

Contents

Part I

General Considerations in the Management of Patients with Head and Neck Tumors

1

Chapter

1	Anesthesia Management and Pain Control	2
	<i>James M. Shear, M.D. • William D. Owens, M.D.</i>	
2	Pain Control in Head and Neck Tumors	15
	<i>P. Prithvi Raj, M.D. • James C. Phero, D.M.D.</i>	
3	Nutritional Management of Patients with Head and Neck Tumors	45
	<i>Stanley J. Dudrick, M.D. • Wilfred Brown, M.D. • Carina G. Biggs, M.D.</i>	
4	Nursing Care for Head and Neck Tumor Patients	59
	<i>Barbara A. Sigler, R.N., M.N.Ed., CORLN</i>	
5	Speech and Swallowing Rehabilitation	79
	<i>Dennis Fuller, Ph.D.</i>	
6	Biology of Radiation Therapy	99
	<i>Luka Milas, M.D., Ph.D. • Lester J. Peters, M.D.</i>	
7	Physics of Radiotherapy of Head and Neck Tumors	124
	<i>Peter Almond, Ph.D.</i>	
8	Chemotherapy of Head and Neck Tumors	141
	<i>Roger Stupp, M.D. • Everett E. Vokes, M.D.</i>	
9	Controversies in Multimodality Therapy for Head and Neck Cancer: Clinical and Biologic Perspectives	157
	<i>Sharon L. Collins, M.S., M.D.</i>	
10	Statistics of Head and Neck Cancer ...	283
	<i>William E. Davis, M.D., M.S.P.H. • Robert P. Zitsch III, M.D.</i>	

11	Outcome and Economic Issues in Head and Neck Cancer	296
	<i>David G. Pfister, M.D. • Hirsch S. Ruchlin, Ph.D.</i>	
12	Psychiatric and Ethical Issues in Patients with Head and Neck Cancer	310
	<i>Frank E. Lucente, M.D. • Eric M. Joseph, M.D. • Elyse D. Weiner, M.D.</i>	
13	Molecular Biology of Head and Neck Tumors	321
	<i>Carol R. Bradford, M.D. • Thomas E. Carey, M.D.</i>	
	Prevention of Head and Neck Cancer: An Overview	343
	<i>Sharon L. Collins, M.S., M.D.</i>	
14	Smoking Cessation and Prevention of Head and Neck Cancer	346
	<i>Sharon L. Collins, M.S., M.D.</i>	
15	Chemoprevention of Head and Neck Tumors	361
	<i>Dong M. Shin, M.D. • Scott M. Lippman, M.D. • Waun Ki Hong, M.D.</i>	

Part II

Tumors of the Ear

379

16	Pathology of Tumors of the Ear	380
	<i>Vincent J. Hyams, M.D., Captain, M.C., U.S.N. • John G. Batsakis, M.D.</i>	
17	Clinical Evaluation and Treatment of Ear Tumors	395
	<i>Sam E. Kinney, M.D.</i>	
18	Clinical Evaluation and Treatment of Auricular and Periauricular Cutaneous Carcinoma	409
	<i>Brock D. Ridenour, M.D.</i>	
19	Clinical Evaluation of Paragangliomas of the Lateral Skull Base	424
	<i>Peter G. Smith, M.D., Ph.D. • David P. Diemer, M.D. • Mitchell K. Schwaber, M.D. • Richard S. Levine, M.D.</i>	

- 20** Glomus Tumors 442
C. Gary Jackson, M.D. • Pamela S. Bohrer, M.D.
- 21** Radiation Therapy for Temporal Bone Chemodectomas and Acoustic Schwannomas 466
William M. Mendenhall, M.D. • James T. Parsons, M.D. • William A. Friedman, M.D. • John M. Buatti, M.D.
- 22** Prosthetic Reconstruction of the External Ear 477
Varoujan A. Chalian, D.D.S., M.S.D. • Ara A. Chalian, M.D.
- 23** Controversies in the Management of Tumors of the Ear 489
Arun K. Gadre, M.D. • Paul J. Donald, M.D.

Part III

Tumors of the Nasal Cavity and Paranasal Sinuses 495

- 24** Clinical Evaluation and Diagnosis of Tumors of the Paranasal Sinuses and Nasal Cavity: Radiologic Evaluation 496
Fred J. Hodges III, M.D.
- 25** Pathology of Tumors of the Nasal Cavity and Paranasal Sinuses 522
John G. Batsakis, M.D.
- 26** Surgical Anatomy of the Nasal Cavity and Paranasal Sinuses 540
Bruce W. Pearson, M.D.
- 27** Surgical Therapy of Tumors of the Nasal Cavity, Ethmoid Sinus, and Maxillary Sinus 558
Dale H. Rice, M.D. • Robert B. Stanley, Jr., M.D., D.D.S.
- 28** Craniofacial Surgery for Sinus Tumors 582
Victor L. Schramm, Jr., M.D. • Andrew M. Marlowe, M.D.
- 29** Radiation Therapy for Tumors of the Nasal Cavity and Paranasal Sinus 601
William T. Moss, M.D.
- 30** Prosthetic Rehabilitation of the Nasal and Paranasal Sinus Area 608
Jack W. Martin, D.D.S., M.S. • Mark S. Chambers, D.M.D., M.S. • Terence J. Fleming, D.D.S. • James C. Lemon, D.D.S.

