

# Sex Hormones Like Testosterone Are Lipids

Androgens in Health and Disease - Carrie Bagatell 2003-05-27

Authoritative researchers and clinicians review our latest understanding of andrology in both basic science and clinical medicine. Topics range from explaining the biology of androgens-from several different perspectives-to illuminating their role in the development and modulation of physiologic systems. Authors demonstrate in a number of cases that testosterone can be a useful adjunct to the treatment of a variety of disease states. Other chapters consider important topics such as androgens use in athletes, the potential of androgens to improve physical function and quality of life in older men, and androgens as potential male contraceptives.

**Sex Hormone Replacement Therapy** - Henry Burger 2013-03-09

Sex Hormone Replacement Therapy addresses important issues in contemporary endocrinology. Its major emphasis is on the consequences of the menopause and on androgen deficiency in the absence of overt disease of the hypothalamus and/or pituitary in men. The use of hormone therapy for the primary prevention of cardiovascular disease in post-menopausal women has become an area of major debate, and the pros and cons are examined in detail. Secondary prevention also remains controversial and is addressed in this volume. An issue of particular concern is the treatment of estrogen deficiency symptoms in women with the diagnosis of breast cancer. Whether older men with some androgen deficiency symptoms and equivocally low plasma testosterone concentrations should be treated with androgens is also a matter of great debate, as is the efficacy and safety of plant estrogens in the treatment of menopause-related complaints. Sex Hormone Replacement Therapy will be of interest to students and non-specialists, as well as a wide range of medical practitioners including endocrinologists, gynecologists, rheumatologists and cardiologists.

**Estrogen – Mystery Drug for the Brain?** - Christian Behl 2001-06-22

It is well known that estrogen is "somehow" a protective hormone for various age-related disorders. This book provides a solid knowledge of estrogen's neuroprotective activities in the brain with a special emphasis on neurodegenerative disorders such as Alzheimer's Disease. The focus is (1) to describe the biochemical, molecular, and cellular basis of the protective activity of estrogen and (2) to transfer this knowledge into the hospitals by discussing preventive and therapeutic approaches such as estrogen replacement therapy for post-menopausal women. Besides up-to-date information on estrogen and the brain, this book explains in a highly understandable manner molecular and cellular techniques by which basic data have been collected. The reader, which may include the professional specialist as well as the interested non-specialist, will also gain insight into the scientific transfer process of knowledge from basic science to the clinical situation and therefore "from bench to bed".

**Sex and Gender Factors Affecting Metabolic Homeostasis, Diabetes and Obesity** - Franck Mauvais-Jarvis 2017-12-08

The book provides a reference for years to come, written by world-renowned expert investigators studying sex differences, the role of sex hormones, the systems biology of sex, and the genetic contribution of sex chromosomes to metabolic homeostasis and diseases. In this volume, leaders of the pharmaceutical industry present their views on sex-specific drug discovery. Many of the authors presented at the Keystone Symposium on "Sex and gender factors affecting metabolic homeostasis, diabetes and obesity" to be held in March 2017 in Lake Tahoe, CA. This book will generate new knowledge and ideas on the importance of gender biology and medicine from a molecular standpoint to the population level and to provide the methods to study them. It is intended to be a catalyst leading to gender-specific treatments of metabolic diseases. There are fundamental aspects of metabolic homeostasis that are regulated differently in males and females, and influence both the development of diabetes and obesity and the response to pharmacological intervention. Still, most preclinical researchers avoid studying female rodents due to the

added complexity of research plans. The consequence is a generation of data that risks being relevant to only half of the population. This is a timely moment to publish a book on sex differences in diseases as NIH leadership has asked scientists to consider sex as a biological variable in preclinical research, to ensure that women get the same benefit of medical research as men.

