disease improve the clinical impacts diagnosis and therapeutics We welcome reviews original research methods as well as perspective articles

**Williams Textbook of Endocrinology E-Book** Shlomo Melmed, Richard J. Auchus, Allison B. Goldfine, Clifford J. Rosen, Peter A. Kopp, 2024-04-03  
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Involvement of Bioactive Peptides in the Control of Cell Survival, Proliferation and Plasticity in Physiological and Pathological Conditions, 2nd Edition David Vaudry, Dora Reglodi, 2021-12-02 Publisher's note In this 2nd edition the following article has been added Editorial Involvement of Bioactive Peptides in the Control of Cell Survival Proliferation and Plasticity in Physiological and Pathological Conditions

**DeGroot's Endocrinology, E-Book** R. Paul Robertson, 2022-09-29  
Thoroughly updated to reflect today's recent advances in adult and pediatric endocrinology DeGroot's Endocrinology 8th Edition remains the comprehensive international reference of choice for today's endocrinologists and fellows A full peer review of the previous edition conducted by a largely new group of renowned editors was used to update this trusted two volume resource In depth coverage of both basic and clinical aspects of endocrinology and up to date information on the treatment and management of endocrine disorders are provided by a diverse group of expert contributors from six continents A full color format and helpful algorithms summarize clinical decision making and practical approaches to patient management Organizes content by all the glands that regulate the endocrine system while integrating basic science and

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Williams Textbook of Endocrinology, 14 Edition: South Asia Edition, 2 Vol SET - E-Book Shlomo Melmed,Ronald Koenig,Clifford J. Rosen,Richard J. Auchus,Allison B. Goldfine,2020-06-30 Williams Textbook of Endocrinology 14 Edition South Asia Edition 2 Vol SET E Book

Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 2-Volume Set - E-Book William R. Jarnagin,2022-09-13 Balancing basic science with information on everyday clinical practice Blumgart s Surgery of the Liver Biliary Tract and Pancreas 7th Edition provides you with expert guidance and advances in the field so you can offer patients the most optimal diagnostic and surgical care In two convenient volumes Dr William Jarnagin and his team of internationally recognized surgeons cover exactly what you need to know including advances in diagnostic and surgical techniques minimally invasive surgeries new interventional diagnostic techniques and all relevant diseases This comprehensive practical reference is designed to help you choose and perform the most appropriate procedures that will minimize inpatient hospital time curtail costs and reduce overall recovery time for your patients Presents cutting edge guidance on pathology diagnostics surgery and non operative intervention of the liver biliary tract and pancreas in one highly regarded authoritative reference Covers all surgical approaches both open and minimally invasive Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform clinical decision making Contains 161 chapters with updated references and additional figures more than 1 500 illustrations in all The imaging section has been reorganized to reflect a disease based approach Includes new and expanded sections on advances in molecular characterization of benign and malignant HPB diseases perioperative management interventional techniques minimally invasive surgery and robotics and therapeutic advances for malignant disease Features a section dedicated entirely to operative technique plus a new historical chapter authored by Professor Jacques Belghitti Hepatobiliary and Pancreatic Surgery Historical Perspective

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*Canine and Feline Endocrinology - E-Book* Edward C. Feldman, Richard W. Nelson, Claudia Reusch, J. Catharine Scott-Moncrieff, 2014-11-14 NEW Updated content includes the latest information on thyroid disease current imaging studies atypical Addison's disease atypical Cushing's disease idiopathic hypercalcemia in cats insulin therapy in dogs and cats diagnostics and treatments and radiotherapy NEW Integration of sound nutrition practices into the treatment of endocrine disorders ensures that you have the knowledge you need to efficiently treat these disorders NEW Expanded coverage provides more information on geriatric dogs and cats and the latest findings regarding the treatment of diabetes two factors which are often interrelated

*The Flesh and Bones of Medicine E-Book* Graeme Currie, Graham Douglas, 2015-11-19 The Flesh and Bones of Medicine presents a concise accessible account of general medicine and covers all the key concepts medical students need to know It can be used either as an introduction to a topic or as a revision aid Each body system starts with The Big Picture which gives a descriptive overview of a subject In the High Yield section 30 fundamental principles underlying each body system are set out These 30 principles are expanded into double page spreads in the Fleshed Out section where double page explanations of the key principles clearly convey what medical students need to know Difficult concepts are depicted by cartoon strip illustrations which enable rapid understanding and assimilation of information Big Picture Section enables readers to relate detail to the subject as a whole High Yield prevents students from having large gaps in their knowledge Can be used as a revision tool Reinforces the major points Cartoon strip illustrations enable students to visualize difficult concepts in a step by step format Allow information to

be chunked into student friendly sizes Double page overviews students can read summary of topic without cross referencing to other pages All laid out on one spread

**Kumar and Clark's Clinical Medicine E-Book** Adam Feather, David Randall, Mona Waterhouse, 2020-06-19 Now in its tenth edition Kumar David Randall MA MRCP and Mona Waterhouse MA MRCP Contributors comprise consultants at the top of their fields paired with younger doctors closer to the exam experience to ensure authority and relevance Enhanced e book accompanies the print book for ease of transportation and use on the move International Advisory Board led by Professor Janaka de Silva and Professor Senaka Rajapakse providing guidance for global coverage from across the world Contributions to the e book by members of the International Advisory Board to amplify areas of clinical importance in their parts of the world Featuring new chapters covering o Diagnosis the art of being a doctor helping readers to develop a confident clinical method in interactions with patients o Geriatric medicine frailty and multimorbidity o Public health o Surgery o Evidence based medicine o Sepsis o Haematological Oncology o Venous thromboembolic disease o Hypertension o Men's health o Obstetric medicine Enhanced clinical skills content has been added to most chapters helping readers tailor history taking and examination skills to specific specialty based contexts

**Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book** Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts atlases biochemical calculations multiple choice questions links to Medline an image collection and audio interviews You will now enjoy an online version making utility of this book even greater UPDATED Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the



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