

Masahiro Itoh

Testicular Autoimmunity

A Cause of
Male Infertility

 Springer

Library Of Testicular Autoimmunity Immunoandrology Male Infertility

Olle Söder



Library Of Testicular Autoimmunity Immunoandrology Male Infertility:

Cumulated Index Medicus, 1994 Testicular Autoimmunity Masahiro Itoh, 2017-07-31 This book addresses various aspects of testicular autoimmunity. It has long been suspected that testicular autoimmunity could be one of the causes of idiopathic male infertility. However, it is very difficult to estimate the incidence of testicular autoimmunity in men as most male patients first realize they are infertile when they start trying to conceive a child and there is a possibility that their testes may already exhibit the end stage of testicular autoimmunity in which lymphocytic inflammation and immunoglobulin deposition in their testes subsided long ago and only the spermatogenic disorder remains. Therefore, autopsy or biopsy for testicular tissues in men before the end stage of testicular autoimmunity and investigations using testicular autoimmunity model animals are needed to determine the epidemiology of testicular autoimmunity. Accordingly, the book discusses the immunological fragility of testis with regard to male infertility, reviewing autopsy data in men and presenting experimental data using murine models of autoimmune orchitis that has been induced by immunizing with viable syngeneic testicular germ cells alone. Testicular autoimmunity in animals is also discussed. In summary, the book provides a wealth of valuable information not only for researchers who are interested in immunologic male infertility but also for clinical professionals who treat these patients at hospitals.

Index Medicus, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Varicocele and Male Infertility II** M. Glezerman, E.W. Jecht, 2012-12-06 F H Comhaire Many diseases were at the beginning merely defined by the description of their clinical appearance. Next, the pathogenic mechanisms underlying the diseases were recognized. Since then, the proof of presence of the pathogenic agent or agents has been required to confirm the diagnosis. However, it sometimes happens that the pathogenic agent can be demonstrated without the disease being clinically evident. Confusion arising from this observation may cause endless, often purely emotional discussions between believers and non-believers. Moreover, if the disease involves potential disturbance of male fertility, the problem is further obscured by the difficulty of defining man's fertility. Indeed, during the short history of andrology, the criteria for judging a man and his ejaculate as potentially fertile or infertile have repeatedly changed. Andrological landmarks in general do not hold up for long and some scientists continue to set themselves the task of proving the old definitions invalid. Certainly, such developments are necessary to make science more exact and to improve medical care. However, while this research is being done, the male partners of barren marriages continue to seek advice and treatment. Common sense and an empirical approach in the handling of these cases may result in obviously encouraging results which non-believers will ascribe to witchcraft and believers will see as confirmation of their opinions.

Male Reproductive Health Wei Wu, Francesco Ziglioli, Umberto Maestroni, 2020-03-04 Male reproductive health is an important area affecting men's overall health and well-being. Infertility is a worldwide problem that affects approximately 15% of married couples. Half of these cases can be traced to male partners. Infertile men are at an elevated risk of cancer development later in life, primarily genitourinary malignancies such as

