

Shbg Sex Hormone Binding Globulin Serum

Genetic Determinants of Human Sex Hormone-binding Globulin Expression Kevin Neil Hogeveen 2003

Androgen Deficiency and Testosterone Replacement Wayne J.G. Hellstrom 2012-11-28 *Androgen Deficiency and Testosterone Replacement: Current Controversies and Strategies* explores the difficulties around the diagnosis and treatment of androgen deficiency. The text examines the available evidence concerning the diagnosis and treatment of men with low testosterone. It also examines controversies in the identification and management of these men. While the information contained within will be of use to those who specialize in androgen deficiency and sexual medicine, the scope of the book will serve as a source of basic information about testosterone replacement and as a source of reasoned analysis of the controversies surrounding testosterone replacement in the aging male. Physicians and physician extenders will be able to apply evidence management principles to the evaluation and treatment of men with testosterone deficiency; supported by the most recent practice guidelines available. The authors represent a select group of physicians with expertise in androgen deficiency and replacement. *Androgen Deficiency and Testosterone Replacement: Current Controversies and Strategies* will be of great value to all physicians and physician extenders who deliver health care to men of all ages.

Advances in Research and Applications Gerald Litwack 2000-01-27 Under the capable and qualified editorial leadership of Dr. Gerald Litwack, *Vitamins and Hormones* continues to publish cutting-edge reviews of interest to endocrinologists, biochemists, nutritionists, pharmacologists, cell biologists, and molecular biologists. First published in 1943, *Vitamins and Hormones* is the longest-running serial published by Academic Press. In the early days of the Serial, the subjects of vitamins and hormones were quite distinct. Now, new discoveries have proved that several of the vitamins function as hormones and many of the substances inferred by the title of the serial function in signal transduction processes. Accordingly, the Editor-in-Chief has expanded the scope of the serial to reflect this newer understanding of function-structure relationships in cellular communication. The Editorial Board now reflects expertise in the field of hormone action, vitamin action, X-ray crystal structure, physiology, and enzyme mechanisms.

Diagnosis and Management of Ovarian Disorders Albert Altchek 2003 This updated second edition of *Diagnosis and Management of Ovarian Disorders* provides thorough, yet succinct insight into the ever-changing realm of ovarian disorders. It presents a novel multidisciplinary approach to the subject as described by clinicians, surgeons, pathologists, basic scientists and related medical researchers. Topics covered include reproductive technology, early diagnosis of ovarian cancer, and management of menopause among others. The breadth of information provided by this book will appeal to clinicians and researchers involved in the study and treatment of ovarian disorders. **KEY FEATURES** * Includes updated information on early diagnosis of ovarian cancer * Reviews new diagnostic techniques for ovarian disorders * Discusses latest information on reproductive technology * Presents translational treatment linking laboratory research with clinical medicine

Testosterone and Aging Institute of Medicine 2004-03-12 Popular culture often equates testosterone with virility, strength, and the macho male physique. Viewed by some as an "antiaging tonic," testosterone's reputation and increased use by men of all ages in the United States have outpaced the scientific evidence about its potential benefits and risks. In particular there has been growing concern about an increase in the number of middle-aged and older men using testosterone and the lack of scientific data on the effect it may have on aging males. Studies of testosterone replacement therapy in older men have generally been of short duration, involving small numbers of participants and often lacking adequate controls. *Testosterone and Aging* weighs the options of future research directions, examines the risks and benefits of testosterone replacement therapy, assesses the potential public health impact of such therapy in the United States, and considers ethical issues related to the conduct of clinical trials. Testosterone therapy remains an attractive option to many men even as speculation abounds regarding its potential.