**EFFECTS OF HORMONES LIPIDS & P** - 2017-01-27

This dissertation, "Effects of Hormones, Lipids and Pharmacological Agents on Vascular Contraction" by Adrian, Quan, 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: Abstract of the thesis entitled: EFFECTS OF HORMONES, LIPIDS AND PHARMACOLOGICAL AGENTS ON VASCULAR CONTRACTION submitted by Adrian Quan for the degree of Master of Philosophy at the University of Hong Kong in July 1999 Vasomotor function is considered to be characterized by a balance between vasoconstriction and vasorelaxation. This work investigated vascular function in various models - porcine coronary arteries, human umbilical cord arteries and rat aortae in vitro as well as in anesthetized rats in vivo. As the sex hormones testosterone and 17 $\beta$ -estradiol have been observed to modulate the risk of coronary artery disease and affect cardiovascular responses, it is thought that these steroids may influence vascular tone. Lysophosphatidylcholine (LPC; a component of oxidized low-density lipoproteins) also has well known associations with atherosclerotic disease while demonstrating a profound ability to impair endothelial function. Furthermore, the physiological role of vasomotor function is believed to play an integral role in the closure of umbilical arteries, a process essential for post- partum circulatory adaptations. As such, this body of work examined the vascular influences of sex steroids and LPC while exploring possible mechanisms of umbilical artery closure, focusing primarily on the role of the vasoconstrictor response. Acute exposure to physiological levels of testosterone and 17 $\beta$ -estradiol impaired and potentiated agonist-induced relaxation, respectively, in the isolated porcine coronary artery. Additionally, short-term treatment with the same concentration of 17 $\beta$ -estradiol reduced vasoconstrictor responses while low levels of testosterone augmented vascular contraction. More prolonged exposure to testosterone demonstrated the effect of augmenting pressor responses to a bolus injection of endothelin-1 in the anesthetized rat. In addition, this testosterone administration regime significantly impaired endothelium-dependent relaxation as observed in isolated segments of rat aortae. LPC exhibited the ability to profoundly alter vascular contraction in isolated segments of porcine coronary arteries. These findings demonstrated that LPC could cause a significant, concentration-dependent decrease in agonist-induced contractions. This impairment of vascular contraction was found to be dependent on the presence of a functional endothelium and was sensitive to blockade by nitric oxide synthase inhibitors. In addition, we have ascertained that 5-hydroxytryptamine and thromboxane A may have a potential role in the natural closure of umbilical arteries after birth. This is based on observations that these agents elicited high and sustained contractions, and could initiate a response at physiological concentrations. Additionally, our data indicate that the magnitude of contractions generated by these two agonists would be less susceptible to increases in oxygen tension that accompany the transition from an in utero to an external environment. The data presented in this body of work explores the possible pathological and physiological implications of augmented vascular contractions in vitro as well as pressor responses in vivo. As such, while the bulk of vascular research focuses primarily on endothelial function/relaxation, this thesis highlights the importance of addressing both vascular contraction and relaxation in the processes regulating all aspect

**Steroid-Cell Interactions** - R. J. B. King 2014-05-20

Steroid-Cell Interactions describes the processes involved in the intracellular binding of steroids (and

related compounds) in mammalian cells. Serum binding proteins and steroid-immunoglobulin interaction are also discussed, along with the relationship of these binding processes to the biological action of the steroid. This book consists of 10 chapters and begins by presenting an elementary account of the factors contributing to the interaction between a steroid hormone and another molecule. The discussion then turns to the three types of methods used to study the interaction between steroids and tissue receptors: cell fractionation, autoradiography, and the separation of specifically and non-specifically bound steroids. The next chapter deals with the metabolism of steroid hormones in relation to their binding and mechanism of action, focusing on testosterone and progesterone. The reader is also introduced to the intracellular binding of androgens, glucocorticoids, mineralocorticoids, and estrogens and to how binding is related to biological activity. The final chapter reviews the clinical and immunological data relevant to steroid-protein binding. This text will be of interest to students and practitioners of biology, biochemistry, and physiology.

**Serum Lipids and Sex Hormones in Different Grades of Acne Vulgaris** - Nadia Mohamed 2014-02-25  
Human sebaceous glands are found over the entire skin surface (except the palms and soles). Its function is to secrete sebum. Sebum production is continuous and is not controlled by neural mechanisms. Acne is a chronic inflammatory disease of the pilosebaceous units. The pathophysiologic factors that influence the development of acne are altered follicular growth and differentiation, sebaceous gland hyperplasia with seborrhea, *P. acnes* colonization of the follicle and inflammation. The aim was to evaluate serum lipids and sex hormones in female patients with different grades of acne. 80 female patients were used with acne vulgaris (Mild, Moderate, Severe and Very severe acne) 20 patients each. The results showed a significant decrease of HDL-C, increase of LDL-C and revealed a significant increase of free testosterone and decrease of DHEA-S. There is a significant increase of free testosterone in severe and very severe acne groups in comparison with the controls. Further studies are recommended to assess the relation between serum lipids and sex hormones in different grades of acne.

