

Sex Hormones During Pregnancy

Pregnancy, Sex Hormones and the Liver - H.B. Reyes 1996-06-30

Pregnancy is the main determinant of some liver diseases in humans: acute fatty liver of pregnancy, cholestasis of pregnancy, and acute liver failure in toxemia of pregnancy. Pregnancy also modifies the natural history of other more common hepatobiliary diseases, such as cholesterol gallstones. Sex hormones (mainly oestrogens, progesterone and/or some of its metabolites) and prolactin are considered responsible for these pathological consequences and they also appear to be influential in the outcome of several other hepatobiliary disorders, in both sexes and all ages. Although these disorders and their hormonal interrelations have been clinically well characterized, their pathogenesis remains obscure from the biomolecular point of view. In recent years, novel approaches using new technologies have improved our understanding of hormone actions and metabolism, hormone receptors, metabolic pathways and their interrelations with closely related molecules, such as bile acids. This book, the proceedings of the 89th Falk Symposium, held in Santiago, Chile, 10-11 November, 1995, will help research scientists and clinicians to review basic and clinical aspects of these interactions, in order to stimulate biomedical research in a relevant and exciting area.

Sex Hormones - Raghvendra Dubey 2012-02-08

Sex Hormones not only regulate reproductive function, but they also play a prominent role in the biology and physiology of several organs/tissues and in the pathophysiology of several diseases. During the last two decades, the information on the mechanisms of action of sex hormones, such as estrogens and androgens, has rapidly evolved from the conventional nuclear receptor dependent mechanisms to include additional non-nuclear, non-genomic and receptor-independent mechanisms. This highlights the need to update the current knowledge

on sex hormones and their mode of action. Increasing evidence that exogenous/epigenetic factors can influence sex hormone production and action highlights the need to update our knowledge on the mechanisms involved. This book provides a systematic and updated overview of the male/female sex-hormones and their impact in the biology and physiology of various organs. Additionally, the book discusses their positive and negative association with the pathophysiology of various diseases (e.g. osteoporosis, cardiovascular-disease, hypogonadism, reproduction, cancer) and their therapeutic potential.

Social Support as a Moderator of the Relationship Between Sex Hormones and Mental Health During Pregnancy - Preethi Panyam 2017

Abstract: Depression and anxiety during pregnancy can have a host of negative effects on mothers and their infants, such as premature delivery and increased risk for postpartum depression. Few studies have examined whether levels of the sex hormones progesterone and estradiol, which rise dramatically over the course of pregnancy, are associated with depression and anxiety. This study examined whether higher salivary progesterone and estradiol levels were associated with self-reported depression and anxiety scores among a sample of 128 low-income pregnant women, and whether these relationships were moderated by social support. The results showed that only social support levels had significant negative associations with both depression and anxiety levels. Sex hormones were not significantly associated with depression and anxiety, and social support was not a significant moderator in these relationships. Future studies should continue to address the dearth of research on assessing the roles of sex hormones in relation to mental health during pregnancy.

Progesterone and Progestins - C. Wayne Bardin 1983

Sexual Endocrinology - Fondation pour la recherche en endocrinologie sexuelle et l'étude de la reproduction humaine 1978

Role of Sex Hormones in Preeclampsia - Faisal Al-Rubaye 2013

Preeclampsia is a form of high blood pressure manifested during pregnancy, it is a common major complication causing significant morbidity and mortality; however, its etiology is unknown. The systemic vasculature is a target tissue for sex steroid hormones. Estrogen, androgen, and progesterone all influence the function and pathophysiology of the systemic circulation by influencing endothelial derived nitric-oxide pathway. Evidence suggests that sex steroids also modulate electrolyte homeostasis, but data on cation pattern during pregnancy are conflicting. Moreover, the status of ionized calcium and magnesium during pregnancy and its complication preeclampsia, and its relation with endothelial derived nitric-oxide and sex hormones have not been described adequately. The aim of this study is to demonstrate the pattern of sex steroids, minerals and electrolytes during preeclampsia with respect to normal pregnancy, and the correlation of the above parameters with nitric-oxide pathway. This study shows that preeclamptics (in different gestational age groups) experience vasospasm, hyperandrogenemia, altered electrolytes and mineral status, with no difference in sex steroids.