testicular and prostate cancer This book will focus on male reproductive health from the aspects of semen quality male infertility testicular cancer and prostate cancer and their detection diagnosis treatment and prevention *Clinical Management of Male Infertility* Giorgio Cavallini,Giovanni Beretta,2014-10-20 This book provides andrologists and other practitioners with reliable up to date information on all aspects of male infertility and is designed to assist in the clinical management of patients Clear guidance is offered on classification of infertility sperm analysis interpretation and diagnosis The full range of types and causes of male infertility are then discussed in depth Particular attention is devoted to poorly understood conditions such as unexplained couple infertility and idiopathic male infertility but the roles of diverse disorders health and lifestyle factors and environmental pollution are also fully explored Research considered stimulating for the reader is highlighted reflecting the fascinating and controversial nature of the field International treatment guidelines are presented and the role of diet and dietary supplements is discussed in view of their increasing importance Clinicians will find that the book s straightforward approach ensures that it can be easily and rapidly consulted *Treatment of Male Infertility* Jerald Bain,Wolf-Bernhard Schill,Luis Schwarzstein,1982 Our insight into the mechanisms of the physiology of reproduction has experienced a swift and constant development these last few years The advent of more sophisticated diagnostic methods and their relatively easy clinical application allow for the incorporation of that knowledge into the evaluation of the infertile couple These facts together with an obvious change in social psychology have facilitated the development of different specialities dealing with the problems of infertility It is now possible in medical centers all around the world to undertake a better disposition of the infertile husband to look for advice to be studied and treated Confronted with this situation we are still unable to offer specific therapy in most cases however empirically based therapy abounds Advances in therapy have not kept pace with our increased physio logical knowledge and improved diagnostic techniques Patho physiological mechanisms and etiological factors in male infertility are largely unknown This has significantly hampered both clinical evaluation and advances in treatment allowing for frequent non scientific therapeutic incursions into the armamentarium of the an drologist Several factors have given birth to therapeutic fashions which are bound to survive as long as this state of lack of knowledge continues For example we may ask whether the treatment of varicocele constitutes a fashion Though we accept the treatment of varicocele as the best available treatment of male infertility we do not know its mechanism of action and so we cannot predict a therapeutic result **Current and Future Advances in Male Infertility** Ashok Agarwal,Ramadan Saleh,Florence Boitrelle,Rupin Shah,2024-08-05 Infertility is an important health problem affecting around 15% of couples worldwide with profound psycho social consequences and impairment of patients quality of life It has been shown that the male factor is solely and partially implicated in 20 50% of the cases of infertility Male infertility is a complex issue that can be related to a variety of congenital or acquired factors that lead to a decline in the quantity and or the quality of semen Over the recent years there have been major advances in basic understanding of the factors that regulate male fertility the

diagnostic tests for assessment of male fertility potential and the therapeutic options for the management of male subfertility infertility However despite advances in technologies and diagnostic methods in the field of andrology there remains a significant subset of these subfertile men who are classified as having unexplained or idiopathic male infertility In addition there are ongoing debates and controversies on the clinical management of infertile men under certain conditions like varicocele genital tract inflammation infection or non obstructive azoospermia This book discusses advances in cellular molecular and genetic aspects of spermatogenesis and sperm evaluation in the context of clinical scenarios It also addresses clinical dilemmas and controversies through a discussion of the basic science underlying these conditions The authors form an impressive international collaboration to provide a unique perspective that specializes in all key areas of andrology

Current and Future Advances in Male Infertility provides insights into strategies to reduce the burden of male gonadotoxins to enhance men's fecundity and to help optimize the care of infertile men It aims to bridge the gap between researchers and clinicians by integrating basic science and clinical application *Andrology* John D. Paulson, 1986 *Andrology* E. Nieschlag, Hermann M. Behre, 2001 Andrology is a decidedly interdisciplinary field in which several specialties participate Accordingly this volume is addressed to all concerned with male reproductive health Andrologists gynecologists urologists internists endocrinologists dermatologists basic researchers The volume comprises basic science as well as clinical andrology and includes chapters on Biology of reproduction testicular function sperm maturation and fertilization endocrinology of the male environmental factors psychology senescence contraception as well as chapters on the diagnosis and therapy of andrological diseases including Infertility hypogonadism assisted reproduction ICSI and TESE therapy with testosterone erectile dysfunction