A Pilot Study on Investigation of Chinese Medicinal Classification and Its Relationship with Hormones in Menopausal Women Lam Lam 2017-01-26 This dissertation, "A Pilot Study on Investigation of Chinese Medicinal Classification and Its Relationship With Hormones in Menopausal Women" by Lam, Lam, [], was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. **Abstract:** Objective: To develop a validated questionnaire for the assessment of menopausal syndrome in Chinese Medicine and through the analysis of the basic menopausal syndrome classification in Chinese Medicine to explore the use of objective hormone markers as one of the evidence for the Chinese Medicinal classification and guidance for application of herbal medicines by Chinese Medicine Practitioners. Methods: The major symptoms related to typical syndromes of menopause were extracted from Chinese Medicine textbook, international diagnostic guide of Chinese Medicine, classic and contemporary literature of Chinese Medicine and subjective symptoms were eliminated to facilitate the administration of a self-reported outcome questionnaire. The symptoms related to menopause in Chinese Medicine were identified and redefined to improve the content validity. A total of 353 menopausal women were included in the study. Participants were assessed through face-to-face interview by registered Hong Kong Chinese Medicine Practitioner to complete the questionnaire and serum samples for hormones measurement were collected after an overnight fast in the morning of the assessment day. Serum Estradiol (E2), Testosterone (T), Progesterone (P), Luteinizing Hormone (LH), Follicle Stimulating Hormone (FSH) and Sex-Hormone Binding Globulin (SHBG) were measured by electrochemiluminescence immunoassays (ECLIA). Free estradiol (fE2), non-Sex-Hormone Binding Globulin bound Estradiol (non-SHBG-E2), free Testosterone (fT), and non-Sex-Hormone Binding Globulin bound Testosterone (non-SHBG-T) were calculated to assess hormone availability and activity. E2/T ratio was also calculated to investigate the balance of E2 and T in the body. Results: Principal Component Analysis (PCA) was conducted. Symptoms related to Deficiency of Yin and symptoms related to Deficiency of Yang were extracted and the relationship between the syndromes and E2, T, P, LH, FSH, SHBG, fT, non-SHBG-T, fE2, non-SHBG-E2 and E2/T ratio were investigated. For symptoms related to Deficiency of Yin, E2 (ppppor little with moderate and severe presentation of symptoms. For symptoms related to Deficiency of Yang, SHBG (p=0.042, p=0.002, pshowed an increase, fT (p=0.044, p=0.049, p=0.003) and non-SHBG-T (p=0.044, p=0.049, p=0.003) showed a decrease which was significant for other three groups while comparing to the no or little group. Conclusion: Menopausal Syndrome Questionnaire was developed and validated in the study. Major syndromes and symptoms involved in the diagnosis of menopausal syndrome in Chinese Medicine were identified and good test-retest reliability was also demonstrated. From the result, we hypothesize that the presentation of symptoms related to Deficiency of Yin may be closely correlated with the menopausal transition in Western Medicine and the presentation of symp

Acne Vulgaris Association with Serum Testosterone and SHBG Asma Javed 2017-06-16 Acne vulgaris remains one of the most common diseases affecting skin. Identification of precipitating factor is important because it will help in targeted treatment. Acne is a common clinical manifestation of hyperandrogenemia. Serum testosterone and sex hormone binding globulin (SHBG) are common androgens associated with acne severity. The available literature regarding the relationship of androgenicity and acne severity is not consistent in its conclusions. Over the last few years, adding anti androgen therapy in conventional acne treatment is a major discussion. This book, therefore, provides a negative association between serum testosterone and SHBG with acne severity. Three separate clinical presentations of acne severity categorised by using Global Acne Assessment Scale are investigated. The analysis should help shed some light on whether to investigate and give anti androgen therapy in the treatment of acne, and should be especially useful to professionals in the field of dermatology, cosmetology, endocrinology, general physicians and post graduate trainers of dermatology, or any one else who may be interested to get general information about acne vulgaris

Bioresponse-Linked Instrumental Analysis Bertold Hock 2001-01-12 Die wirkungsbezogene Analytik befasst sich mit der engen Kopplung von Biotests mit der chemischen Analytik. Hierbei werden die biomolekulare Erkennung, die im Organismus einen biologischen Effekt auslöst, und die chemische Analytik kombiniert. Dieses Buch behandelt Fortschritte in der analytischen Instrumentation von biologischen Makromolekülen, welche die

gekoppelten Technologien ermöglicht haben, insbesondere die automatische Kopplung von Bindungstests mit der chemischen Analytik.
Hormones and Aging Gerald Litwack 2021-03-09 *Hormones and Aging*, Volume 115 in the *Vitamins and Hormones* series, highlights advances in the field, with this new volume presenting timely topics, including hypothalamic aging and hormones, endocannabinoids and aging-inflammation, neuroplasticity, mood and pain, the impact of hormones and bone loss across the menopause transition, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Vitamins and Hormones* series Includes the latest information on *Hormones and Aging*