Neuroendocrinology of Pregnancy - Luz Irene Pascual Mathey 2020

Pregnancy is characterized by hormonal changes, critical for the mother, physiological adaptation, exercising a role in the fetus, development, maintenance, protection, and nutrition. Since born, the neuroendocrine system, involvement is necessary to prevent the embryo from being rejected by the mother, immune system. These changes are regulated by fluctuations in hormones such as Progesterone, Testosterone, Androstenedione, Dehydroepiandrosterone, Estradiol, Prolactin, human Placental Lactogen, human Chorionic Gonadotropin, and Thyroid hormones, which promote the mother, development and

the fetus (maternal-fetal development). Therefore, given the great importance of these hormones during pregnancy, this chapter will explain the preclinical and clinical participation of sex hormones in maternal-fetal development.

The Impatient Pregnancy Plan - Pregnancy Secrets Most Women Would Never Know! - Susan Wild

Are you ready to have a baby and get pregnant? Trying to get pregnant is enough to make any woman impatient. This is book is a detailed guide for women who want to have a baby and learn how to deal with pregnancy issues before and during labor. More specifically, you'll discover: - are you ready to be a mother? - what are the signs that you are pregnant? - best positions to get pregnant - all you need to know about pregnancy tests - causes for infertility and decreased libido - abortion - pros and cons - sex during pregnancy - what food to eat during pregnancy - health problems during pregnancy - how to prepare yourself for the hospital - giving birth tips and tricks - and much more Grab your copy now!

Hormones and the Fetus - J. R. Pasqualini 2013-10-22

Volume One of Hormones and the Fetus contained a generalization of the role of hormones during fetal life. In this second volume, the main topics focus on hormonal binding to fetal and maternal plasma proteins, amniotic fluid and placenta; the presence of hormone receptors in the fetal compartment; and the mechanism of action of various hormones in different target tissues of the fetus and placenta. This up-to-date information is of major importance in the study of hormonal activity in fetal life, and the biological effect of hormones through the receptor. The mechanism of fetal sexual differentiation, in which hormones play an important role, is extensively covered.

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.

Reproductive Hormones - Courtney Marsh 2021

Reproductive Hormones examines the pathophysiology of reproductive hormones on the human body. The breadth of the book's content is extensive, covering the effects of sex steroids on multiple organ systems. New information is presented in a clear, concise fashion and material is clinically relevant to practicing providers in endocrinology and other specialties.

Exploring the Biological Contributions to Human Health - Institute of Medicine 2001-07-02

It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. *Exploring the Biological Contributions to Human Health* begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). *Exploring the Biological Contributions to Human Health* discusses basic biochemical differences in the cells of males and

females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. *Exploring the Biological Contributions to Human Health* will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and journalists-while being very accessible to interested lay readers.

Hormones and Embryonic Development - G. Raspé 2013-10-22

Advances in the Biosciences 13: Hormones and Embryonic Development investigates various aspects of hormones and embryonic development, including their physiological and pharmacological effects. More specifically, this volume considers which maternal hormones are essential for normal mammalian embryonic development, as well as the time course of the occurrence of endocrine systems during mammalian fetal development. In addition, it examines the role of maternal or fetal hormones in the induction and differentiation processes during embryonic or fetal development. Comprised of 13 chapters, this book begins with an analysis of the metabolic effects of insulin and glucagon in fetal and newborn rats, as well as their physiologic significance during the perinatal period in rat and other species. The next chapter deals with sexual differentiation in the rat fetus; how hormones regulate sexual development and disrupt sexual differentiation; the role of progesterone and estrone in pregnant rats fed a protein-free diet; and effects of brain implants of testosterone propionate in newborn hamsters on sexual differentiation. The link between diethylstilbestrol ingestion during pregnancy and development of clear-cell adenocarcinoma in the vagina and cervix of the female offspring is also examined. This monograph will be of interest to biologists, bioscientists, physiologists, and pharmacologists.

