

Contents

List of contributors	<i>page</i> vii
Preface	xi

Section 1: Cognition and the brain: measurement, tools, and interpretation

1	Introduction Christina A. Meyers and James R. Perry	3
2	Clinical neuropsychology Jill B. Rich and Angela K. Troyer	6
3	Brain imaging investigation of chemotherapy-induced neurocognitive changes Brenna C. McDonald, Andrew J. Saykin, and Tim A. Ahles	19
4	Role of neuropsychological assessment in cancer patients Elana Farace	33
5	Neuropsychological assessment of adults with cancer Anne E. Kayl, Robert Collins, and Jeffrey S. Wefel	44
6	Neuropsychological assessment of children with cancer Louise Penkman Fennell and Robert W. Butler	56

Section 2: Effects of cancer and cancer treatment on cognition

7	Biological bases of radiation injury to the brain	83
	Edward G. Shaw and Mike E. Robbins	
8	Cognitive dysfunction related to chemotherapy and biological response modifiers	97
	Jeffrey S. Wefel, Robert Collins, and Anne E. Kayl	
9	Effect of hormones and hormonal treatment on cognition	115
	Christien Schilder, Sanne Schagen, and Frits van Dam	
10	Low-grade gliomas	142
	Martin J. B. Taphoorn and Charles G. Niël	
11	High-grade gliomas	156
	Michael J. Glantz and John W. Conlee	
12	Brain metastases	170
	Deepak Khuntia, Beela S. Mathew, Christina A. Meyers, Sterling Johnson, and Minesh P. Mehta	
13	Primary central nervous system lymphoma	187
	Denise D. Correa	
14	Childhood brain tumors	198
	H. Stacy Nicholson, Louise Penkman Fennell, and Robert W. Butler	
15	Neurofibromatosis	211
	Bartlett D. Moore, III and John M. Slopis	
16	Hematological malignancies	228
	Melissa Friedman and Mercedes Fernandez	

17	Paraneoplastic disorders	239
	Edward Dropcho	
18	Symptomatic therapies and supportive care issues	258
	Alan Valentine and Eduardo Bruera	
19	Animal models and cancer-related symptoms	270
	Adrian Dunn	

Section 3: Interventions and implications for clinical trials

20	Behavioral strategies and rehabilitation	281
	Dona E. C. Locke, Jane H. Cerhan, and James F. Malec	
21	Support services	295
	Bebe Guill and Renee H. Raynor	
22	Pharmacological interventions for the treatment of radiation-induced brain injury	312
	Edward G. Shaw, Jerome Butler, L. Douglas Case, Ralph d'Agostino, Jr., John Gleason, Jr., Edward Ip, Mike E. Robbins, Paul Saconn, and Stephen R. Rapp	
23	Neurocognitive testing in clinical trials	320
	Jennifer A. Smith and Jeffrey S. Wefel	

Index	329
-------	-----

Color plate section will be found between page 32 and 33.