Androgen Action Fahri Saatcioglu 2011-08-09 Androgens play a critical role in the development and maintenance of the male reproductive system and affect important physiological processes and pathological conditions, including the homeostasis of the normal prostate and prostate cancer. *Androgen Action: Methods and Protocols* is designed to provide a tool box to study various phases of androgen action, from its entry to the cell to the phenotypic response that the cell mounts, with up-to-date techniques for biochemists, molecular biologists, cell biologists, geneticists, and pathologists. The volume opens with a brief review of the research history on androgen action and prostate carcinogenesis, followed by chapters that cover state-of-the-art methods to determine androgen levels in biological tissues and fluids, experimental procedures to study the various aspects of androgen receptor activity, and methodology to study salient examples of interactions between androgen signalling and other major signalling pathways in cells. Written in the successful *Methods in Molecular Biology*™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *Androgen Action: Methods and Protocols* provides a comprehensive overview of, and practical guidance on, the diverse methodologies that are propelling androgen action research forward, both for normal physiology as well as in disease states.

Favorable Changes in Serum Estrogens and Other Biologic Factors After Weight Loss in Breast Cancer Survivors Who Are Overweight Or Obese Carl Ying 2014 Background : Obesity is associated with an increased risk for recurrence and all-cause mortality in breast cancer survivors. Excess adiposity is associated with increased estrogen, insulin, and leptin, and with decreased sex hormone binding globulin (SHBG) concentrations, which may promote breast cancer progression and recurrence. This study aimed to assess the effects of weight loss on these factors. Patients and methods : Breast cancer survivors who were overweight or obese (n = 220) and who were enrolled in a weight loss intervention study provided baseline and follow-up blood samples and weight data. Serum estrogens, SHBG, insulin, and leptin were measured at baseline, 6 months, and 18 months. Results : Weight loss of ≥5% of initial weight decreased leptin and insulin compared with those who did not achieve that amount of weight loss (P

Management of Patients with Pseudo-Endocrine Disorders Michael T. McDermott 2019-09-26 Comprised of illustrative clinical cases, this unique pocket guide presents descriptions of patients who have symptoms, physical signs or laboratory abnormalities that they believe are due to disorders of the endocrine system (hormone secreting glands and overall metabolism) but which are not, or probably are not, due to an endocrine disorder. These are common situations in the clinical practice of endocrinology. Each chapter includes clinical cases illustrating differing presentations and outcomes, and each individual case description is followed by a discussion that includes the differential diagnosis of these symptoms, signs and/or lab abnormalities and why they are not likely due to endocrine disease or, alternatively, why and how a deeper exploration for endocrine disorders might be needed. In all cases, an emphasis is placed on listening to the patient and providing a respectful and compassionate response and approach to evaluation and management of the proposed disorder. Discussions are referenced whenever reference material is available, and evidence-based clinical practice guidelines are presented whenever applicable. Topics discussed include chronic and adrenal fatigue, obesity, anxiety and depression, sweating and flushing, alcohol- and opioid-induced symptoms, low testosterone, pseudo-hypoglycemia and pseudo-Cushing's syndrome, among others. Clinical endocrinologists, primary care physicians and related allied medical professionals will find *Management of Patients with Pseudo-Endocrine Disorders* a valuable resource in their clinical practice with these common but often challenging patients.

Endocrine Conditions in Pediatrics Takara Stanley 2020-09-25 This book is aimed at primary care providers who care for the pediatric age group (general pediatrician, the PCP working with pediatric patients, and family medicine providers) with the goal of covering the endocrine differential diagnosis of common signs and symptoms of possible endocrine disease as well as appropriate initial laboratory evaluation and interpretation. While multiple pediatric endocrine textbooks exist, most of them are heavy in coverage of physiology and rare diseases, with less discussion of practical steps in evaluation and diagnosis. This book distinguishes itself through a very practical approach. The first section is organized by presenting signs and symptoms, the second section is organized by laboratory interpretation, and the third section provides summaries of common pediatric endocrine disorders. Chapters are concise, providing critical clinical information including clinical pearls, common diagnoses and important points in patient counseling. Written by experts in the field, *Endocrine Conditions in Pediatrics* is a valuable resource that provides general pediatricians and other primary care providers with all of the information they need to provide superb patient care before transferring to a pediatric endocrinologist when necessary.