Varicocele and Male Infertility Alaa Hamada, Sandro C. Esteves, Ashok Agarwal, 2015-12-07 This SpringerBrief analyzes varicocele from a novel approach and provides the reader with a comprehensive view of its scientific and clinical significance The Brief covers all the important aspects of varicocele related to infertility from epidemiology to assisted reproduction techniques contemplating pathophysiology semen analysis specialized sperm function tests and clinical management including all available treatment options from three distinct perspectives i.e. current concepts consensus and controversies Each topic is addressed using the same template offering the best information from all angles to readers This SpringerBrief is aimed at both clinicians and scientists involved in the study and care of male and female fertility and is written by a team of three internationally recognized authors with expertise in andrology and male infertility The text is the first of its kind and presents an invaluable tool both for the basic scientists with an interest in reproductive medicine and for clinicians working in the field of infertility *Male Infertility and Sexual Dysfunction* Wayne J.G. Hellstrom, 2012-12-06 Andrology is the fastest growing subspecialty in urology and has recently achieved remarkable advances in the understanding of the erectile mechanism and in reproductive medicine Male Infertility and Sexual Dysfunction presents all the current avenues of treatment with emphasis on multidisciplinary considerations Chapters are written by select

international authorities presenting indepth coverage of their areas of expertise Each topic will cover the background anatomy physiology diagnosis classification and treatment medical and or surgical Part I focuses on the study of male infertility and includes discussions of the basic sciences office evaluation laboratory and imaging techniques and the use of testicular biopsy This is followed by specialized chapters dealing with immunologic infertility genital inflammation reactive oxygen species medical management sperm processing and preventive adolescent andrology Part II reflects a more diverse format in the coverage of sexual dysfunction and includes discussions of androgen insufficiency nocturnal penile tumescence studies neurotransmission penile neurology premature ejaculation psychogenic impotence and the latest medical noninvasive and surgical treatments

Male Infertility Sijo J. Parekattil,Ashok Agarwal,2012-06-05 A ground breaking contribution to the literature Male Infertility Contemporary Clinical Approaches Andrology ART Antioxidants offers a comprehensive review of well established current diagnostic and treatment techniques for male infertility This state of the art evidence based resource incorporates new multidisciplinary and complementary medicine approaches to create a first of its kind guide to treatment strategies involving antioxidants for male infertility Designed as an easily accessible practical reference for daily use Male Infertility Contemporary Clinical Approaches Andrology ART Antioxidants provides a high quality guide for urologists reproductive endocrinologists embryologists andrologists biologists and research scientists interested in the role that antioxidants play in male infertility

Varicocele and Male Infertility Sandro C Esteves,Chak-Lam Cho,Ahmad Majzoub,Ashok Agarwal,2019-10-08 This unique textbook the first of its kind presents a thoughtful and comprehensive discussion of the significance of varicocele and its impact on male fertility This hot topic is covered from a multitude of angles in seven thematic sections origin and pathophysiology clinical evaluation medical and surgical therapy controversies pro and con debates and clinical case scenarios The scope of varicocele includes basic and transitional research genetics diagnostic testing with conventional and advanced molecular biology approaches hormonal control interventional therapy and assisted reproductive technology ART Repair of varicocele which can be carried out by various methods not only alleviates oxidative stress associated infertility but also prevents and protects against the progressive character of varicocele and its consequent upregulations of systemic oxidative stress Even with the advances in the understanding of this intriguing disease and consensus on some areas such as diagnosis and pathophysiology substantial controversy still exists in particular concerning the benefits of treatment and to whom treatment should be offered Additional chapters discuss in depth such controversies surrounding the role of varicocele in male infertility and present clinical case scenarios dealing with management of subclinical and clinical varicocele A series of editorial comments is provided by the editors at the end of selected chapters containing an objective and concise summary of the information from each chapter In addition chapters open up with key points for quick references and conclude with multiple choice questions and answers for immediate review and retention of the rich content Generously illustrated Varicocele and Male Infertility A Complete Guide represents an

invaluable tool for medical students in reproductive medicine as well as researchers and clinicians working in the field of infertility e g urologists gynecologists reproductive endocrinologists and embryologists and is comprised of chapters written by leading and internationally recognized clinicians and scientists with expertise in varicocele skillfully edited by leaders in the field

