

Very Low Sex Hormone Binding Globulin

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.

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.

Insulin Resistance Gerald M. Reaven 1999-04 In *Insulin Resistance: The Metabolic Syndrome X*, outstanding investigators thoughtfully summarize our current understanding of how insulin resistance and its compensating hyperinsulinemia (Syndrome X) play a major role in the pathogenesis and clinical course of high blood pressure and cardiovascular disease-the so-called diseases of Western civilization-as well as polycystic ovary disease. Under the aegis of Gerald Reaven, the discoverer of Syndrome X, the distinguished authorities writing here detail for the first time the pathophysiological consequences and the clinical syndromes, excluding Type 2 diabetes, related to insulin resistance. They also examine the genetic and lifestyle factors that contribute to the wide differences in insulin action that exist in the population at large. Each author has been encouraged to present a point of view that reflects their unique insights. The first authoritative book on the subject, *Insulin Resistance: The Metabolic Syndrome X* illuminates the special importance of insulin resistance as a major cause of hypertension, heart disease, and polycystic ovary syndrome. Its thoughtful and detailed approach will make it an essential reference for basic and clinical researchers seeking to understand these critical phenomena.

Hormones and Breast Cancer Malcolm C. Pike 1981

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

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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.

Androgen Deficiency in The Adult Male Malcolm Carruthers
2004-08-30 Just what is the andropause? Although acceptance of the andropause concept by the medical community is growing, it is still a hotly debated issue. But as a busy clinician you have patients to treat and you need information. So where can you find the information you need to understand, diagnose, and treat this condition? *Androgen Deficiency in the Adult Male: Causes, Diagnosis and Treatment* distills the knowledge acquired by author Dr. Malcolm Carruthers in his 25 years of research and clinical experience in diagnosing and treating the andropause into a comprehensive, detailed clinical resource. Dr. Carruthers documents the history of the search for testosterone treatment from antiquity to the awarding of the Nobel Prize to Adolf Butenandt and Leopold Ruzicka for synthesizing testosterone and patenting its production some 4,000 years later. He discusses the causes of androgen deficiency, the male menopause or andropause, and recent advances in its diagnosis. The text includes reviews of the literature in each section and a fund of bibliographic references gleaned from the author's years of research in this field. This combination of features makes *Androgen Deficiency in the Adult Male: Causes, Diagnosis and Treatment* an invaluable and practical clinical guide, a complete and detailed reference volume, and a cohesive and readable textbook.

Sex Hormones in Neurodegenerative Processes and Diseases

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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.

Bioidentical Hormone Replacement Therapy Rudy Dragone 2014-02-21 All through our lives we are plagued with certain truths, we are born, we live and we die. Many of us live life never really having great health. Everywhere you turn these days you hear and see more and more news and advertising about Hormone Replacement Therapies (HRTs). From large pharmaceuticals marketing the latest synthetic low testosterone replacement roll-on to celebrities extolling the virtues of Bioidentical Hormone Replacement Therapy, (BHRT) as a virtual fountain of youth. The truth is there are a lot of mistruths about the role bioidentical hormones can have in the cure of several sever symptoms; the overall wellbeing of your patients and safety concerns about their use. This book is to serve as a guide to understanding the role hormones have in assessing symptoms that may be aggravated by hormonal imbalances or deficiencies. The last half of this book contains a clinical reference guide to help healthcare practitioners check for hormonal imbalances and recommend dosing of bioidentical hormones in the treatment of

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their patients. The goals of this book are to: 1. Educate healthcare professionals about the role of hormones in the wellness of their patients. 2. Educate the public of the significant role hormonal imbalances can play in their overall wellness. 3. Provide the necessary tools to determine if bioidentical hormone replacement therapies are appropriate for your patients. 4. Help expand healthcare practices through referrals by happy, healthy patients and bioidentical hormone replacement therapies that improve patient lives while making sound business sense to your practice. The roll that bioidentical hormone replacement therapy has in overall wellbeing for millions of people is simply remarkable.

Testosterone Deficiency in Men Hugh Jones 2008-09-25 This book provides a background of essential knowledge on testosterone deficiency in men, including diagnosis and treatment. It also explores the associations of testosterone deficiency with organ systems and their diseases e.g diabetes, osteoporosis.

