

1. Record Nr.	UNINA9910755083003321
Autore	Nieschlag Eberhard
Titolo	Andrology : Male Reproductive Health and Dysfunction // edited by Eberhard Nieschlag, Hermann M. Behre, Sabine Kliesch, Susan Nieschlag
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-31574-X
Edizione	[4th ed. 2023.]
Descrizione fisica	1 online resource (840 pages)
Altri autori (Persone)	BehreHermann M KlieschSabine NieschlagSusan
Disciplina	616.6/5 616.65
Soggetti	Reproductive health Urology Endocrinology Dermatology Medical genetics Reproductive Medicine Clinical Genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Scope and Goals of Andrology -- Part I. Physiologic Basis -- 2. Physiology of testicular function -- 3. Physiology of sperm maturation and fertilization -- Part II. Classification and Diagnosis of Andrological Disorders -- 4. Classification of andrological disorders -- 5. Anamnesis and Physical Examination -- 6. Ultrasound imaging in andrology -- 7. Endocrine Laboratory Diagnosis -- 8. Cytogenetic and molecular genetic diagnostics -- 9. Semen analysis -- 10. Sperm quality and sperm function tests -- 11. Biopsy and histology of the testis -- Part III. Clinics in Andrology: Secondary Hypogonadism -- 12. Congenital hypogonadotropic hypogonadism of hypothalamic origin -- 13. Congenital hypogonadotropic hypogonadism of pituitary origin and rare syndromes with central hypogonadism -- 14. Delayed puberty in boys -- 15. Pituitary hypogonadism, hyperprolactinemia, and

gonadotropin-producing tumors -- Part IV. Clinics in Andrology: Primary Hypogonadism (Disorders at the Testicular Level) -- 16. Anorchia and Polyorchidism -- 17. Undescended testes -- 18. Varicocele -- 19. Orchitis -- 20. Disorders of spermatogenesis and spermiogenesis -- 21. Klinefelter syndrome -- 22. XX male and XYY karyotype -- 23 Structural chromosomal changes -- 24. Testicular tumors -- 25. Senescence and late-onset hypogonadism -- Part V. Clinics in Andrology: Diseases of Seminal Ducts and Accessory Sex Organs -- 26. Infections and inflammation of the seminal ducts and accessory sex glands -- 27. Obstructions of the seminal ducts, cystic fibrosis and congenital aplasia of the ductus deferens -- 28. Immunologically induced infertility -- 29. Andrologically relevant changes in the external genitals -- 30. Disorders of erection, cohabitation and ejaculation -- Part VI. Clinics in Andrology: Disorders of Sexual Differentiation and Androgen Target Organs -- 31. Variants of sex development -- 32. Gynecomastia -- 33. Male androgenetic alopecia -- Part VII. Clinics in Andrology: Disorders of Reproductive Health caused by Environmental and Systemic Diseases -- 34. Testicular dysfunction in systemic diseases -- 35. Environmental Influences on Male Reproductive Health -- Part VIII. Andrological Therapy -- 36. Therapy with testosterone -- 37. Abuse of anabolic androgenic steroids (AAS) for doping -- 38. Treatment of hypogonadism of hypothalamic or pituitary origin -- 39. Therapeutic attempts in idiopathic infertility -- 40. Gynecology relevant to andrology -- 41. Assisted fertilization -- 42. Cryopreservation of human sperm and testicular germ cell tissue for fertility reserve -- Part IX. Sexual Health -- 43. Sexual Medicine and Andrology -- 44. Involuntary Childlessness from the Perspective of Sexual Medicine -- Part X. Male Contraception -- 45. Male contribution to contraception -- 46. Vasectomy -- 47. Approaches to hormonal male contraception -- 48. Non-hormonal Approaches to Male Contraception -- Part XI. Law and Ethics in Reproductive Medicine -- 49. Legal regulations in Andrology and Reproductive Medicine -- 50. Ethical criteria of reproductive medicine. .

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## Sommario/riassunto

The successful book of andrology now in a new edition! This book gives a complete, interdisciplinary overview of the central topics of andrology, infertility, hypogonadism, contraception and erectile dysfunction. It contains detailed information on the clinical practice of couple treatment, andrology-relevant gynecology and modern methods of assisted fertilization, psychological factors of infertility, endocrinology and reproductive functions of the aging man as well as on an important sub-area of andrology, the male contribution to contraception. In addition, the relevant scientific foundations (including molecular biology and genetics) are also covered. Completely revised and updated according to the latest scientific research, the new edition represents a reference for andrology, which no doctor who deals with the topic can miss. For andrologists, practitioners and residents, urologists, dermatologists and internists who deal with the area of andrology and male reproductive medicine.

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