The Diagnosis and Treatment of Male Infertility Nabil Aziz,Ashok Agarwal,2017-06-15 This case based guide is written from the clinician s perspective dealing with a defined male infertility problem tracing the actual clinical pathway arriving at the diagnosis and discussing the treatment options and the likely outcome Rather than focusing on excessive theoretical details each chapter presents a unique clinical vignette or scenario the relevant aspects of which are followed throughout the entire chapter correlating specific fertility issues with clinical findings describing treatment options prognoses and procedures when indicated and concluding with practical clinical pearls Opening with chapters describing current diagnoses of male infertility and semen analysis the subsequent cases presented cover a variety of relevant topics in male infertility including anabolic steroid use ejaculatory and erectile dysfunction azoospermia Klinefelter Syndrome varicocele cystic fibrosis and spinal cord injury Additional chapters discuss choosing the right assisted conception technique and developing and managing a sperm bank Practical and illustrative of a wide array of male fertility issues The Diagnosis and Treatment of Male Infertility is a go to resource for clinical andrologists reproductive endocrinologists urologists primary care physicians and any professional working to treat the infertile male

Office Andrology Phillip E. Patton,David E. Battaglia,2007-11-05 A comprehensive and practice oriented resource guide to currently available diagnostic and treatment options for male infertility disorders Topics covered range from basic sperm biology and male reproductive endocrinology to immunology specialized sperm testing and the genetic background to male infertility The authors emphasize the investigation diagnostic testing and management of the infertile male but also examine such timely issues as gender selection HIV discordance couples and posthumous reproduction Other topics of interest include laboratory accreditation vasectomy reversal ethical and legal considerations of donor insemination optimizing success in a donor insemination program and strategic therapies for ejaculatory disorders and erectile dysfunction in infertile men

The Developing Testis Olle Söder,2003-01-01 The Developing Testis is a complex site of various differentiation events resulting in two main functions in adult life gametogenesis and androgen biosynthesis Testis research is multidisciplinary in its nature and attracts both basic and clinical scientists The purpose of this volume has therefore been to bring together a group of expert scientists in the fields of physiology endocrinology pediatrics and andrology to sum up our current knowledge on human testicular development from the state of male sex determination to the end of puberty The contents span from molecular events in male sex determination and testis differentiation to clinical entities such as the testis in childhood cancer cancer in the testis and gonadotropin receptor mutations Testicular descent and cryptorchidism are reviewed from the eyes of a pediatrician rather than from the traditional surgical view Exciting recent developments in approaches to prevent male infertility after

gonadotoxic cancer treatment in prepubertal boys are reviewed The book addresses a wide readership among basic scientists general pediatricians endocrinologists urologists andrologists and others interested in the function of the developing male gonad

The Immunology of the Male Genital Tract Yong-Gang Duan, Daishu Han, Kenneth Tung, 2022-11-18 The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest

Immunologic Aspects of Testicular Function R.E. Mancini, 2012-12-06 It has become increasingly evident within the last few decades that immunologic factors are involved in some aspects of the reproductive process and hence in the physiology and pathology of the genital tract The concept that immune phenomena participate in human reproduction is not new There are examples throughout the history of man that immune phenomena may have influenced the reproductive process For example the Bible states that Sarah was sterile for a long time but conceived in the later years of her marriage This could be interpreted to mean that continued exposure to her husband's ejaculated antigens resulted in antibody response sufficient to induce sterility However after continence of long duration the antibody level declined and conception became possible Another of speculation is Darwin's Descent of Man which contains a number of statements to the effect that profligacy of women may account for their small fertility The inference is that repeated exposure to antigenic material in the ejaculate causes antibody responses that lead to infertility KATSH and KATSH 1965 This is directly related to the modern postulate that prostitutes do not conceive because of antisperm antibodies acquired by frequent contact with semen

Aspects of Male Infertility Ralph deVere White, Ralph W. DeVere White, 1982

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