Endocrinology of Pregnancy - Fuller W. Bazer 2012-12-06

A comprehensive, cutting-edge review of the complex interactions between maternal and fetal-placental tissues that control the establishment and maintenance of pregnancy, the proper development of the fetus, the birth process, and the behavioral aspects of bonding between mother and newborn. Expert researchers review the endocrine

and physiological events that culminate in the delivery of offspring, and provide a solid base of comparative information on the menstrual cycle of primates, including humans. They also discuss the sources and functions of both steroid and protein hormones from the placenta and the details of their effects on uterine function, placental development, fetal growth and well-being, and maternal responses to pregnancy. This book will become the standard reference source not only for reproductive scientists, but also for those clinicians who want better to understand the complex factors that affect pregnancy and their pregnant patients.

Fetal Endocrinology - Miles J. Novy 2013-10-22

Fetal Endocrinology covers many facets of primate reproductive biology. The book discusses some thoughts on the fetoplacental unit and parturition in primates; the development and function of the human fetal adrenal cortex; and postnatal evolution of the adrenal glands of rhesus macaques. The text also describes the regulation of fetoplacental steroidogenesis in rhesus macaque; the comparative biological, immunologic, and chemical properties of the primate chorionic gonadotropins; and urinary estrogens during pregnancy in diverse species. The secretion and physiology of chorionic somatomammotropin in primates; the placental thyroid stimulators and thyroid function in pregnancy; and growth factors in fetal growth and development are also considered. The book further tackles the production and activity of placental releasing hormone; the endocrinology of parturition; and sex-determining genes and gene regulation. The text also looks into the testicular hormone production in fetal rhesus macaque; the control of pituitary gonadotropin secretion in fetal rhesus macaque; and the development of the regulatory mechanisms of the hypothalamic-pituitary-gonadal system in the human fetus. The development of the fetal adrenals in nonhuman primates and perspectives in fetal endocrinology are also encompassed. Reproductive physiologists, pediatricians, gynecologists, and endocrinologists will find the book invaluable.

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

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.

Effects of Pregnancy and Hormones on T cell Immune Regulation in Multiple Sclerosis - Sandra Hellberg 2019-10-22

Multiple sclerosis (MS) is characterized by a dysregulated immune system leading to chronic inflammation in the central nervous system. Despite increasing number of treatments, many patients continue to deteriorate. A better understanding of the underlying disease mechanisms involved in driving disease is a pre-requisite for finding new biomarkers and new treatment targets. The improvement of MS during pregnancy, comparable to the beneficial effects of the most effective treatment, suggests that the transient and physiological immune tolerance established during pregnancy could serve as a model for successful immune regulation. Most likely the immune-endocrine

alterations that take place during pregnancy to accommodate the presence of the semi-allogenic fetus contribute to the observed disease improvement. The aim of this thesis was to characterize the dysregulated immune system in MS and define potential factors and mechanisms established during pregnancy that could be involved in the pregnancy-induced effects in MS, focusing on CD4+ T cells as one of the main drivers in immunity and in the MS pathogenesis. Using a network-based modular approach based on gene expression profiling, we could show that CD4+ T cells from patients with MS displayed an altered dynamic gene response to activation, in line with a dysregulated immune system in MS. The resulting gene module disclosed cell activation and chemotaxis as central components in the deviating response, results that form a basis for further studies on its modulation during pregnancy. Moreover, a combination of secreted proteins (OPN+CXCL1-3+CXCL10-CCL2), identified from the module, could be used to separate patients and controls, predict disease activity after 2 years and discriminate between high and low responders to treatment, highlighting their potential use as biomarkers for predicting disease activity and response to treatment. The pregnancy hormone progesterone (P4), a potential factor involved in the pregnancy-induced amelioration of MS, was found to significantly dampen CD4+ T cell activation. Further detailed transcriptomic profiling revealed that P4 almost exclusively down-regulated immune-related pathways in activated T cells, several related to or downstream of T cell activation such as JAKSTAT signaling, T cell receptor signaling and cytokine-cytokine receptor interaction. In particular, P4 significantly affected genes of relevance to diseases known to be modulated during pregnancy, where genes associated to MS were most significantly affected, supporting a role for P4 in the pregnancy-induced immunomodulation. By using another approach, the role of thymus in T cell regulation during pregnancy was assessed. Two established measures of thymic output, CD31 expression and TREC content, were used and showed that thymic output of T cells is maintained during human pregnancy, or even possibly increased in terms of regulatory T cells. This thesis further supports a pivotal role for CD4+

