

Male Infertility Contemporary Clinical Approaches, Andrology, ART and Antioxidants



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Revised and expanded textbook, comprehensively covering all aspects of male infertility diagnosis and treatment, with a focus on the role of antioxidants Utilizes a common chapter format and pedagogical elements such as key points and CME questions, as well as video clips where appropriate A readily accessible, high quality reference guide for medical students, residents and professionals working in the field of male infertility and andrology A groundbreaking contribution to the literature now in its revised and expanded second edition, this textbook offers a comprehensive review of diagnostic and treatment techniques for male infertility. This state-of-the-art, evidence-based textbook incorporates new multidisciplinary and complementary medicine approaches to create a first-of-its-kind guide to treatment

strategies for male infertility and beyond. While this new edition is primarily designed as a reference for students and residents in reproductive medicine and andrology, it will be equally useful as well for professionals in urology, reproductive endocrinology, embryology, and research fields who are interested in the role that antioxidants play in male infertility. World-renowned experts in these areas have been selected to participate in this work. Careful selection of the highest quality content will span the whole range of topics in the area of male infertility, providing a complete review of well-established and current diagnostic and treatment techniques for male infertility. The incorporation of 20 new chapters will enhance the book's appeal by including the most recent advances brought to the male infertility arena. Additionally, this edition incorporates new features, including bulleted key points, review criteria and select video clips demonstrating some of the most fascinating male infertility treatment modalities. A dedicated new section on current guidelines on male infertility will enlighten readers on how to most optimally manage male infertility clinical scenarios.

Dr. Sijo Parekattil is Co-Director of PUR Clinic (Personalized Urology & Robotics) at South Lake Hospital & Orlando Health & Associate Professor of Urology at the University of Central Florida (UCF). He was an Electrical Engineer (University of Michigan) prior to his medical training and thus has interests in surgical techniques incorporating technology, robotics and microsurgery. He completed his urology residency training at Albany Medical Center and then went onto complete dual fellowship training from the Cleveland Clinic Foundation, Cleveland in Laparoscopy/Robotic Surgery and Microsurgery/Male Infertility.

Dr. Parekattil has received numerous awards and published several articles in the field of robotic microsurgery. He is an editor on a few textbooks on Male Infertility and a surgical textbook on Robotic Microsurgery. He is a pioneer in robotic microsurgery in urology. He has developed novel treatments for chronic groin and testicular pain. He is one of the founding Board members of the Robotic Assisted Microsurgical & Endoscopic Society (RAMSES) and is on the foundation board for Florida Polytechnic University, Lakeland, FL.

Sandro C. Esteves is Medical & Scientific Director of ANDROFERT—Andrology and Human Reproduction Clinic—a referral Fertility Center for Male Reproduction in Brazil.

He earned his MD. in 1990 from the University of Campinas (UNICAMP), Brazil, where he did residency training in General Surgery and Urology. He completed his training in the United States (1995-1996) as a Research Fellow at the Cleveland Clinic's Center for Reproductive Medicine. He was awarded a Master's degree in Surgery in 1998, at UNICAMP, and a PhD. in

Medicine (Urology) in 2001, at the Federal University of São Paulo (UNIFESP). Dr. Esteves is a Board-certified Urologist by the Brazilian Society of Urology, and a certified-ART Center director and IVF Consultant by the Brazilian Society of Assisted Reproduction.

Sandro is a Collaborating Professor in the Department of Surgery (Division of Urology) at the University of Campinas (Brazil) and Honorary Professor of Reproductive Endocrinology at the Faculty of Health, Aarhus University, Denmark. Sandro is also Research Collaborator at the Cleveland Clinic's Center for Reproductive Medicine (USA). His major contributions in the field of reproductive medicine have been in the area of male infertility and microsurgery, reproductive endocrinology, assisted reproductive technology, cleanroom technology, and quality management. His Center, ANDROFERT, was one of the first Centers, both in Brazil and worldwide, to introduce quality management and IVF cleanroom technology, and it is certified according to ISO 9001:2015 and ISO 14644-1 standards.

Prof. Esteves has published approximately 300 peer-reviewed scientific papers, authored over 80 book chapters, and presented over 150 papers at both national and international scientific meetings. His current Hirsch index is 46 (Google scholar) while his citation count is more than 6,000. Sandro is also a Faculty member of F1000Prime in the area of reproductive endocrinology & infertility since 2016 and is a co-founder of Group POSEIDON (Patient-Oriented Strategies Encompassing Individualized Oocyte Number) (www.groupposeidon.com). He is also a member of the Society for Translational Medicine's male infertility cooperative group.

Dr. Esteves has served as an editor of 8 textbooks related to male infertility, reproductive medicine, and assisted reproductive technology. He is also the guest editor of 6 special issues in scientific journals on topics related to reproductive medicine. Sandro currently serves on the Editorial Board of several Journals and is Associate Editor of International Brazilian Journal of Urology and Frontiers in Endocrinology (Reproduction).

Dr. Esteves is a much-requested international lecturer and gives approximately 50 lectures annually. He has been invited as guest speaker in over 40 countries. He is the recipient of the "Alumni of the Year" Award from the Cleveland Clinic Center for Reproductive Medicine, and consecutive Star Awards from the American Society for Reproductive Medicine for the last 6 years.

Ashok Agarwal, PhD, HCLD (ABB), ELD (ACE), EMB (EMBCOL) is the Head of Andrology Center and Director of Research at the American Center for Reproductive Medicine since 1993. He holds these positions at The Cleveland Clinic Foundation, where he is a Professor of Surgery (Urology) at the Lerner College of Medicine of Case Western Reserve University. Ashok was

trained in Male Infertility and Andrology at the Brigham and Women's Hospital and Harvard Medical School and later worked as an Assistant Professor of Urology at Harvard from 1988 to 1992. Ashok has over 26 years of experience in directing busy male infertility diagnostic facilities and fertility preservation services. He is very well published with over 730 scientific papers and reviews in peer-reviewed scientific journals and is ranked in Scopus as the #1 author in the world in the fields of Male Infertility/ Andrology and Human Assisted Reproduction, based on the number of peer-reviewed publications, citation scores (Scopus: 32,001; Google Scholar: 67,039), and h-index (Scopus: 96; Google Scholar: 125). He is currently an editor of 39 medical text books/ manuals related to male infertility, ART, fertility preservation, DNA damage and antioxidants and active in basic and clinical research. His laboratory has trained over 1,000 scientists, clinicians, graduate and undergraduate students from the United States and more than 55 countries. His current research interests include proteomics of male infertility and the molecular markers of oxidative stress, DNA integrity in the pathophysiology of male reproduction.

Reviews

"The book's rich content and leading expert contributions appeal to urologists, andrologists (both in the clinical and basic science domains), and their counterparts in reproductive endocrinology and environmental toxicology. ... This work is a valuable addition to the field of male infertility, with virtually any related topic clearly presented." (Irvin H Hirsch, Doody's Book Reviews, May 22, 2019)