

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

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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

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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

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 *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, 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 *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

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Gropper, Lars I. Eriksson, Lee A. Fleisher, Neal H. Cohen, Kate Leslie, Oluwaseun Johnson-Akeju, 2024-07-18 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Anesthesiology Pain Medicine Offering up to date coverage of everything from historical and international perspectives to basic science and today's clinical practice Miller's Anesthesia 10th Edition remains the 1 reference and trusted learning resource for practitioners and trainees in this complex field Dr Michael Gropper leads a team of expert editors and contributing authors who provide current information on the technical scientific and clinical issues you face each day whether you're managing a challenging patient care situation preparing for the boards or studying for recertification Addresses timely topics alongside foundational basic science for an in depth and comprehensive understanding of the field Contains thoroughly up to date content including two new chapters The Immune System Implications for Anesthetic Management and Emergency Preparedness in Healthcare Provides new content in key areas such as sustainability global health equity the effect of anesthetics on immune function anesthesia for special populations coverage of infectious diseases including COVID 19 and occupational exposure and safety Offers state of the art coverage of anesthetic drugs guidelines for anesthetic practice and patient safety new techniques step by step instructions for patient management the unique needs of pediatric patients and much more all highlighted by more than 1 200 full color illustrations 300 new to this edition for enhanced visual clarity Includes 40 video clips demonstrating patient positioning ultrasound echocardiograms and other imaging and anesthetic procedures in real time **Williams Textbook of**

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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 *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

Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Brenner and Rector's The Kidney E-Book* Maarten W. Taal,Glenn M. Chertow,Philip A. Marsden,Karl Skorecki,Alan S. L. Yu,Barry M. Brenner,2011-11-01 Overcome the toughest clinical challenges in nephrology with the new 9th edition of Brenner Rector s The Kidney A brand new editorial team of Drs Maarten W Taal Glenn M Chertow Philip A Marsden Karl Skorecki Alan S L Yu

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Cumulated Index Medicus, 1994 Encyclopedia of Endocrine Diseases, 2018-09-12 Encyclopedia of Endocrine Diseases Second Edition Five Volume Set comprehensively reviews the extensive spectrum of diseases and disorders that can occur within the endocrine system It serves as a useful and comprehensive source of information spanning the many and varied aspects of the endocrine and metabolic system Students will find a concise description of the physiology and pathophysiology of endocrine and metabolic functions as well as their diseases Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters explore the latest advances and hot topics that have emerged in recent years such as the molecular basis of endocrine and metabolic diseases mutations epigenetics signaling the pathogenesis and therapy of common endocrine diseases e.g. diabetes and endocrine malignancies new technologies in endocrine research new methods of treatment and endocrine toxicology disruptors Covers all aspects of endocrinology and metabolism Incorporates perspectives from experts working within the domains of biomedicine e.g. physiology pharmacology and toxicology immunology genetics and clinical sciences to provide readers with reputable multi-disciplinary content from domain experts Provides a one-stop resource for access to information as written by world-leading scholars in the field with easy cross-referencing of related articles to promote understanding and further research

Braunwald's Heart Disease E-Book Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest most reliable guidance in the field Braunwald's Heart Disease 11th Edition remains your 1 source of information on rapidly changing clinical science clinical and translational research and evidence-based medicine This award-winning text has been completely updated providing a superior multimedia reference for every aspect of this fast-changing field including new material about almost every topic in cardiology A unique update program by Dr Braunwald creates a living textbook by featuring weekly Hot off the Press and periodic Late Breaking Clinical Trials including links to authors' presentation slides More than a dozen new chapters cover Chronic Lung Disorders and Cardiovascular Disease Transcatheter Treatment of Congenital Heart Disease Approach to the

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Thrombolysis, and Blood Clotting: a Bibliography ,1974 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

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