

1. Record Nr.	UNINA9910300319103321
Titolo	The Complete Guide to Male Fertility Preservation // edited by Ahmad Majzoub, Ashok Agarwal
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-42396-7
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XX, 387 p. 38 illus., 36 illus. in color.)
Disciplina	612.6
Soggetti	Reproductive health Urology Oncology Reproductive Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Etiology of Cancer-Induced Male Infertility.- Impact of cancer treatment on sperm chromatin integrity.- Testicular sperm retrieval for cryopreservation in cancer patients.- Sperm retrieval in ejaculatory dysfunction -- The Effect of Cancer and its Treatment on Natural-Born Offspring.-ART success and long term outcomes on offspring of cancer survivors.- Fertility Preservation in Adolescents with Cancer.- Testes Sparing Surgery: Balancing cancer control with fertility preservation. - Fertility Preservation in Hypogonadal Men.- Sperm Preservation in Transgender Patients.- Postmortem Sperm Retrieval: Ethical, Legal, and Logistical Considerations.- The first visit: consult and workup before sperm banking.- Developing a Sperm Banking Consent Process.- The process of sperm cryopreservation, thawing & washing techniques. - Sperm freezing injury: causes and methods to avoid it -- Risk preparedness in sperm banks.- Licensing and accreditation of a sperm bank for therapeutic banking.- Current practice, attitude and knowledge of oncologists regarding Male fertility preservation. - Psychological Impact and Barriers to Fertility Preservation in Male Cancer Patients.- Germ cell transplantation and neospermatogenesis.
Sommario/riassunto	This comprehensive, multidisciplinary guide provides an up-to-date presentation of fertility preservation techniques with male cancer

patients and other challenging conditions. Divided into four thematic sections, part one provides an overview of the pathophysiologic processes interrelating cancer and its treatment with infertility and discusses different methods of sperm preservation and fertility outcomes in cancer patients. Part two then explores male fertility preservation in various non-cancerous conditions, such as immunosuppressed, hypogonadal and transgender patients. The fundamental principles of cryobiology and sperm optimization are covered in part three, which also offers essential building blocks for scientists to develop a sperm banking service and implement high standards of practice. The final section describes the current practices of male fertility preservation along with its psychological impact on patients, and extends beyond to future innovative methods—tissue preservation, xenografting and artificial gametes—being researched and implemented in this field. Fertility preservation among cancer patients and survivors is an evolving practice, which involves focused research and timely collaboration of professionals from related fields. The Complete Guide to Male Fertility Preservation is unique and original in its design and will appeal to a larger audience of andrologists, reproductive endocrinologists, urologists, embryologists, and all other clinicians practicing reproductive medicine and oncology.

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