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When Binding Proteins Interfere With Immunoassays | myADLM.org - American Association for Clinical Chemistry (AACC)

How Dihydrotestosterone (DHT) Affects Hair Loss - Verywell Health

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Genetic effects on the timing of parturition and links to fetal birth weight - Nature.com

Digit ratio (2D:4D) and maternal testosterone-to-estradiol ratio ... - Nature.com

Free Testosterone: What It Is & What It Does for You - Men's Health

Blood Sugar And Menstrual Cycle: Are They Related? - Camille Styles

Testosterone — What It Does And Doesn't Do - Harvard Health

The 9 Strongest Testosterone Boosters to Buy (Best 2023 Brands ... - Bellevue Reporter

GLP1RAs treatment may improve reproductive health in obese PCOS patients - Medical Dialogues

Phthalate exposure linked to lower SHBG, higher risk for obesity in ... - Healio

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Risk factors for insulin resistance related to polycystic ovarian ... - Nature.com

Myoinositol Versus Metformin in the Treatment of Polycystic Ovarian ... - Cureus

7 At-Home Testosterone Test Kits of 2023, Evaluated by Our Experts - Verywell Health

Role of Metformin in Polycystic Ovary Syndrome (PCOS)-Related ... - Cureus

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Lower serum testosterone is associated with increased likelihood of ... - Nature.com
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Multiple Factors Contribute to Testosterone Decline in Men - Renal and Urology News

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*Alleviation of *Limosilactobacillus reuteri* in polycystic ovary ... - Nature.com*

Podcast #893: Optimize Your Testosterone - Art of Manliness

Polycystic ovary syndrome is associated with a higher risk of ... - BioMed Central

Birth Control Pill Could Cause Long-Term Problems With Testosterone - Medical News Today

Testosterone therapy may benefit men with diabetes and obesity ... - Healio

Study of Gonadal Hormones in Males With Liver Cirrhosis and Its ... - Cureus

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Steroid-protein Interactions - Ulrich Westphal
1971

Endocrine Aspects of Successful Aging: Genes, Hormones and Lifestyles - P. Chanson
2013-03-09

At the beginning of the 20th century, life expectancy at birth in North America and Western Europe was around 50 years of age. Nowadays, women have gained more than 30 years of age and men are trailing closer. However, according to several sociologists such as Louis Chauvel, the notion of a "greying society" is not entirely adequate since aging people are physically and socially younger and more active for a longer time. Of course, the other side of the medal is to tackle the challenge of preventing age-associated chronic diseases. In this book the extensive field of research on neuroendocrine aging has been reviewed. Aging is one of the most complex biological processes determined by the interactions between genetic

and environmental factors.

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

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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.

Hormones, Cognition and Dementia - Eef Hogervorst 2009-09-24

A decade ago, oestrogen-containing hormone therapy was viewed as a promising strategy for the prevention and treatment of dementia and age-related cognitive decline. However, treatment trials in women with Alzheimer's disease showed that oestrogens did not reverse cognitive impairment, and clinical trials in healthy older women indicated that oestrogens did not prevent cognitive decline. The Women's Health Initiative Memory Study trial even

suggested an increased risk of dementia with treatment late in life. What happened? How are we to understand these findings? What are the implications for middle-aged and older women? What about testosterone, and what about men? And where do we go from here? This book brings together world-renowned experts in basic and clinical research on sex steroids, aging, and cognition to integrate existing findings with emerging new data, and offer challenging hypotheses on these key issues.

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

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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.

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.

The Relationship Between Endocrine Factors and Breast Cancer Risk - 2000

The study was designed to examine the relationships between hyperinsulinemia, insulin like growth factor-I, central adiposity, maximal adult weight, physical fitness and breast cancer risk in postmenopausal African-American women. The study employed a case-control design (86 controls and 43 cases). Mean age was 67 years (age range 55 to 79 years). We did not find a relationship between IGF-1 concentrations and breast cancer. A logistic regression model

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was used to adjust for potential confounding variables and to determine those factors that influence breast cancer risk. Our study revealed that breast cancer risk was influenced by waist circumference (OR=1.166; 95% CI: 1.051,1.308), education (OR--1.286; 95% CI: 1.062,1.594), insulin levels (OR=1 .031; 95% CI: 1.004,1.065), sex hormone binding globulin levels (OR--0.960; 95%CI: 0.929,0.989), levels of percent free estrogen (OR=0.006,0.001,0.106), and strenuous physical activity in high school that was greater than 5 hours per week (OR=0.23 1; 95% CI: 0.065,0.720). These results are consistent with previous studies that show a positive association between high waist circumference, hyperinsulinemia and breast cancer risk, and a protective effect of physical activity early in life and breast cancer risk. Our findings suggest that high levels of insulin and a high waist circumference may partially explain the increased breast cancer seen in postmenopausal African American women.

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,

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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.