Prevalence of Low Serum Testosterone in Men with Type 2 Diabetes Attending Two Diabetes Clinics in Durban, South Africa Paruk Imran 2017 Aim: Data on the prevalence of low serum testosterone in men with type 2 diabetes mellitus (T2DM) from sub-Saharan Africa are scanty. The aim of this study was to determine the prevalence and associated risk factors of low serum testosterone in South African men with T2DM; the prevalence of androgen deficiency symptoms was also assessed. Methods: This was a cross-sectional study in men with T2DM attending two diabetes clinic in Durban. Androgen deficiency symptoms (ADS) were assessed using the Ageing Maleu2019s Symptom Scale (AMS) questionnaire. Serum total testosterone (TT), sex-hormone binding globulin (SHBG), leutinising hormone (LH), HbA1c, fructosamine and serum lipids were measured; free-testosterone (fT) was calculated with a standard formula. The control group included men without a history of diabetes. Low serum fT (LSFT) was defined as 180 pmol/l and low TT (LSTT) as

The Effects of Diet and Exercise on Insulin, Sex Hormone Binding Globulin and Serum Lipids Sheva Beth Tessler 1995

Norethisterone Viveca Odland 1980

Advanced Practice in Endocrinology Nursing Sofia Llahana 2019-02-26 This book provides a comprehensive guide for nurses practicing in any area of endocrinology and at any level of expertise. Endocrinology Nursing is a fast-developing specialty with nurses performing advanced roles and expanding their practice to run independent nurse-led services. Supported by the European Society of Endocrinology (ESE) and edited by members of the ESE Nurses Working Group, this is the first book ever published specifically for endocrine nurses. It is also an excellent resource for endocrinology specialty trainees, general practitioners, medical and nursing students, expert patients and nurses working in specialties such as fertility, osteoporosis, oncology, obesity, urology and gynaecology, who look after patients with endocrine-related disorders. This volume includes 13 sections and 69 chapters providing a comprehensive overview of adult and paediatric endocrinology but also a section on advanced practice, role development and nursing research. It has been written by an international team of more than 100 eminent nurses, physicians, surgeons, psychologists and other healthcare professionals, which makes this book a valuable resource for any multidisciplinary team. Many patient advocacy groups have contributed with case studies which emphasises the close working relationships with patients.

Androgens and the Aging Male B.J. Oddens 1996-11-15 While menopause in women is a well-established and well documented phenomenon, the andropause in men is a relatively new concept. The terms male menopause and andropause suggest that this is an abrupt phenomenon related to a sudden deprivation of sex hormones. Unlike the menopause, which has a relatively sudden onset, the andropause appears to be a gradual process. It has been hypothesized that an androgen deficiency might develop with aging. *Androgens and the Aging Male* explores this hypothesis. The book focuses on the gradually progressive problems related to the decline in androgens that can occur with advancement of age. It examines the debate about the extent to which an age-dependent decline in androgens leads to health problems that affect or impair the quality of life, and the theory behind it. In addition, it reviews studies evaluating the effects of androgen supplementation. *Androgens and the Aging Male* comprehensively covers androgen function and how it changes over time.

Adrenergic Receptors in Man Paul A. Insel 1987

Controversies in Testosterone Deficiency John P. Mulhall 2021-07-07 This book aims to address a number of controversies concerning the use of testosterone treatment. It explains topics that clinicians regularly encounter such as whether to use free or total testosterone in the evaluation of the patient with testosterone deficiency; what factors actually impact testosterone levels, polycythemia, gynecomastia, bone density, and hyperprolactinemia in the testosterone deficient patient; critical analysis of the numerous questionnaires that are available to clinicians; and the impact of testosterone therapy on male fertility, cardiovascular disease, and prostate events including prostate cancer. Guiding the reader in both evaluation and management, the book also illuminates novel concepts in the T space such as testosterone use in the transgender population, T therapy as an endothelial modulator, bipolar testosterone therapy in the patient with advanced prostate cancer, and testosterone therapy as a performance enhancer. *Controversies in Testosterone Deficiency* is intended for any clinician involved in the care of patients with testosterone deficiency, exploring hot topics and correcting existent misinformation in the routine care of patients.

