Alaa Hamada Sandro Esteves Ashok Agarwal

Varicocele and Male Infertility Current Concepts, Controversies and Consensus



Varicocele Male Infertility Controversies Springerbriefs

Nabil Aziz, Ashok Agarwal

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Varicocele and Male Infertility Alaa Hamada, Sandro C. Esteves, Ashok Agarwal, 2015-12-07 This Springer Brief 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 form 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 Proteomics in Human Reproduction Ashok Agarwal, Luna Samanta, Ricardo P. Bertolla, Damayanthi Durairajanayagam, Paula Intasqui, 2016-12-09 This Brief explores the use of proteomics as a tool for biomarker discovery in human reproduction and summarizes current findings and trends of proteomic studies in both male and female infertility This simplifies this important but complex topic and equips the novice reader with sufficient background information on the use of proteomics in human reproduction. The up to date scenario on proteomic investigations will also appeal to researchers and post graduate students looking to keep abreast with the latest developments in reproductive research This review summarizes current findings of contemporary proteomic studies on infertility in both males and females with various reproductive pathologies and its use in predicting the outcome of assisted reproduction In human reproduction the search for biomarkers via proteomics is a fast evolving approach that involves the analysis of proteins in the reproductive tissues and fluids such as the male gametes seminal plasma ovarian and endometrial tissue and follicular and uterine fluid By comparing the protein profile of a healthy fertile individual against that of an infertile individual the differentially expressed proteins may give an indication to certain proteins that could serve as useful biomarkers that are related to infertility As proteomic studies continue to unravel the dynamic proteome behind various infertility conditions there is potential for the discovery of prognostic markers that could ultimately help in both natural and assisted human reproduction Varicocele and Male Infertility Sandro C Esteves, Chak-Lam Cho, Ahmad Majzoub, Ashok Agarwal, 2019-09-11 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

Varicocele and male infertility, 1982 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 Varicocele and Male Infertility, 2 Ekkehard W. Jecht, 1984 *Varicocele and Male Infertility* E.-W. Jecht, E. Zeitler, 2012-12-06 It is not surprising that so much investigation has been undertaken to establish the cause of childlessness especially when the potentia coeundi of the male is not impaired As long ago as 1957 the German Society for the Study of Fertility and Sterility was founded embracing gynecology andrology and veterinary medicine After its inception meetings conducted in the spirit of

its foundation were held every 2 years This interdisciplinary coordinated scientific work in the field of human reproduction achieved its value as a result of the stimuli provided by the permanent involvement of veterinary scientists After about 20 years of activity the Society adopted a highly differentiated pattern of work directions in the field of human and veterinary medicine Since 1976 annual meetings have been held on the topic of animal and human reproduction These meetings have proved of great value especially in the area of comparative medicine and have led to excellent interdisciplinary associations One of the most evident successes was the first extracorporal fertilization in humans with subsequent embryo transfer and full term pregnancy Gynecologists have found that in 40% of cases the cause of undesired childlessness rests with the male and it is therefore no surprise that also in the field of andrology certain factors concerned with infertility have received great Current and Future Advances in Male Infertility Ashok Agarwal, Ramadan Saleh, Florence Boitrelle, Rupin attention 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 Report on Varicocele and Infertility American Urological Association, Incorporated, American clinical application Urological Association. Male Infertility Best Practice Policy Committee, American Society for Reproductive Male Infertility Harris M. Nagler, 2008 This volume is divided into sections highlighting areas of Medicine, 2001-01-01 advancement or controversy in the treatment and approach to male factor infertility The introductory section provides updates on hormonal evaluation and male infertility as well as highlights developments and our current understanding of evaluation of male factor infertility the assessment of sperm structure and function and issues related to female fertility The

