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Nota di contenuto	Front Cover; Cancer Treatment and the Ovary; Copyright Page; Contents; List of Contributors; Foreword; Introduction; I. Clinical; 1 Ovarian Follicle Biology and the Basis for Gonadotoxicity; 1.1 Overview of Ovarian Function; 1.2 Ovarian Development; 1.3 Molecular Mechanisms Controlling Primordial Follicle Activation; 1.4 Local Control of Early Follicle Development; 1.5 Endocrine Control of Later Follicle Development; 1.6 Reproductive Lifespan and the Ovarian Primordial Follicle Reserve; 1.7 Germ Cell Sensitivity to Cell Death; 1.8 Conclusion; References 2 Relevant Cancer Diagnoses, Commonly Used Chemotherapy Agents and Their Biochemical Mechanisms of Action2.1 Introduction; 2.2 Impact of Radiotherapy on Future Female Fertility; 2.3 Impact of Chemotherapy on Future Female Fertility; 2.4 Mechanisms of Action of the Commonly Used Chemotherapy Drugs; 2.4.1 Alkylating Agents; 2.4.2 Antimetabolites; 2.4.3 Antitumour Antibiotics; 2.4.4 Mitotic Inhibitors; 2.4.5 Platinum Drugs; 2.4.6 Topoisomerase Inhibitors; 2.4.7 High-Dose Chemotherapy; 2.4.8 Targeted Therapies; References; 3 Clinical Assessment of Ovarian Toxicity; 3.1 Introduction

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Sommario/riassunto	Cancer Treatment and the Ovary: Clinical and Laboratory Analysis of Ovarian Toxicity provides the reader with a basic understanding on how the ovary is adversely impacted by cancer treatment, an essential foundational knowledge for this rapidly-developing field. The book describes both the clinical and laboratory approaches to discovering the potentially adverse effects of cancer treatment on the ovary, also laying out possible preventative approaches and future directions for the field. Clinicians working in the field of reproductive biology and oncology will find an essential referen