T cells and T cell activation in the MS pathogenesis and adds to the knowledge of how they could be involved in driving disease. We identified a novel strategy for capturing central aspects of the deviating response to T cell activation that could be translated into potentially clinically relevant biomarkers. Further, P4 is emerging as a promising candidate for the pregnancy-induced immunomodulation that could be of importance as a future treatment option. Lastly, maintained thymic output of T cells during human pregnancy challenges the rodent-based dogma of an inactive thymus during pregnancy. Thymic dysfunction has been reported not only in MS but also in rheumatoid arthritis, another inflammatory disease that improves during pregnancy, which highlights a potential role for thymus in immune regulation that could be involved in the pregnancy-induced amelioration.

Perfect Hormone Balance for Fertility - Robert A. Greene, M.D.

2008-04-29

FOR THE ONE IN FIVE COUPLES WHO EXPERIENCE DIFFICULTY CONCEIVING You have more than one hundred hormones circulating in your body—reproductive hormones, pregnancy hormones, sex hormones, metabolic hormones, and stress hormones—relaying messages from tissue to tissue, organ to organ, brain to body, and body to brain. An equilibrium, a perfect balance in both partners, often determines your ability to conceive and support a pregnancy. When your body is imbalanced, conception becomes very difficult. Luckily, hormonal imbalances can be corrected. Drawing on the latest research in this field—which links underlying hormonal issues with infertility in men and women—Dr. Robert Greene, fertility specialist, ob/gyn, and reproductive endocrinologist, has created the Perfect Balance Fertility Program to help patients attain the optimal hormonal health that is necessary for conception. In Dr. Robert Greene's Perfect Hormone Balance for Fertility, he shares his groundbreaking program so you can:

- Identify and correct the causes of the hormonal issues that affect fertility
- Use nutrition, exercise, and stress-reduction techniques to achieve a healthy equilibrium through a personalized plan
- Determine when it's time for basic or advanced reproductive techniques, such as IVF, and learn how

to be your own advocate so you can avoid costly and unnecessary tests and treatments Comprehensive, friendly, and accessible, Dr. Robert Greene's Perfect Hormone Balance for Fertility reveals all your best options for achieving the optimal hormonal levels that will positively impact your chances for a successful pregnancy.

Sex Hormones and Gender Differences in Immune Responses - Elena Ortona 2019-07-31

Increasingly clear evidence points to the need to consider gender differences in human health. In this collection of papers, recent research that supports gender differences in the immune system are discussed. We have loosely divided the eBook into two sections. The first section focuses on the role of steroid hormone interactions within the immune

system, and their impact on autoimmune diseases, infection and allergy.

This section contains comprehensive reviews and an opinion article about this topic. In the following section, original research articles revolve around the effects of the sex hormones on immune response. Two original manuscripts deal with the role of estrogen receptors in autoimmune diseases. Other two research articles discuss the role of the immune system during pregnancy. Finally, differences between males and females in infections are the topic of further two research articles. We are confident this collection of papers will be important for exploring and developing a greater understanding of gender differences in human health and disease.

Growth Hormone in Human Pregnancy - Leif Eriksson 1989

Sex Hormones During Pregnancy:

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