

# Sex Hormone Binding Globulin Weight

## **Identification of Systemic Biomarkers in Serum, Urine, and Deoxyribonucleic Acid as Indicators for Environmental Exposures and the Development of Metabolic Outcomes Among Women in the United States - Yan Song 2014**

Type 2 diabetes (T2D) is a metabolic disorder that is characterized by high blood glucose in the context of insulin resistance and  $\beta$ -cell dysfunction. Excessive body weight is associated with an increased risk of T2D and other major chronic diseases including cardiovascular disease and certain cancers. The current work focuses on the identification of systemic biomarkers in various biological samples, including serum, urine, and DNA, as indicators for environmental risk factors and the development of T2D and obesity in different human populations. Environmental endocrine-disrupting chemicals (EDCs) have been shown to affect the biosynthesis, secretion, transport, binding action, and metabolism of endogenous sex hormones, and were suggested to be associated with increased risk of developing T2D and obesity. In Chapter 1, we conducted a meta-analysis study to comprehensively assess the role of EDCs in affecting risk of T2D and related metabolic traits. We found that both persistent (including dioxin, polychlorinated biphenyls, and chlorinated pesticides) and non-persistent EDCs (including bisphenol A and phthalates) may affect the risk of developing T2D. To evaluate urinary concentrations of BPA and major phthalate metabolites in relation to prospective weight change, we conducted a prospective analysis in the Nurses' Health Study (NHS) and NHSII in Chapter 2. Our data suggest urinary concentrations of BPA and certain individual phthalate metabolites were associated with modestly greater weight gain in a dose-response fashion. These data are consistent with a potential role of BPA and phthalates in weight gain,

although more prospective data are needed to corroborate these observations. In previous studies, T2D was associated with biomarkers on different molecular pathways. Earlier prospective studies have shown that low birth weight (LBW), an indicator of intrauterine growth restriction, was predictive of higher risk of T2D in adulthood, but the pathways that lead LBW individuals to the onset of T2D are still unclear. In Chapter 3, we assessed the effect of LBW on T2D risk that is explained by potential mediators on different biological pathways using mediation modeling in a case-control study of T2D in the Women's Health Initiative (WHI). We found that the effect of LBW on T2D risk seems mainly mediated by insulin resistance, which is further explained by circulating levels of sex hormone-binding globulin (SHBG), E-selectin, and systolic blood pressure. These prospective data provide quantifiable mechanistic evidence linking LBW to increased risk of T2D whilst presenting risk stratification and intervention in a population at greater risk of developing T2D later in life. The process of biological aging involves in the pathogenesis process of metabolic disorders including T2D and obesity. It is also necessary to examine the potential predictors and determinants of biological aging. Despite the consistent observations that women outlive men, the mechanisms underlying the relation between sex and longevity have not been fully elucidated. In Chapter 4, we examined the associations of circulating estradiol and testosterone with leukocyte TL in WHI. We found that serum concentration of estradiol was not associated with leukocyte TL in this large sample of postmenopausal women. Total and free testosterone levels were inversely associated with TL in Asian/Pacific Islander women but not in black and Hispanic women. Future studies to replicate our observations are warranted to address potential ethnicity-specific relations.

*Sex Difference Determined the Role of Sex Hormone-binding Globulin in Obese Children During Short-term Weight Reduction Program* - 2017

Hormones, Metabolism and the Benefits of Exercise - Bruce Spiegelman 2018-03-07

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

*The Hormone Diet* - Natasha Turner 2010-07-06

Outlines a three-step program designed to correct hormonal imbalances for potential health benefits, explaining how to identify problem areas in order to address such challenges as weight gain, insomnia, and mood disorders.

**Estrogens and Androgens in Postmenopausal Women with Osteoporosis Or Endometrial Carcinoma** - Bert Johan Davidson 1983

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

**Annals of the New York Academy of Sciences** - Thomas Lincoln Casey 1988

Records of meetings 1808-1916 in v. 11-27.

*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.

**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.

*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.

*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.

*Acta Paediatrica Hungarica* - 1992

**The Surgeon General's Vision for a Healthy and Fit Nation, 2010 - 2010**

In the 2001 Surgeon General's Call to Action to Prevent and Decrease Overweight and Obesity, former Surgeon General David Satcher, MD, PhD, warned of the negative effects of the increasing weight of American citizens and outlined a public health response to reverse the trend. The Surgeon General plans to strengthen and expand this blueprint for action created by her predecessor. Although the country has made some strides since 2001, the prevalence of obesity, obesity-related diseases, and premature death remains too high.

**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.

**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** - 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.

**Hormones and Breast Cancer** - Malcolm C. Pike 1981

*Favorable Changes in Serum Estrogens and Other Biologic Factors After Weight Loss in Breast Cancer Survivors Who Are Overweight Or Obese* - Carl Ying 2014

Background : Obesity is associated with an increased risk for recurrence and all-cause mortality in breast cancer survivors. Excess adiposity is associated with increased estrogen, insulin, and leptin, and with decreased sex hormone binding globulin (SHBG) concentrations, which may promote breast cancer progression and recurrence. This study aimed to assess the effects of weight loss on these factors. Patients and

methods : Breast cancer survivors who were overweight or obese (n = 220) and who were enrolled in a weight loss intervention study provided baseline and follow-up blood samples and weight data. Serum estrogens, SHBG, insulin, and leptin were measured at baseline, 6 months, and 18 months. Results : Weight loss of  $\geq 5\%$  of initial weight decreased leptin and insulin compared with those who did not achieve that amount of weight loss (P

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

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