Steroid-protein Interactions Ulrich Westphal 1971

Western Diseases Norman J. Temple 2012-12-06 Sir Richard Doll, FRS, FRCP ICRF Cancer Research Studies Unit Radcliffe Infirmary, Oxford, UK The twentieth century has seen few changes more remarkable than the improvement in health that has occurred nearly everywhere, most spectacularly in the economically developed countries. In these countries improved nutrition, better housing, the control of infection, smaller family sizes, and higher standards of education have brought about a situation in which more than 97% of all liveborn children can expect to survive the first half of the three score years and ten that formerly was regarded as the allotted span of life. From then on, however, the position is less satisfactory. Some improvement has occurred; but the proportion of survivors who die prematurely, that is under 70 years of age, varies from 25% to over 50% in men and from 13% to 28% in women, the extremes in both sexes being recorded, respectively, in Japan and Hungary. Most of these deaths under 70 years of age must now be called premature, even in Japan. For most of them are not the result of any inevitable aging process, but instead are the consequences of diseases (or types of trauma) that have lower-often much lower-age-specific incidence rates in many of the least developed countries.

Hormones, Metabolism and the Benefits of Exercise Bruce Spiegelman 2018-03-07 The world is faced with an epidemic of metabolic diseases such as obesity and type 2 diabetes. This is due to changes in dietary habits and the decrease in physical activity. Exercise is usually part of the prescription, the first line of defense, to prevent or treat metabolic disorders. However, we are still learning how and why exercise provides metabolic benefits in human health. This open access volume focuses on the cellular and molecular pathways that link exercise, muscle biology, hormones and metabolism. This will include novel "myokines" that might act as new therapeutic agents in the future.

Androgenic Disorders Geoffrey P. Redmond 1995

Steroid Binding to Sex Hormone-binding Globulin Anie Philip 1986

SEX HORMONES IN DRUG-NAIVE, FIRST-EPIISODE PATIENTS WITH PSYCHOSIS Andreas Karampas 2017 Sex differences have long been reported in schizophrenia leading to the hypothesis that sex hormones may be implicated in the pathophysiology of the disorder. We assessed gonadal hormones during the fasted state in drug-naive patients with psychosis. Fasting serum concentrations of follicular-stimulating hormone (FSH) and luteinizing hormone (LH), testosterone, free-testosterone, Sex Hormone Binding Globulin (SHBG) and estradiol (E2) were compared between a group of 55 newly diagnosed, drug-naive, first-episode men with psychosis and a group of 55 healthy controls, matched for age, smoking status and BMI. Testosterone and free-testosterone levels were significantly lower in the patientsu2019 group and SHBG levels significantly higher in the patientsu2019 group compared to those in healthy controls. Testosterone, free-testosterone and SHBG were compared between a group of 32 drug-naive, first-episode females with psychosis and a group of 32 healthy controls matched for age, smoking status and BMI. The groups had similar values in the hormones which were measured.

Endocrinology of the Testis and Male Reproduction Manuela Simoni 2017-09-18 This book provides a comprehensive overview of endocrinology of the male reproductive system, explaining how it works and how, sometimes, it fails to work. World-class specialists present state of the art knowledge on all aspects, including anatomy, physiology, molecular biology, genetics, pathophysiology, clinical manifestations of testicular diseases, endocrine aspects of andrological and sexual diseases, and therapy. Extensive consideration is given to sexual development, testicular function, the clinical approach to disorders of male reproduction, male hypogonadism, sexual dysfunction, and male infertility. In addition, sociodemographic, psychological, and ethical aspects of male reproductive disorders are discussed. The book is intended as a major reference for endocrinologists, andrologists, and sexologists, as well as basic and clinical scientists. It is published as part of the SpringerReference program, which delivers access to living editions constantly updated through a dynamic peer-review publishing process.