- 31** Controversy in the Management of Tumors of the Nasal Cavity and Paranasal Sinuses 625
Ari J. Namon, M.D. • William R. Panje, M.D.

Part IV

Tumors of the Oral Cavity 631

- 32** Pathology of Tumors of the Oral Cavity 632
John G. Batsakis, M.D.
- 33** Evaluation and Surgical Therapy of Tumors of the Oral Cavity: Lip Tumors 673
Robert P. Zitsch III, M.D.
- 34** Buccal Mucosa, Alveolus, Retromolar Trigone, Floor of Mouth, Hard Palate, and Tongue Tumors 686
Jatin P. Shah, M.D. • William M. Lydiatt, M.D.
- 35** Radiotherapy of Tumors of the Oral Cavity 695
James T. Parsons, M.D. • William M. Mendenhall, M.D. • Rodney R. Million, M.D.
- 36** Dental Management and Rehabilitation of Tumors of the Oral Cavity 720
Thomas D. Taylor, D.D.S. • William E. LaVelle, D.D.S. • Michael R. Arcuri, D.D.S.
- 37** Controversy in the Management of Tumors of the Oral Cavity 730
Joseph A. Brennan, M.D. • Charles W. Cummings, M.D.

Part V

Tumors of the Pharynx 737

- 38** Pathology of Pharyngeal Tumors 738
Louis H. Weiland, M.D. • John G. Batsakis, M.D.
- 39** Evaluation and Surgical Therapy of Nasopharyngeal Tumors 757
William R. Panje, M.D. • Hugh E. Hetherington, M.D. • Cordell E. Gross, M.D. • Glen K. Geremia, M.D.
- 40** Treatment of Tumors of the Nasopharynx: Radiation Therapy 783
Karen K. Fu, M.D.

- 41 Treatment of Tumors of the Oropharynx: Surgical Therapy** 806
Lawrence W. DeSanto, M.D. • Stanley E. Thawley, M.D. • Eric M. Genden, M.D.
- 42 Radiotherapy of Tumors of the Oropharynx** 861
James T. Parsons, M.D. • William M. Mendenhall, M.D. • Giselle J. Moore, A.R.N.P., M.S.N. • Rodney R. Million, M.D.
- 43 Surgical Therapy of Hypopharyngeal Tumors** 876
Stanley E. Thawley, M.D. • Donald G. Sessions, M.D. • Eric M. Genden, M.D.
- 44 Radiotherapy of Tumors of the Hypopharynx** 915
James E. Marks, M.D.
- 45 Controversies in the Management of Tumors of the Pharynx** 934
David J. Howard, F.R.C.S.

Part VI

Tumors of the Larynx 949

- 46 Pathology of Laryngeal Tumors** 950
Mary R. Schwartz, M.D.
- 47 Surgical Therapy of the Larynx: Surgical Anatomy** 979
Stanley E. Thawley, M.D.
- 48 Surgical Therapy of Supraglottic Tumors** 1006
Stanley E. Thawley, M.D. • Donald G. Sessions, M.D. • Alan E. Deddens, M.D.
- 49 Surgical Therapy of Glottic and Subglottic Tumors** 1039
Norman D. Hogikyan, M.D. • Robert W. Bastian, M.D.
- 50 Planned Combined Radiotherapy and Surgery** 1069
Craig L. Silverman, M.D. • James E. Marks, M.D.
- 51 Controversy in the Management of Laryngeal Tumors: Radiation Therapy Perspective** 1081
Lawrence W. Davis, M.D. • W. Hamilton Williams, M.D.

- 52 Controversy in the Management of Laryngeal Tumors: Surgical Perspective** 1090
James N. Endicott, M.D. • William D. Anderson, M.D.

Part VII

Tumors of the Salivary Glands 1105

- 53 Pathology of Tumors of the Salivary Glands** 1106
Mario A. Luna, M.D.
- 54 Evaluation and Surgical Treatment of Tumors of the Salivary Glands** 1147
Henry Hoffman, M.D. • Gerry Funk, M.D. • Don Endres, M.D.
- 55 Radiation Therapy of Tumors of the Salivary Glands** 1182
Homayoon Shidnia, M.D. • Ned B. Hornback, M.D.
- 56 Rehabilitation of the Patient with Tumors of the Salivary Glands** 1197
Roger L. Crumley, M.D. • Timothy F. Kelley, M.D.
- 57 Controversies Regarding Therapy of Tumors of the Parotid Gland** 1211
W. Frederick McGuirt, M.D.