Endocrinology of Aging John E. Morley 1999-11-05 Distinguished physicians critically review the clinical consequences of the endocrinological changes that occur with aging-in both men and women-and examine the use of hormonal therapy to reduce them. Topics range from bone disease and water balance in all older people, to androgen deficiency in aging males, gynecomastia, and menopause. The authors also discuss Type II diabetes in persons over 65, emphasizing the cognitive benefits of good glycemia control, and the interaction of nutrition and metabolism, focusing on hypocholesterolemia, obesity, the anorexia of aging, trace elements, and vitamins. The aging of the sympathetic nervous system and its impact on hypertension in the elderly is also covered. Timely and authoritative, *Endocrinology of Aging* offers endocrinologists, geriatricians, and primary care physicians critical insight into the endocrine problems of our rapidly growing elderly population.

Vitamins and Hormones 2005-09-07 First published in 1943, VITAMINS AND HORMONES is the longest-running serial

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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

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

Global Perspectives on Childhood Obesity Debasis Bagchi 2010-10-12 Understanding the complex factors contributing to the growing childhood obesity epidemic is vital not only for the improved health of the world's future generations, but for the healthcare system. The impact of childhood obesity reaches beyond the individual family and into the public arenas of social systems and government policy and programs. **Global Perspectives on Childhood Obesity** explores these with an approach that considers the current state of childhood obesity around the world as well as future projections, the most highly cited factors contributing to childhood obesity, what it means for the future both for children and society, and suggestions for steps to address and potentially prevent childhood obesity. This book will cover the multi-faceted factors contributing to the rapidly growing childhood obesity epidemic The underlying causes and current status of rapidly growing obesity epidemic in children in the global scenario will be discussed The strategies for childhood obesity prevention and treatment such as physical activity and exercise, personalized nutrition plans and school and community involvement will be presented

Steroid-protein Interactions Ulrich Westphal 1971

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

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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

Immunoassay Eleftherios P. Diamandis 1996-06-21

Immunoassays are among the most powerful and sensitive technologies now available for patient diagnosis and monitoring. This book is an indispensable guide to information on the theory and practice of immunoassays. It discusses the scientific basis of these technologies in a logical, organized, and heuristic manner and provides protocols for specific assays. The contents of this unique book are balanced among theory, practical issues, quality control, automation, and subspecialty areas, making it ideal for health science students, laboratory scientists, and clinicians. Presents up-to-date information Provides extensive cross-referencing Covers theory and practice in full detail Written by leading authorities

Trends in Oral Contraception R.F. Harrison 2013-11-08 After 20 years of oral contraceptive (OC) use, epidemiological data and scientific research have led to the now accepted evidence that the most important effect produced by these drugs on humans, other than the prevention of unwanted pregnancy, is an increase in the risk of cardiovascular disease. Because the incidence of cardiovascular disease is also related to disturbances of the lipoprotein metabolism, it appears to be opportune to analyse the different aspects of the interaction between female hormones and lipoprotein (LP) metabolism. SERUM LIPOPROTEINS: METABOLISM In the serum, lipids (cholesterol (C), triglycerides (TG), and phospho lipids) are associated with peptides called apoproteins: apoproteins A-I, A-11, B, C, etc. The chylomicrons and the very low density lipoproteins (VLDL) are rich in TG and

contain the Apo B-48; the low density lipoproteins (LDL) are rich in C and contain the Apo B- 100; and the high density lipoproteins (HDL) are rich in proteins (Apo A-I, Apo A-II) and phospholipids.

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.

MEN'S HORMONES MADE EASY!: How to Treat Low Testosterone, Low Growth Hormone, Erectile Dysfunction, BPH, Andropause, Insulin Resistance, Adrenal Fatigue, Thyroid, Osteoporosis, High Estrogen, and DHT! J.M. Swartz M.D.

2015-03-09 [Learn how to] prevent and reverse menopause, prostate issues, heart disease, and cancer. See how hormone issues at any age may wreck your relationship, make you fat, and accelerate aging and death. Learn how to safely improve your sexual performance, increase your energy, motivation, and sex drive, and strengthen muscles and bones. ... [This book] will show you how to create the kind of lifelong health that will allow you to pursue your passions in life. You will look great, feel great, lose weight, and have better sex! --Page 4 of cover.

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,

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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.

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

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field of hormone action, vitamin action, X-ray crystal structure, physiology, and enzyme mechanisms.

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

Polycystic Ovary Syndrome Andrea Dunaif 2008-01-12 This volume includes the latest diagnostic criteria for PCOS and comprises the most up-to-date information about the genetic features and pathogenesis of PCOS. It critically reviews the methodological approaches and the evidence for various PCOS susceptibility genes. The book also discusses additional familial phenotypes of PCOS and their potential genetic basis. All four editors of this title are extremely prominent in the field of PCOS.

