

1. Record Nr.	UNINA9910300072803321
Titolo	Pediatric Germ Cell Tumors [[electronic resource]] : Biology Treatment Survivorship // edited by A. Lindsay Frazier, James F. Amatruda
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-642-38971-6
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (144 p.)
Collana	Pediatric Oncology, , 1613-5318 ; ; 1
Disciplina	618.92994
Soggetti	Oncology Pediatrics Oncology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""Acknowledgements and Dedication""; ""Contents""; ""Introduction""; ""1: Biology of Germ Cell Tumors""; ""1.1 Introduction""; ""1.2 Embryology and Development""; ""1.3 Epigenetics: Genomic Imprinting and Methylation""; ""1.3.1 Studies Which Demonstrate That Epigenetic Changes in GCTs Reflect the Stage of Development of the Primordial Germ Cell at the Time of Malignant Transformation""; ""1.3.2 Studies Which Demonstrate That Epigenetic Changes in GCT Subtypes May Account for the Observed Differences in Clinical Behavior and Outcome""; ""1.4 Genomic Aberrations""</p> <p>""1.5 Transcriptome Analysis""""1.5.1 Messenger RNA Profiles Identify Differences Between Pediatric and Adult GCTs""; ""1.5.2 MicroRNA Profiles Identify Commonalities Shared by Pediatric and Adult GCTs""; ""1.6 Pathway and Proteomic Analysis""; ""References""; ""2: Epidemiology of Germ Cell Tumors""; ""2.1 Incidence and Survival""; ""2.2 International Incidence Rates""; ""2.2.1 Pediatric GCTs""; ""2.2.2 Adult Testicular GCTs""; ""2.2.3 Adult Ovarian GCTs""; ""2.3 US Incidence Rates""; ""2.3.1 Pediatric GCTs""; ""2.3.2 Adult Testicular GCTs""; ""2.3.3 Adult Ovarian GCTs""</p> <p>""2.3.4 Trends in Incidence Rates""""2.3.5 Survival""; ""2.4 Risk Factors for Pediatric Germ Cell Tumors""; ""2.4.1 Family History""; ""2.4.2 Cryptorchidism and Other Congenital Abnormalities""; ""2.4.3 Maternal</p>

Estrogen Levels"; "2.4.4 Parental Exposure to Pesticides and Other Chemicals"; "2.4.5 Parental Lifestyle Factors"; "2.4.6 Birth Characteristics"; "2.4.7 Genetic Susceptibility"; "2.5 Risk Factors for Adult Testicular Germ Cell Tumors"; "2.5.1 Family History"; "2.5.2 Testicular Dysgenesis Syndrome"; "2.5.3 Maternal Estrogen Exposures"; "2.5.4 Pesticides and Other Endocrine-Disrupting Agents"; "2.5.5 Maternal Lifestyle Factors During Pregnancy"; "2.5.6 Birth Characteristics"; "2.5.7 Genetic Susceptibility"; "2.6 Risk Factors for Adult Ovarian Germ Cell Tumors"; "2.7 Summary and Conclusions"; "References"; "3: Pathology of Germ Cell Tumors"; "3.1 Yolk Sac Tumor"; "3.1.1 Gross Appearance"; "3.1.2 Microscopic Appearance"; "3.1.3 Immunohistochemistry"; "3.2 Seminoma"; "3.2.1 Gross Appearance"; "3.2.2 Microscopic Appearance"; "3.2.3 Immunohistochemistry"; "3.3 Embryonal Carcinoma"; "3.3.1 Gross Appearance"; "3.3.2 Microscopic Appearance"; "3.3.3 Immunohistochemistry"; "3.4 Mature and Immature Teratoma"; "3.4.1 Gross Appearance"; "3.4.2 Microscopic Appearance"; "3.4.3 Immunohistochemistry"; "3.5 Mixed Germ Cell Tumors"; "References"; "4: Clinical Treatment of Extracranial Pediatric Germ Cell Tumors"; "4.1 Introduction"; "4.2 Development and Evolution of Treatment Regimens for Malignant Germ Cell Tumors in Children"; "4.2.1 The North American Experience"; "4.2.2 The United Kingdom Experience"; "4.2.3 The German Experience"; "4.2.4 The French Experience"

Sommario/riassunto

Germ cell tumors are relatively rare compared with other malignancies, and compilations of knowledge that encompass the entire spectrum of the disease are lacking. This textbook, written by the foremost authorities in the field, rectifies the situation by discussing in depth a broad range of topics, including biology, epidemiology, pathology, treatment, and late effects. Bearing in mind that germ cell tumors are most prevalent in the adolescent and young adult age group, causes of disease and treatment approaches in pediatric and adult patients are compared and contrasted. By spanning the entire life course, from prenatal origins of disease through to treatment in adults and late effects of treatment, the editors have produced a book that will be of interest to both pediatric and adult oncologists.