Sex Hormones in Neurodegenerative Processes and Diseases Gorazd Drevensek 2018-05-02 The book provides chapters on sex hormones and their modulation in neurodegenerative processes and pathologies, from basic molecular mechanisms, physiology, gender differences, to neuroprotection and clinical aspects for potential novel pharmacotherapy approaches. The book contains 14 chapters written by authors from various biomedical professions, from basic researchers in biology and physiology to medicine and veterinary medicine, pharmacologists, psychiatrist, etc. Chapters sum up the past and current knowledge on sex hormones, representing original new insights into their role in brain functioning, mental disorders and neurodegenerative diseases. The book is written for a broad range of audience, from biomedical students to highly profiled medical specialists and biomedical researchers, helping them to expand their knowledge on sex hormones in neurodegenerative processes and opening new questions for further investigation.

Clinical Gynecology Eric J. Bieber 2015-04-23 Written with the busy practice in mind, this book delivers clinically focused, evidence-based gynecology guidance in a quick-reference format. It explores etiology, screening, tests, diagnosis, and treatment for a full range of gynecologic health issues. The coverage includes the full range of gynecologic malignancies, reproductive endocrinology and infertility, infectious diseases, urogynecologic problems, gynecologic concerns in children and adolescents, and surgical interventions including minimally invasive surgical procedures. Information is easy to find and absorb owing to the extensive use of full-color diagrams, algorithms, and illustrations. The new edition has been expanded to include aspects of gynecology important in international and resource-poor settings.

Male Hypogonadism Stephen J. Winters 2003-12-12 Recent advances in cellular and molecular biology have markedly increased our understanding of normal and abnormal hypothalamic-pituitary-testicular function. Like other volumes in the Contemporary Endocrinology series, the goal of *Male Hypogonadism: Basic, Clinical, and Therapeutic Principles* is to link current knowledge of basic biology to the practice of medicine. The development of new methods for testosterone replacement has substantially increased the number of men who are seeking to determine whether they are hypogonadal, and who are using testosterone replacement therapy, thus mandating a broader understanding of testosterone deficiency. The chapters of this book were contributed by authors from around the world, and from various scientific and clinical disciplines, who have devoted their careers to the study of the physiology and pathophysiology of the male. Thus, this comprehensive and focused volume is intended for a wide audience encompassing both basic scientists and practicing clinicians. Its scope will provide a wealth of information for students and fellows as well.

Contemporary Gynecologic Practice Atef Darwish 2015-02-04 Gynecology is frequently changing due to extensive implementation of high technology in both, the diagnosis and management of gynecologic problems. General gynecologists, gynecologic endocrinologists, infertility specialists, gynecologic endoscopists, and gynecologic oncologists will find attractive, new information in this book.

Human Sex Hormone-binding Globulin Modulates the Biological Activity of Its Ligands in Vitro and in Vivo [microform] Heather Lynne Hodgert Jury 2001 The regulation of sex steroid bioavailability at the target tissue level is a result of the interaction of these hormones with plasma proteins. In particular, the interaction of sex steroids with human sex hormone-binding globulin (SHBG), a protein with high affinity and low capacity for steroids, is important in determining the bioavailability of sex steroids at the tissue level. Previous studies have shown that certain nonsteroidal compounds interact with the SHBG steroid-binding site, and I have therefore developed a screening assay to identify natural and synthetic

compounds that bind SHBG. This assay uses undiluted human serum and therefore has the advantage of identifying possible interactions with other serum proteins by comparing results in this assay versus conventional assays, therefore providing insight into the factors that contribute to the bioavailability of endocrine active compounds within the body. A limited number of in vitro studies have shown that it is the non protein-bound steroid fraction that is biologically active, consistent with the free hormone hypothesis, but these studies cannot model tissue blood flow and transit time. Additionally, there is evidence that SHBG may have a direct influence on the actions of its ligands as a result of targeted delivery. Rodents are often used as in vivo models for estrogen action, however they lack SHBG in the blood as adults. I have therefore made use of transgenic mice that express human SHBG transgenes and have various levels of human SHBG in their blood to assess the effects of SHBG on estrogen action by measuring uterine hypertrophy following administration of pharmacologically relevant estrogens, and by monitoring the incidence of chemically-induced mammary tumours that are known to be estrogen-dependent. Immunohistochemical analysis of uteri harvested from these mice revealed an estrogen-dependent accumulation of SHBG in the endometrial stroma. The extracellular matrix protein fibulin-2, which is known to interact with SHBG in vitro was found to have a similar localization pattern in the mouse uterus following estrogen stimulation. These data indicate that fibulin-2 is involved in the extravascular sequestration of SHBG in the mouse uterus and that this interaction can be regulated in an SHBG ligand-dependent manner.