Part VIII

Tumors of the Skin 1221

- 58 Clinical Evaluation of Tumors of the Skin** 1222
Michael J. O'Donnell, M.D. • Duane C. Whitaker, M.D.
- 59 Pathology of Skin Tumors of the Head and Neck** 1247
Maria I. Colome-Grimmer, M.D. • J. Leslie Smith, Jr., M.D.†
- 60 Nonmelanoma Skin Cancer: Biologic Behavior and Surgical Therapy** 1276
Robert R. MacDonald III, M.D. • Brock D. Ridenour, M.D.
- 61 Radiation Therapy of Tumors of the Skin of the Head and Neck** 1293
Peter J. Fitzpatrick, M.B., B.S. • Juanita M. Crook, M.D.

†Deceased.

- 62** Controversy in the Management of Tumors of the Skin 1309
Gregory J. Renner, M.D. • David A. Gaston II, M.D. • David P. Clark, M.D.

Part IX

- Tumors of the Neck 1321**
- 63** Pathology of Selected Soft-Tissue Tumors of the Head and Neck 1322
Michael Kyriakos, M.D. • Samir El-Mofty, D.M.D., Ph.D.
- 64** Clinical Evaluation and Surgical Treatment of Malignant Tumors of the Neck 1395
David E. Schuller, M.D. • Roy E. Nicholson, M.B., Ch.B.
- 65** Evaluation and Surgical Management of Tumors of the Neck: Benign Tumors 1416
Steven M. Sobol, M.D. • Sean B. Bailey, M.D.
- 66** Radiation Therapy of Tumors of the Neck 1450
Robert D. Lindberg, M.D. • Kristie J. Paris, M.D. • Gilbert H. Fletcher, M.D.†
- 67** Controversies in Management of Cancer of the Neck 1479
Sharon L. Collins, M.S., M.D.

Part X

- Dental and Jaw Tumors 1565**
- 68** Odontogenic Cysts and Tumors: Clinical Evaluation and Pathology 1566
R. Keith McDaniel, D.D.S., M.S., B.A.
- 69** Management of Odontogenic Cysts and Tumors 1611
Jeffery C. B. Stewart, D.D.S., M.S. • Norman J. Betts, D.D.S., M.S. • H. Dexter Barber, D.D.S. • Edward Ellis III, D.D.S., M.S. • Raymond J. Fonseca, D.M.D.
- 70** Non-odontogenic Tumors: Clinical Evaluation and Pathology 1637
John G. Batsakis, M.D.

- 71** Surgical Treatment of Non-odontogenic Tumors 1674
Richard F. Scott, D.D.S., M.S. • Edward Ellis III, D.D.S., M.S.

Part XI

- Tumors of the Thyroid and Parathyroid Glands 1693**
- 72** Clinical Evaluation of Thyroid Tumors 1694
Stefan K. G. Grebe, M.D. • Ian D. Hay, M.B., Ph.D.
- 73** Pathology of Thyroid Tumors 1710
Ronald H. Nishiyama, M.D. • Douglas M. Dressel, M.D.
- 74** Nuclear Medicine Therapy for Thyroid Cancer 1722
William H. Blahd, M.D.
- 75** Surgical Therapy of Thyroid Tumors 1727
Melvin A. Block, M.D., Ph.D.
- 76** Clinical Evaluation of Parathyroid Tumors 1752
Howard J. Heller, M.D. • Neil A. Breslau, M.D.
- 77** Pathology of Parathyroid Tumors 1775
Ronald H. Nishiyama, M.D.
- 78** Surgical Therapy of Parathyroid Tumors 1786
L. Michael Brunt, M.D. • Gregorio A. Sicard, M.D.
- 79** Controversy in the Management of Tumors of the Thyroid and Parathyroid Glands 1806
Geoffrey B. Thompson, M.D. • Oliver H. Beahrs, M.D.
- Part XII**
- Tumors of the Trachea 1819**
- 80** Management of Tumors of the Trachea 1820
Douglas J. Mathisen, M.D. • Hermes C. Grillo, M.D.

†Deceased.

Part XIII

Special Topics	1845		
81 Tumors of the Head and Neck in Children	1846		
<i>Robin T. Cotton, M.D. • Michael A. Rothschild, M.D. • Theodore Zwerdling, M.D. • Edgar T. Ballard, M.D. • Charles M. Myer III, M.D. • Bernadette Lu Koch, M.D.</i>			
82 Lymphoreticular Disorders of the Head and Neck: Pathology	1903		
<i>Kenneth D. McClatchey, D.D.S., M.D. • Bertram Schnitzer, M.D.</i>			
83 Diagnosis and Treatment of Lymphomas		1919	
<i>Roger Stupp, M.D. • Everett E. Vokes, M.D.</i>			
84 Granulomatous and Lymphoproliferative Diseases of the Head and Neck		1931	
<i>Timothy J. O'Hare, M.D., Ph.D.</i>			
Index		1983	