Williams Textbook of Endocrinology - Robert Hardin Williams 2003

The state-of-the-art, tenth edition of endocrinology's classic text bridges the gap between basic science and endocrinology clinical practice. Thoroughly revised and updated, it includes new material on the thyroid and diabetes mellitus to reflect today's explosive increase in knowledge. Written by an outstanding team of authors, the 10th edition features numerous new authors who provide fresh perspectives. Presents a wealth of clinical information in a manageable size and format Contributors are at the forefronts of their disciplines Serves as a bridge between basic science and clinical endocrinology Diabetes mellitus and its complications has been greatly expanded and now includes 3 separate chapters. 4 new chapters Two new editors provide a fresh perspective on the material Figures have been added to the Diabetes Mellitus chapters Much of the art has been revised and includes new

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A Cross-sectional Study of Body Composition, Body Topology, Sex Hormone and Insulin Levels in Relation to Lipids and Lipoproteins in Women Ages 25 to 49 Years

- Catherine Suterko Sigler 1997

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.

MYO-INOSITOL EFFECTS ON METABOLIC AND HORMONAL PARAMETERS AND BODY COMPOSITION IN WOMEN WITH POLYCYSTIC OVARY SYNDROME -

Chernukcha Galina 2017

Polycystic ovary syndrome (PCOS) is a common disease in women of the reproductive age. Patients with PCOS are at high risk for metabolic disorders, such as insulin resistance (IR), hyperinsulinemia (HI), impaired glucose

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tolerance (IGT), type 2 diabetes, obesity and arterial hypertension. The discovery of a defect in the inositol phosphoglycan second messenger pathway could be at the basis of the HI, via an impairment of the post-receptor insulin-induced signal, it opens the way for new therapeutical strategies for PCOS. The objective of this study is to assess the effect of myo-inositol (MI) with folic acid (FC) by endocrine-metabolic parameters and body composition of patients with PCOS. Seventy-eight patients (26,4u00b14,6 years) diagnosed with PCOS according to the Rotterdam criteria were enrolled in this study. Patients were treated for 6 months with MI 4g + folic acid (FA) 400u00b5g daily. Menstrual cycles, body mass index (BMI) and serum levels of the anti-mullerian hormone (AMH), free testosterone (fT), total testosterone (tT), index of free androgens (FAI), androstendione (A), dihydrotestosterone (DHT), 17-OH-progesterone (17-OH), sex hormone-binding globulin (SHBG),

luteinizing hormone (LH), follicle-stimulating hormone (FSH), progesterone were measured at baseline and after 3 and 6 months therapy. The serum levels of glucose and insulin during the standard oral glucose tolerance test (OGTT) were measured at baseline and after 6 months MI. The body composition measurements, including total body fat (%) (BF), android and gynoid fat (%), visceral adipose tissue (VAT) mass and volume were assessed by dualu2013energy X-ray absorptiometry scan (DXA) at baseline and 6 months of treatment. Findings showed that MI use for 6 months was significantly associated with a decrease in the mean level of AMH by 27,7%, LH u2013 22%, tT u2013 18%, fT- 28%, A- 15%, 17-OH u2013 36,6%, FAI u2013 40,5%, leptin u2013 38,5% and an increase in the mean level of SHBG by 25% (p

Hormones and Breast Cancer - Malcolm C. Pike
1981

Health-related Physical Fitness in Women with PCOS Versus Controls - Domenica Cirone 2022
"Introduction: Polycystic ovary syndrome (PCOS) is a common endocrinopathy associated with cardiometabolic dysfunction, but whether PCOS is also associated with detriments to health-related physical fitness (HRPF) remains unclear. Purpose: The primary aim was to compare HRPF indices, including cardiorespiratory fitness (CRF), muscle strength, and muscle endurance, between women with and without PCOS (i.e., controls). The secondary aim was to explore the impact of moderating factors, i.e., insulin sensitivity, androgen levels, physical activity levels, and body mass index, on these indices. Methods: Articles that compared one or more indices of HRPF between PCOS and control groups were identified in Medline, Scopus, SportDiscus, and Embase until February 27th, 2022. The methodological quality of included studies was assessed using tools from the Joanna-Briggs Institute. Effect sizes were

quantified as standard mean differences (SMD). Random-effects meta-analyses were conducted and moderating factors were explored with subgroup and meta-regression analyses. Results: Twenty studies of moderate to high quality were included. Heterogeneity was high for CRF and moderate for muscle strength analyses. Compared to controls, CRF was lower in women with PCOS ($n = 15$, -0.70 [-1.35 , -0.05], $P = 0.03$, $I^2 = 95\%$). When all variables were expressed as SMD between groups, meta-regression analyses demonstrated that fasting insulin ($p = 0.004$) and homeostatic model assessment of insulin resistance ($p = 0.006$) were negatively associated with relative maximal oxygen consumption, while sex-hormone binding globulin levels ($p = 0.003$) were positively associated. Absolute muscle strength was not different between PCOS and controls ($n=7$, 0.17 [-0.10 , 0.45], $P = 0.22$, $I^2 = 37\%$). Only one study evaluated muscle endurance in PCOS and reported lower core endurance in women with

PCOS compared to controls. Conclusion: These data suggest that PCOS may be associated with impaired CRF; although it remains unclear whether muscle strength and endurance differ between women with PCOS and controls. As this data set was limited by a small sample size, potential for bias, and inconsistent findings, additional studies accounting for the heterogeneous presentation of PCOS as well as improved matching between PCOS and controls for characteristics known to affect HRPF, e.g., adiposity and physical activity levels, would help elucidate the impact of PCOS on indices of HRPF"--

Androgenic Disorders - Geoffrey P. Redmond 1995

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.

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.

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.

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.

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.

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