*Hormones in Lipoprotein Metabolism* - Armin Steinmetz 2012-12-06

An intimate relation between hormones and lipoprotein metabolism has been known for a long time especially from hormone-deficiency or -overproduction syndromes. The mechanisms through which hormones influence lipid metabolism have become a field of major interest in science. The more we learn about cellular hormonal actions the better we understand regulatory processes and phenomena occurring in patients. The present book summarizes data discussed at an International Meeting at Marburg, Germany, on "Hormones in Lipoprotein Metabolism". It was an attempt to pull together knowledge in basic science from the mode of action of hormones all the way to clinical appearance of hormonal disorders involving lipoprotein metabolism. Thus data on molecular biology, on hormonal regulation of apolipoprotein synthesis, on lipoprotein receptors and enzyme induction are discussed together with the large field of oral contraceptive use, postmenopausal estrogen substitution, lipid disorders in diabetes mellitus, in thyroid dysfunction, in adrenal insufficiency and in glucocorticoid application. We are aware of the fact that such an overview cannot be complete but should serve as a collection of data and ideas for those interested in hormonal regulation of lipid metabolism. We thank all authors for taking an extra effort in writing up their presentations and thus making this edition possible. We also thank Bristol-Myers-Squibb for generous support of the meeting and of the final publication. Marburg, Germany ARMIN STEINMETZ JURGEN SCHNEIDER HANS KAFFARNIK Contents Molecular Biology Chairmen: D. J. Rader, A.

**Metabolic Effects of Gonadal Hormones and Contraceptive Steroids** - Hilton A. Salhanick 2012-12-06  
The Center for Population Research of the National Institute of Child Health and Human Development began operations in August 1968 and is engaged in research dealing with health-related population problems. We organize and support projects for the development of new contraceptives and in the broad field of population research in the social sciences. The Center also supports a variety of projects dealing with the mechanism of action and medical effects of contraceptives now in use, particularly oral contraceptives and intrauterine devices. These studies were initiated several years ago at the specific direction of Congress. We were pleased, therefore, with the opportunity to help organize and support this important and timely conference on the "Metabolic Effects of Gonadal Hormones and Contraceptive Steroids," the subject of which forms an integral part of the Center's research program. April, 1969 Philip A. Corfman Director Center for Population Research National Institute of Child Health and Human

Development v PREFACE Progress in science is often associated with either a "sixth sense" or an inevitable timeliness. Both factors, perhaps, led the members of the Endocrinology Study Section of the National Institutes of Health to propose, in 1966, that an expanded view of the effects of gonadal hormones, in general, and the contraceptive steroids, in particular, was needed. There had been ample evaluations of the clinical symptomatology, contraceptive efficacy, and effects on the reproductive system, but there was a dearth of information on their multiple systemic/metabolic effects.

*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.

**The Effects of the Sex Hormones, Estradiol Benzoate and Testosterone Propionate, on the Serum Lipids of Male Albino Rats Fed an Atherogenic Diet** - L. William Goldstein 1974

**Testosterone** - Eberhard Nieschlag 2012-12-06

The first edition of "Testosterone: Action, Deficiency, Substitution" was published in 1990. Since then our understanding of the hormone that turns males into men has tremendously increased. Therefore, the editors felt that a second extended edition of the book is warranted in order to summarize established and recent findings in the field and to present the reader with an up-to-date is reflected by the textbook. The increased mass of knowledge growth of the volume from 14 to 20 chapters. In the updated edition the biochemistry and metabolism of androgens have been complemented by extensive information on the molecular biology of the androgen receptor and its disorders. The key role of testosterone in spermatogenesis is now better defined. We have a more complete understanding of the psychotropic effects of testosterone and know so much about the different target organs and functions that individual chapters deal with testosterone and the prostate, lipids and the cardiovascular system, hair, bones and muscles. The general chapter on pharmacology and clinical uses of testosterone, in particular in male hypogonadism, is extended by pharmacokinetic studies on testosterone preparations and individual substitution modalities using testosterone esters as well as implants and advanced transdermal applications. The physiologic basis and possible clinical applications of testosterone in non-gonadal diseases, in male senescence, in hormonal male contraception and in transsexuals are discussed. The last chapter describes the role of "investigative" steroid biochemistry applied to tracking anabolic steroid abuse.

**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

**Testosterone** - E. Nieschlag 2004-04-01

This book provides information on testosterone and other androgens, and their role in human physiology and pathology. It covers biosynthesis and mechanisms of action and reviews their effects on brain and behaviour, spermatogenesis, hair growth, bones, muscles, erythropoiesis, the cardiovascular system and lipids, erection, and the prostate. Therapeutic uses of testosterone preparations are carefully evaluated, including use in women, the aging male, and its abuse and detection in sport. The book reviews applications in male contraception, the role of 5 $\alpha$ -reductase inhibitors and the controversial use of DHEA. For this book the editors have assembled the world leaders in testosterone research and clinical andrology and endocrinology. A special feature of the book is the fact that its 24 chapters were submitted simultaneously to insure rapid publication. This revised and significantly expanded edition will serve as the standard source of reference for many years.

