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Nota di contenuto	Causes of Male Infertility -- Epidemiologic Considerations in Male Infertility -- Laboratory Evidence for Male Infertility -- Imaging Modalities in the Management of Male Infertility -- Endocrinopathies -- Oxidative Stress and its Association with Male Infertility -- Oxidative Stress Measurement in Semen and Seminal Plasma -- Sperm Chromatin Integrity Tests and Indications -- Proteomic and Metabolomic Fingerprinting in Male Infertility -- Epigenetics and Male Infertility -- Genetic Aspects of Male Infertility -- Surgical Treatment for Male Infertility -- Microsurgery for Male Infertility -- Advanced Techniques of Vasoepididymostomy -- Grafting Techniques for Vasectomy Reversal -- Mini-Incision Vasectomy Reversal Using the No-Scalpel Vasectomy Instruments and Principles -- Office-Based Microsurgery under Local Anesthesia for Male Infertility -- Robotic Microsurgery for Male Infertility and Chronic Orchialgia -- Robotic Vasectomy Reversal: An American Perspective -- Robot-Assisted Vasectomy Reversal (Vasovasostomy) -- Robotic-Assisted Varicocelectomy -- Management of Fertility Preservation in Male Cancer Patients -- Clinical Management of Men with Nonobstructive Azoospermia due to Spermatogenic Failure

-- ART and Its Impact on Male Infertility Management -- Fuel/energy sources of spermatozoa -- Physiologic Role of ROS in Sperm Function -- Sperm physiology and assessment of spermatogenesis kinetics in vivo -- Origins of Sperm DNA Damage -- Seminal Oxidation-Reduction Potential -- Varicocele -- Infection in Infertility -- EJACULATORY DYSFUNCTION AND VASODYNAMICS -- Environmental Factors -- Effect of Exogenous Medications and Anabolic Steroids in Male Reproductive and Sexual Health -- Male Age and Andropause -- Apoptosis and Male Infertility -- Impact of Spinal Cord Injury -- Obesity -- Smoking effects on male fertility -- Recreational Drugs -- Nutritional Pathways to Protect Male Reproductive Health -- Antioxidants and Male Infertility -- Synthetic Antioxidants -- New developments for the Enhancement of Male Reproductive Health using Antioxidant Therapy: A Critical Review of the Literature -- IN VITRO STUDIES OF ANTIOXIDANTS FOR MALE REPRODUCTIVE HEALTH -- Antioxidants Use and Sperm DNA Damage -- YOGA, MEDITATION AND ACUPUNCTURE FOR MALE REPRODUCTIVE HEALTH -- Role of interventions to reduce oxidative stress and improve sperm DNA integrity before ICSI -- Sperm Retrieval Techniques -- Microdissection Testicular Sperm Extraction -- Sperm Processing and Selection -- Microfluidic sperm selection -- Antioxidants in Sperm Cryopreservation -- Antioxidants in ICSI -- Role of Sperm-Hyaluronic Acid Binding in the Evaluation and Treatment of Subfertile Men with ROS-Affected Semen -- Sperm DNA Damage, ART Outcomes and Laboratory Methods for Selecting DNA-Intact Sperm for ICSI -- Testicular Sperm in Non-Azoospermic Infertile Men with Oxidatively-Induced High Sperm DNA Damage -- Development of Artificial Gametes -- ICSI and Male Infertility: Consequences to Offspring -- Best Practice Guidelines for Male Infertility Diagnosis and Management -- Best Practice Guidelines for Sperm DNA Fragmentation Testing -- Antioxidants in the medical and surgical management of male infertility -- Fertility Preservation for boys and adolescents -- Novel Home-based Devices for Male Infertility Screening -- Ethical Dimensions of Male Infertility -- Harmful Effects of Antioxidant Therapy -- Male Infertility from the Developing Nation Perspective -- Diabetes and Male Infertility -- Empiric Medical Therapy for Idiopathic Male Infertility -- Testosterone therapy in male infertility.

Sommario/riassunto

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. Covering all aspects of diagnosis and management, ART, lifestyle factors and associated conditions for male infertility, *Male Infertility: Contemporary Clinical Approaches, Andrology, ART and Antioxidants* will be a readily accessible, high quality reference for medical students and residents, and will be of significant value to professionals working in the various fields treating this condition as well. .