Why Can't I Keep Up Anymore? Deborah Matthew, MD 2020-11-06 If you want to live a high performance life, you need to treat yourself like a high performance vehicle! If you drove a Porsche or Ferrari, would you fill the tank with low quality gasoline, take it off-roading or leave it out in a hailstorm? Of course not! You'd buy premium motor oil and get the engine

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tuned! Why don't you treat yourself that way? The good news is that it is possible to boost your horsepower and performance! In this book you will: Learn why you shouldn't blame your symptoms on your age Discover why your doctor doesn't have a drug to fix you Identify common problems that may be causing your symptoms Learn the pros and cons of various treatment options Develop a specific plan to get back your energy, drive, and confidence

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

Hyperandrogenism in Women R. Pasquali 2019-09-09

Hyperandrogenism profoundly affects women's lives from lowering self-esteem to changing cognition and affective motivation. The polycystic ovary syndrome (PCOS) is the most common androgen excess disorder worldwide. While it is not the focus of this book, some aspects are discussed. The aim of this book is to improve understanding of androgen excess and its impact on several conditions. Topics include development of adipose tissue in females, insulin sensitivity, congenital adrenal hyperplasia, and Cushing's disease/syndrome. There is also a discussion of PCOS with emphasis on in utero origins and specific genetic and epigenetic factors. This book provides a wealth of relevant information for every endocrinologist and gynecologist who wants to broaden their knowledge of androgens in various conditions.

Annals of the New York Academy of Sciences Thomas Lincoln Casey 1988 Records of meetings 1808-1916 in v. 11-27.

Wheat and Rice in Disease Prevention and Health Ronald Ross Watson 2014-01-22 Wheat and Rice in Disease Prevention and Health reviews the wide range of studies focusing on the health benefits and disease prevention associated with the consumption of wheat and rice, the two most widely consumed whole grains. This book provides researchers, clinicians, and students with a comprehensive, definitive, and up-to-date

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compendium on the diverse basic and translational aspects of whole grain consumption and its protective effects across human health and disease. It serves as both a resource for current researchers as well as a guide to assist those in related disciplines to enter the realm of whole grain and nutrition research. Overall, studies have shown that a decrease in the amount of whole grains in the modern diet is related to a corresponding increase in health problems that are attributed to this all-too-common dietary imbalance. The resulting health issues associated with an over-processed diet, which provides inadequate levels of nutrients from whole grains, may include obesity, diabetes, high blood lipids, chronic inflammatory states, and an excess of oxidative stress. Strength and endurance may also suffer as a result of these nutrient deficiencies, followed by declines in energy and immunity. Saves researchers and clinicians time in quickly accessing the latest details on a broad range of nutritional and epidemiological issues Provides a common language for nutritionists, nutrition researchers, epidemiologists, and dietitians to discuss how the action of wheat and rice protect against disease and modify human health Preclinical, clinical, and population studies help nutritionists, dietitians, and clinicians map out key areas for research and further clinical recommendations

Hormonal Predictors of Healthy Ageing in Older Men Zoe

Hyde 2012 Increasing life expectancy, coupled with declining fertility rates, has resulted in an ageing of the population. By 2050, nearly one quarter of the Australian population will be aged 65 years or older. The proportion of the population aged 85 years or older is expected to triple. Because the prevalence of chronic disease and disability increases with age, this demographic transition will pose substantial challenges. Age-related declines are observed in several important endocrine systems. In men, testosterone decreases across the lifespan, and there is debate as to whether declining levels of this hormone play a role in

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mediating many of the age-related changes in health and functional status that occur in old age. However, there have been few wellpowered epidemiological studies to date. The aim of this thesis was to explore whether endogenous testosterone levels were associated with adverse outcomes in several key domains, including cognition, frailty, cardiovascular disease, sexual function, and cancer. The study population comprised up to 3,638 community-dwelling men from Perth, Western Australia, participating in the longitudinal, population-based, Health in Men Study (HIMS). Testosterone, sex hormone-binding globulin, and luteinizing hormone were measured by immunoassay in a cohort of men aged 70 years or older. Outcome measures included memory (measured with the California Verbal Learning Test and Standardised Mini-Mental State Examination), frailty (assessed with the FRAIL scale, comprising questionnaire data and physical measures), mortality and cardiovascular events (assessed by electronic record linkage), sexual activity and sexual dysfunction (assessed by self-reported questionnaire), and incident cancer diagnoses (assessed by electronic record linkage). Statistical techniques included linear and logistic regression, and Cox and competing-risks proportional hazards models. Results of these analyses suggest that low testosterone and/or elevated luteinizing hormone are associated with poor memory, frailty, cardiovascular events, and cardiovascular mortality. Low testosterone levels were unrelated to mortality from causes other than cardiovascular disease, and to sexual problems other than low libido. Higher levels of testosterone were associated with increased sexual activity, and incident lung and prostate cancer. This novel association with lung cancer was maintained after exclusion of current smokers. These findings suggest that low levels of testosterone may be deleterious to many aspects of men's health. However, it remains uncertain as to whether low testosterone is merely a biomarker for illness or has a causal role in disease. Clinical trials will be required to investigate whether