Hormones and Breast Cancer Malcolm C. Pike 1981

Testosterone Alexandre Hohl 2023 Even though research on testosterone is increasing, there is still much controversy regarding its physiology and clinical use. This book provides a broad overview on testosterone, from its basic features to the most recent evidence of clinical applicability. In addition, specific conditions in which testosterone play a pivotal role are discussed in detail, such as hypogonadism, misuse and abuse, puberty, cardiovascular effects and testosterone therapy. The testes are vital organs for reproduction of the human species, besides being the main source of testosterone production in men. Although not essential for survival, these singular structures represent the essence of male biological function. Testosterone is the most important testicular androgen in men. Low serum testosterone levels are associated with cardiovascular morbidity, metabolic syndrome, type 2 diabetes mellitus, atherosclerosis, osteoporosis, sarcopenia, and mortality. Also, there is increasing evidence that serum testosterone is a major biomarker status of men's health in general. Hypogonadism in a male refers to a decrease in one or both of the two major functions of the testes: sperm production or testosterone production. These abnormalities can result from disease of the testes (primary hypogonadism) or disease of the pituitary or hypothalamus (secondary hypogonadism). Currently, the clinical features of male hypogonadism are sufficiently well-recognized, the causes are well-known, and the tests of the hypothalamic-pituitary-testicular axis are accurate enough for the diagnosis in most patients. Testosterone, the focus hormone of this book, is used in different forms and routes of administration. Several authors unravel its peculiarities and assist in choosing the most suitable form in each case, as well as the possible risks of its misuse or even abuse in men and women, seeking alternatives to help patients in this situation.

Estrogen Responsive Breast Cancer Growth Regulation 1995 The overall goal of this program was to characterize the serum factor(s) which regulated steroid hormone dependent human breast cancer cell growth. This included an identification of the molecule(s) and studies to establish the endocrine physiology of the regulator(s) as well as partial characterization of the receptors mediating serum factor action. We have discovered that two plasma glycoproteins, SHBG Type II and CBG, are negative regulators (i. e. inhibitors) of estrogen receptor positive (ER+) and progesterone receptor positive (PR+) breast cancer cell growth, respectively, and that autonomous (ER- and PR-) breast cancer cells are not inhibited by these glycoproteins. The new form of sex hormone binding globulin has been designated SHBG Type II. It has not previously been identified or characterized from any source. The discovery of a new regulatory role for CBG in breast cancer growth may provide our first molecular link between increased stress and an elevated risk of breast cancer.

Testosterone Susan Nieschlag 2012-12-06 New developments in testosterone therapy are summarized here by internationally renowned experts. They review both basic and clinical knowledge in fourteen chapters. The book begins with the biochemistry of testosterone, its biosynthesis, metabolism and mechanisms of action in target organs. Three chapters deal with specific aspects of testosterone action, namely its role in spermatogenesis, its psychotropic effects and its effects on bones. Syndromes caused by androgen resistance are described in order to highlight the importance of properly functioning enzymes and receptors in the target organs. Causes and symptoms of male hypogonadism, the major indication for testosterone treatment, are described. Five chapters are devoted to the pharmacology, pharmacokinetics and clinical uses and abuses of testosterone preparations. The new transdermal testosterone application is described in detail. Side effects of testosterone treatment are reviewed. The possible role of androgens in the development of prostatic hypertrophy and carcinoma is discussed extensively since this question is of major concern to the clinician.