fundamentals that are required for a urologist to be an effective collaborator with reproductive endocrinologists are also outlined The second section discusses our understanding of the varicocele the changing approach of the varicocele and updates literature regarding the effectiveness of this commonly treated form of male factor infertility. The next section addresses ejaculatory abnormalities. There are many areas of controversy in the therapy of male infertility and these are reviewed related in terms of medical therapy as well as surgical therapy Articles devoted to genetic foundations provide the urologist with a genetic primer as well as the essentials required to understand the role of genetic abnormalities in male factor infertility Finally information on the effect of aging is also presented since as our population ages it happens more frequently that older men are attempting to achieve pregnancies with younger partners Treatment of Male Infertility I. Bain, Wolf-Bernhard Schill, L. Schwarzstein, 2012-12-06 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 con tinues 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 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 Male Infertility T.B. Hargreave, 2012-12-06 Twenty five years ago the subject of male infertility scarcely existed in urological practice At that time semen analysis was a rather cursory microscopic test the scope of endocrine and hormone tests was limited and debate about the relevance of a varicocele was only just beginning Since then progress has owed about as much to sociological change as medical progress Acceptance that problems of fertility should be shared between partners is now no longer questioned and the willingness of both husband and wife to recognise this and to seek help has been an important change in clinical practice This book is concerned primarily with male infertility and it will be evident that this is now a substantial subject in its own right However a need for a broad prospective in this subject is emphasised by a chapter on female assessment as well as reference to female aspects of infertility wherever relevant so that the reader remains properly aware that this subject is a problem for the couple Because our knowledge of this subject is changing so rapidly Mr Hargreave has separated the contents into two parts The first is concerned with basic biological problems and investigations with a full evaluation of current knowledge and methods Also details of new techniques that offer the prospect of real progress are a special attraction in this section Varicocele & Male Infertility Cure Book. Varicocele Treatment, Symptoms, Surgery, Natural Remedies, Medication, Pain Management All Included. George Groddington, 2014-10-27 Finally a book is out in the market that caters for thousands of men who are anxious to become fathers A book that can potentially help millions Certainly it is one of the most awaited books as it s almost impossible to find a book on varicocele and infertility together with concrete healthcare information This book is dedicated to satisfy the thirsty eyes of affected patients Varicocele is surely among the most highly under rated men s disorders with the incidence of nearly 15 percent or more in the general male population A disorder of such scope demands far more attention as it can potentially lead to seriously disabling physical and mental conditions Surprisingly for most of the readers varicocele can be associated with disorders like pain agony discomfort anxiety infertility low healthy sperm ratio premature ejaculation erection problems and other sexual disorders This book not only explains in detail the connection between varicocele and male infertility but also it narrates all possible surgical and natural treatment options for varicocele and infertility disorders Use this book as a guide to ensure timely diagnosis and best treatment options of sexual disorders for guick restoration of fertility with pleasure Covered in this book Make infertility Types of infertility Varicose veins and varicocele Role of medication Disturbances that cause male infertility Lifestyle habits Infertility and men s health Hormonal disturbances Latest trending medicines Natural herbs Role of Micronutrients Treatment options Natural treatments Pain management and much more 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 **Infertility in the Male** Larry I. Lipshultz, Stuart S. Howards, Craig S. Niederberger, 2009-09-24 The new edition of this canonical text on male reproductive medicine will cement the book s market leading position Practitioners across many specialties including urologists gynecologists reproductive endocrinologists medical endocrinologists and many in internal medicine and family practice will see men with suboptimal fertility and reproductive problems The book provides an excellent source of timely well considered information for those training in this young and rapidly evolving field While several recent books provide targeted cookbooks for those in a male reproductive laboratory or quick reference for practising generalists the modern comprehensive reference providing both a background for male reproductive medicine as well as clinical practice information based on that foundation has been lacking until now The book has been extensively revised with a particular focus on modern molecular medicine Appropriate therapeutic interventions are highlighted throughout Infertility Management Series Practical Management of Male Infertility Juan A Garcia-Velasco, Manish Banker, Rupin Shah, 2015-02-20 Infertility Management Series Practical Management of Male Infertility is a practical handbook providing useful practical pointers for the management of male sub fertility The book begins with a chapter on the implications of the new WHO manual for semen analysis followed by common queries from the clinician such as other sperm tests that can help in clinical decision making Other topics covered include medical treatment for oligo astheno teratozoospermia controversies indications for surgery and expected outcomes in men with varicoceles and changing paradigms in diagnostic and therapeutic approach to an azoospermic male The final chapter describes various techniques for sperm retrieval and reconstructive surgery for obstructive azoospermia together with indications and advantages of each method This concise and comprehensive book brings together the most current and relevant information on the subject of male infertility making it an important text for gynaecologists infertility practitioners and specialists Key Points Part of the Infertility Management Series Concise and practical handbook for busy practitioners 150 full colour images Edited by a team of international experts in the field Male Infertility for the Clinician Sijo J. Parekattil, Ashok Agarwal, 2013-07-02 This concise truncated version of Parekattil and Agarwal s Male Infertility Contemporary Clinical Approaches Andrology ART Antioxidants is the first resource dedicated solely to clinical issues of

infertility With select chapters that will prove invaluable to the reproductive medicine clinician Male Infertility for the Clinician addresses issues like Diagnosis and management of male infertility conditions such as varicocele ejaculatory duct obstruction and congenital epididymal obstruction New approaches to Klinefelter's syndrome A concise structured approach to the genetics of male infertility Management of cancer patients oncofertility and ethical considerations in special male infertility circumstances New advances in biomaterials for reconstruction and new robotic assisted microsurgical techniques Practical for clinicians and researchers alike Male Infertility for the Clinician contains all of the need to know information about these cutting edge topics in reproductive medicine **Answers to Your Questions about Varicoceles** American Urological Association. Male Infertility Best Practice Committee, 2001*** **Common Problems in Infertility and Impotence** Jacob Rajfer, 1990

Whispering the Secrets of Language: An Emotional Quest through Varicocele Male Infertility Controversies Springerbriefs

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