testosterone supplementation can prevent or ameliorate these adverse outcomes, without causing harmful effects.

Androgens in Gynecological Practice Leo Plouffe, Jr
2015-06-25 A thought-provoking collection of state-of-the-art reviews on a broad range of women's conditions linked to androgen excess or deprivation.

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.

Handbook of Neuroendocrinology George Fink 2011-10-25 Neuroendocrinology underpins fundamental physiological, molecular, biological, and genetic principles such as the regulation of gene transcription and translation. This handbook highlights the experimental and technical foundations of each area's major concepts and principles.

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.

Androgen Excess Disorders in Women Ricardo Azziz 2007-11-08

The field of androgen excess disorders has advanced substantially since the original publication of this book. The Androgen Excess Society (AES) was founded to bring together investigators in the field. A better understanding of the screening, progression, and molecular genetics of nonclassic adrenal hyperplasia (NCAH) has improved the clinical care and diagnostic accuracy of these patients. New criteria for the diagnosis of the polycystic ovary syndrome (PCOS) were proposed in Rotterdam, criteria that have resulted in controversy and, hopefully, initiation of new studies. The association of insulin resistance with PCOS has been strengthened, and the role of metformin in treating the infertility of the PCOS has been validated. Risks for diabetes and, more controversially, cardiovascular disease in women with PCOS have received substantial investigation. Our understanding of the epidemiology and economic impact of these disorders has expanded, emphasizing their critical importance. These are but a few highlights of how the terrain has changed in a relatively brief period of time. In keeping with these advances, the title of this book has been revised to reflect the growing importance of PCOS as the most prevalent androgen excess disorder in women, and arguably, as the one that might have the most serious adverse consequences for general health. There are fewer chapters to provide a more focused elucidation of the area. Several chapters were penned by new (and young) authors who are conducting cutting-edge research in the field.

Dr. Chris's A, B, C's of Health Chris Elisabeth Gilbert, M.D., Ph.D.

2010-09-17 How can you stop the pain? Be less hungry? Lose weight? Sleep better? When you visit your regular physician, very often he or she will spend less than 15 minutes with you and write

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a quick prescription for a pain killer or a sleeping pill or give you a paper explaining the right diet. The real questions are: Why are you in pain? Why are you hungry all the time? Why are you gaining weight? Why are you not sleeping well? You will discover the answers to these questions and many more. Dr. Gilbert will explain the powerful holistic techniques she uses in her office. You will learn how to sleep better, how to improve hormonal balance and orgasms, how to eat and exercise better and how to fight against stress. You will also learn about Homeopathy, Acupuncture, Gestalt Therapy and relaxation techniques. You will read about her medical secrets and embark on a wonderful journey towards a healthier and happier life.

The Genetics of Sex Hormones and Their Effects on

Mammographic Density in Women Cameron B. Haas 2021 In this work we leveraged genomic information from large-scale population-based studies to explore the relationships between three epidemiologic factors associated with breast cancer in women: 1) mammographic density, 2) sex hormone concentrations, and 3) body mass index (BMI). Mammographic density, which describes the proportion of dense (i.e., epithelial and stromal) tissue in the breast, is one of the strongest predictors of breast cancer in women. Women with extremely dense breasts have a 3 to 6-fold increased risk of breast cancer compared to those with primarily fatty breasts. Breast cancer is generally considered to be a primarily hormone-driven cancer, an attribute that has led to the development of effective treatment and prophylactic strategies for hormone receptor positive subtypes and cause for investigating the role of endogenous hormones in breast cancer etiology. Finally, BMI has been consistently observed to have paradoxical associations with breast cancer across menopause, with evidence of preventative effects associated with higher BMI in premenopausal women but increased risk in postmenopausal women. We first built on recent analyses that investigated the genetic architecture of testosterone