Sex Hormonal Profile During The Development From Endometrial Hyperplastic Disease To Endometrial Cancer Yue Shi 2017 Purpose To investigate the endocrine characteristics and abnormalities through the development from endometrial hyperplasia to endometrial cancer Patients and Methods A total of 1488 women were enrolled, including 768 healthy women, 103 patients were diagnosed with disordered proliferative endometrium (DPE), 206 with simple hyperplasia (SH), 158 with complex hyperplasia (CH), 131 with atypical endometrial hyperplasia (AEH), and 122 with endometrial carcinoma (EC) (G1, G2). Serum sex hormone panel including sex hormone binding globulin (SHBG), serum estradiol (E2), progesterone (P), testosterone (T), follicle-stimulating hormone (FSH), and luteinizing hormone (LH), fasting blood glucose (FBG), fasting serum insulin (FINS) and body mass index (BMI) were evaluated. Results Physiologically, text-book hormonal profiles were confirmed with our study in control group. Significant differences were found among different stages during disease progression for all endocrine factors except for testosterone. Further multivariate logistic regression test holding age constant noted estradiol elevation were observed only in pre-malignant stage, while progesterone decrement persisted from DPE to EC. Disease progression seemed only associated with total E2 level instead of the free form. BMI gradually increased and peaked at EEC, with both median and mean levels higher than 25kg/m². In multivariate analysis, obesity, SHBG and IR were shown to be most associated with the disease progression. Conclusion: Estrogen was observed to be consistently increased starting from DPE and peaked in the group of AEH while decreased sharply once the disease progressed into EC. We hypothesized This is indicating an analogy for estrogen as a guider in theater, once the audience is seated in the seat of u201ccanceru201d, the guider left immediately. Our study further addressed that obesity is the most critical risk factor for EC, instead of estrogen exposure.

Endocrinology of Physical Activity and Sport Anthony C. Hackney 2020-02-26 Now in its fully revised and expanded third edition, this comprehensive text represents a compilation of the critical endocrinology topics in the areas of sports medicine, kinesiology and exercise science, written by leading experts in the field. As in previous editions, the focus here is on the critical issues involved in understanding human endocrinology and hormonal workings with regards to physical activity, exercise and sport and how such workings impact the full range of medical conditions, overall health and physiological adaptation. Chapters included discuss the effect of exercise on the HPA axis, the GH-IGF-1 axis, thyroid function, diabetes, and the male and female reproductive systems, among other topics. Additional chapters present the current evidence on circadian endocrine physiology, exercise in older adults, exercise and hormone regulation in weight control, and the effects of overtraining in sports. Chapters brand new to this edition present the role of hormones in muscle hypertrophy, the effect of exercise on hormones in metabolic syndrome patients, how exercise impacts appetite-regulating hormones in clinical populations, and the relative energy deficiency in sport (RED-S) condition.

Sex Differences in Sports Medicine Ellen Casey, MD 2016-05-28 This is the first book dedicated to the musculoskeletal, physiological, hormonal, and other differences between the sexes as they manifest in sports medicine. Organized anatomically from head to toe, this unique reference focuses on the sex-specific differences of men and women to inform clinical care and the management of common sports injuries. Other chapters cover nutrition, hormones, concussion, pain, sports cardiology and pulmonology, and the particular care of adolescent and geriatric patients. The editors have assembled a world-class team of specialists to collaborate on each chapter, and specially commissioned illustrations and tables help visualize the data and findings. While some books focus on "the female athlete" as a discrete category, this book discusses how the many physical stresses of

athletics affect both sexes based on the inherent biological differences. The goal is to foster a more comprehensive understanding of the latest research and practice in sports medicine as it applies to all patients. As the field of sports medicine has grown exponentially over the last few decades, this book will serve as an essential resource for physicians, trainers, coaches, and anyone involved in athletics and medicine. Key Features: Provides an evidence-based review of how sex differences affect the risk of injury, presentation, and clinical course of sports-related injuries Anatomically based chapters highlight differences in static structures, dynamic movement, and pathology between the sexes Authors summarize key differences at the end of each chapter Includes special chapters on running and throwing, sports cardiology, sports pulmonology, nutrition, and unique athlete populations

Vitamins and Hormones 2005-09-07 First published in 1943, VITAMINS AND HORMONES is the longest-running serial published by Academic Press. In the early days of the Serial, the subjects of vitamins and hormones were quite distinct. The Editorial Board now reflects expertise in the field of hormone action, vitamin action, X-ray crystal structure, physiology, and enzyme mechanisms. Under the capable and qualified editorial leadership of Dr. Gerald Litwack, VITAMINS AND HORMONES continues to publish cutting-edge reviews of interest to endocrinologists, biochemists, nutritionists, pharmacologists, cell biologists, and molecular biologists. Others interested in the structure and function of biologically active molecules like hormones and vitamins will, as always, turn to this series for comprehensive reviews by leading contributors to this and related disciplines. *Includes color illustrations *Available on ScienceDirect *Longest running series published by Academic Press *Contributions by leading international authorities

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