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

**Effect of Different Levels of Dietary Protein and Sex Hormones on Lipid Metabolism in Male Castrated Rats - Sharad Patel 1969**

Male castrated rats treated with testosterone or estradiol were given a diet containing 9, 18, or 50 per cent protein. Total lipids, lipid classes and fatty acid composition of lipid classes were determined. Estradiol treated rats grew slower, smaller and consumed less diet. Their liver weights were larger when compared to their body weights. Moisture content of liver remained unaffected by sex hormones, but increased with the high level of protein in the diet. Both testosterone and estradiol affected lipid metabolism; in general, the estrogenic influence was more pronounced and more predictable. Estradiol administration increased total lipids, free and esterified cholesterol and phospholipids in serum. Liver triglyceride level was decreased and free fatty acids and phospholipids were increased. An effect of sex hormone on the percentage composition of serum and liver fatty acids was apparent. Estradiol dosed rats maintained higher proportions of myristic and stearic acids in the serum cholesterol esters than that of the other fatty acids. It also increased the level of stearic and oleic acids and decreased the level of myristic, palmitic and linoleic acids in serum phospholipids. Oleic acid concentration was increased while linoleic acid concentration was decreased in serum triglycerides of estradiol treated rats. The liver cholesterol ester fatty acid patterns remained unchanged by sex hormone treatment. Liver phospholipid fractions contained a lower percentage of oleic acid in estradiol treated groups. Testosterone and estradiol treated rats had a higher proportion of myristic, stearic and linoleic acids and lower proportion of oleic acid in liver triglycerides than did the control rats. Dietary content of protein did not change serum lipid values significantly. The high level of dietary protein decreased oleic acid concentration in liver phospholipids and triglycerides.

*Examination of the Effects of Sex and Sex Hormones on Monounsaturated Fatty Acid Biosynthesis - Kristin A. Marks 2012*

Monounsaturated fatty acids (MUFA) have been viewed as either beneficial or neutral with respect to health; however, recent evidence suggests that MUFA may be associated with obesity and cardiovascular disease. Sex differences in MUFA composition have been reported in both rats and humans that may be mediated by sex hormones. Therefore, differences in fatty acid and enzyme expression were examined in male and female rats. HepG2 cells treated with 17[ $\beta$ ]-estradiol, progesterone and testosterone (0, 10, 30 and 100 nM), and ovariectomized female rats with hormone implants (sham, no treatment, estradiol, progesterone, and estradiol plus progesterone) examined the role of sex hormones in MUFA metabolism.

MUFA concentrations were determined by gas chromatography. The mRNA and protein expression of stearoyl-CoA desaturase and elongase 6, key enzymes involved in MUFA biosynthesis, were measured by real-time PCR and immunoblotting, respectively. Elongase 6 protein expression was higher in females as compared with males, increased with estradiol and progesterone treatment of HepG2 cells, and was higher in ovariectomized rats treated with estradiol. Elongase 6 expression was also decreased in HepG2 cells treated with testosterone. In contrast, the expression of stearoyl-CoA desaturase did not appear to be associated with sex or sex hormones in HepG2 cells, although ovariectomized rats treated with estradiol plus progesterone had increased stearoyl-CoA desaturase protein levels compared with sham controls. Sex differences and differences after hormonal treatments were observed in the fatty acid concentrations of MUFA and immediate MUFA substrates including 16:0, 16:1n-7, 18:0, 18:1n-7 and 18:1n-9. These differences in MUFA are consistent with the changes in elongase 6 expression. The effect of sex and hormone status on elongase 6 has not been previously examined, but these results suggest elongase 6 is an important factor in determining MUFA composition. These sex and hormonal differences in MUFA composition may contribute to sex differences in obesity and cardiovascular disease. Further work examining other factors involved in MUFA composition including oxidation, synthesis of complex lipids and the effect of diet is required.

*Sex Hormones, Exercise and Women - Anthony C. Hackney 2023-06-05*

Now in a revised and expanded second edition including seven brand new chapters, this book compiles and synthesizes the latest research and clinical evidence regarding the intricate relationship between sex hormones and the physical activity level and overall health of the female endocrine system across the lifespan. Expert authors from around the world discuss in detail the impact of sex hormones on energy metabolism, cardiorespiratory system, nervous system, and musculoskeletal health, as well as environmental and psychological factors affecting exercise and sexual health. Considerations of the hormonal and physiological changes to the menstrual cycle and in menopause due to exercise receive chapters of their own. New to this edition are discussions of pregnancy, menopause, aerobic endurance training, the transgender athlete, sports performance, and the future of sports and exercise science relating to the active female. Covering a hot topic in sports medicine and science, *Sex Hormones, Exercise and Women, Second Edition* will be of interest to researchers, clinicians, exercise scientists, and residents and fellows in these areas.

**Hormones - U Satyanarayana 2014-11-07**

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**Pharmacodynamic Studies on Desogestrel Administered Alone and in Combination with Ethinylestradiol - Göran Cullberg 1985**

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