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and sex hormone binding globulin (SHBG) in men and women of European ancestry by conducting genome-wide association studies (GWAS) of estradiol concentrations in women. Additionally, we investigated the generalizability of previous findings in women of African ancestry. We further conducted menopausal status specific GWAS of these sex hormones to identify loci with heterogeneous effects across menopause. We found that the strongest overall genetic predictor of testosterone concentrations, located in the CYP3A7 gene, had an effect nearly twice as large in premenopausal women compared to postmenopausal women. Similarly, genetic variants in the AKR1C4 gene were strongly associated with concentrations of SHBG in premenopausal women, but not in postmenopausal women, with a 5-fold difference in effect estimates between the two. We also estimated the shared heritability across menopausal status specific hormone concentrations, and observed a relatively low genetic correlation between pre- and postmenopausal detectable levels of estradiol, whereas comparisons of pre- and postmenopausal shared heritability for SHBG and testosterone were both close to one, indicating near identical genetic architectures. We performed gene-level tests for enrichment of genetic associations within tissue-specific gene expressions by collapsing multiple SNP-level associations in a gene while accounting for linkage disequilibrium. Using this gene-set analysis for tissue specificity we observed a change from strong adrenal gland tissue specificity of testosterone in premenopausal to adipose tissue specificity in postmenopausal women, suggesting that adiposity may play a more important role in determining circulating concentrations of testosterone after menopause. To understand the directional relationships between overall and menopausal status specific concentrations of sex hormones and BMI on mammographic dense and non-dense area we performed Mendelian Randomization analyses. We created menopausal status specific genetic instruments for SHBG,

testosterone, and estradiol based on our previous work. We obtained single nucleotide polymorphisms (SNP)-specific association statistics from a recent GWAS of mammographic density of up to 27,900 women of European ancestry. Effect estimates for BMI were obtained from the largest meta-GWAS of BMI to date, comprising more than 700,000 individuals. We observed an inverse relationship between overall genetically predicted testosterone and dense area. Increasing genetically predicted BMI was strongly associated with an increase in genetically predicted non-dense area, as previously observed. However, we also observed an inverse association between genetically predicted BMI and absolute dense area, which might explain some of the reduced risk of breast cancer associated with an increase in genetically predicted BMI. Higher genetically predicted BMI was also strongly associated with decreasing SHBG concentrations, as well as increasing concentrations of testosterone. Based on the inverse-variance weighted results, we observed increasing genetically predicted BMI to be associated with a decrease in genetically predicted detectable levels of overall and premenopausal specific estradiol concentrations, but not for postmenopausal only. Multivariable MR approaches for the association of BMI and mammographic density adjusting for sex hormones did not substantively change the effect estimates of BMI. Building on the strong association between BMI and mammographic density, we sought to identify genetic loci that interact with BMI to alter mammographic density phenotypes. We conducted genome-wide tests for the interaction between SNPs and BMI on percent mammographic density, absolute dense area, and absolute non-dense area in 14,837 women. Despite having the largest sample size to date with genetic and phenotypic data for mammographic density, we did not find any loci that reached standard Bonferroni correction for statistical significance. This work presents novel findings of the unique genetic architectures of menopausal specific concentrations of sex hormones in women

and extends these findings to investigate their associations with mammographic density. We show that BMI plays an important role in determining not only non-dense area, but also dense area and a possibly separate mechanism for breast cancer etiology. Additionally, there is evidence based on our MR approaches of a regulatory role of BMI on endogenous estradiol as yet another possible pathway to tumorigenesis. We did not identify any genetic variant that has a strong modifying effect of BMI on mammographic density phenotypes. It is possible that larger studies are merited to investigate the interactions between germline genetic variants and BMI on mammographic density variation.

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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

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

Androgen Action in Prostate Cancer Donald Tindall

2009-04-20 Androgens are critical regulators of prostate differentiation and function, as well as prostate cancer growth and survival. Therefore, androgen ablation is the preferred systemic treatment for disseminated prostate cancer. Androgen action is exerted in target tissues via binding the androgen receptor (AR), a nuclear receptor transcription factor. Historically, the gene expression program mediated by the AR has been poorly understood. However, recent gene expression profiling and more traditional single-gene characterization studies have revealed many androgen-regulated genes that are important mediators of androgen action in both normal and malignant prostate tissue. This book will focus on the androgen-regulated gene expression program, and examine how recently identified androgen-regulated genes are likely to contribute to the development and progression of prostate cancer. Recent studies that have attempted to unravel how these genes are deregulated

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