

Contents

1 Introduction

K. Kian Ang, Hisham M. Mehanna

Clinical Assessment and Imaging Evaluation of Recurrence	1
Principles of the Assessment of Potential Recurrence	1
History and Examination	1
Previous Treatment Records	2
Imaging	2
Examination under Anesthetic	4
Needle or Open Biopsy	4

2 Molecular Biology of Recurrence

Kevin J. Harrington

Introduction	7
The Biology of Treatment Resistance	7
Activation of Alternative Signaling Pathways	12
Biological Processes Involved in Metastasis	12
Conclusions	14

3 Imaging Modalities for Head and Neck Cancer Recurrence

Oludolapo O. Adesanya

Therapy-related Changes in the Head and Neck Region	17
Imaging Modalities for Detection of Recurrence	38
Imaging for Recurrence at Specific Sites	47

4 Concurrent Chemotherapy and Re-irradiation for Recurrent Head and Neck Cancer

Kevin S. Choe, Joseph Kamel Salama, Ezra E.W. Cohen

Introduction	67
Reasons for Tumor Recurrence Following Definitive Therapy	67
Regimens for Concurrent Chemotherapy with Re-irradiation	68
Evidence for Concurrent Chemotherapy with Re-irradiation	68
Brachytherapy for Recurrent Head and Neck Cancer	70
Patient Selection and Prognostic Factors	70
Simulation and Planning for Re-irradiation	72
Treatment Volume Definition	72
Beam Arrangement	73
Advances in Delivery of Radiation	73
New Approaches to CRRT	74
Conclusion	75

5 Systemic Therapy in the Treatment of Recurrent and Metastatic Head and Neck Carcinoma

Lisa Licitra, Jan B. Vermorken, Pol Specenier, Augusto Caraceni

Patient's Clinical Profile and Assessment	81
Clinical Decision Making	82
Medical Treatment	83
Special Issues in End-of-Life Supportive Care	89

6 Principles and Concepts of Reconstruction in the Recurrent Setting

Ralph Gilbert

Introduction	95
Issues in Surgical Approach—Impact of Previous Treatment	95
Management of the Vessel-depleted Neck	96
Site-specific Defect Considerations	96
Conclusion	99

7 Patient Selection for Treatment

Vinidh Paleri, Charles G. Kelly

Introduction	101
Assessment of the Recurrent Cancer	101
Factors Involved in Treatment Selection	102
Involving the Patient in the Decision-making Process	105
Treatment Options	107

8 Recurrent Laryngeal Cancer

Marc A. Cohen, Ramez Nassif, David P. Goldstein, Ralph Gilbert, Patrick Gullane

Introduction	113
Epidemiology	113
Diagnosis of Recurrent Laryngeal Cancer	114
Staging of Recurrent Laryngeal Cancer	114
Principles of Management	115
Surgical Management of Recurrent Disease	116

9 Management of Recurrent Hypopharyngeal Cancer

Jarrod Homer, Nick Slevin, Priyamal Silva

Incidence and Patterns of Recurrence in Hypopharyngeal Cancer	127
Detection of Recurrent Disease	127
Principles of Management	128
Surgical Techniques of Salvage	128
Pharyngolaryngectomy	129
Re-irradiation for Recurrent Hypopharyngeal Cancer	131

10 Carcinoma of the Oral Cavity

Alexander D. Rapidis, Hisham M. Mehanna, K. Kian Ang

Introduction	133
Posttreatment Surveillance	133
Diagnosis of Recurrence	134
Principles of Management	134
Surgical Approaches and Techniques	135
Outcomes	139

11 Carcinoma of the Oropharynx

Mark E. Zafereo, Beth M. Beadle, Randal S. Weber

Epidemiology	145
Prognostic Factors	145
Investigations	146
Principles of Management	147
Outcomes	153

12 Management of Nodal Recurrence

Hisham M. Mehanna, Miroslav Tedla, K. Kian Ang,

Christopher M. Nutting

Introduction	163
Incidence and Distribution of Nodal Recurrence	163
Evaluation of Nodal Recurrence	163
Management	165
Special Considerations	167
Outcomes	170
Complication Rates	171

13 Carcinoma of the Nasopharynx

William I. Wei, Lai Wan Dora Kwong

Epidemiology	175
Clinical Features	176
Investigations	176
Principles of Management	176
Surgical Techniques	178
Radiation Techniques	181
Chemotherapy	187
Targeted Therapy	187
Immunotherapy	187

14 Skull Base and Sinonasal Cancer

Claudio R. Cernea, Lenine Garcia Brandão, Eduardo Weltman

Introduction	191
Prevalence and Prognostic Factors	191
Clinical Assessment and Work-up	191
Principles of Management	192
Therapy Techniques	193
Chemotherapy	195
Outcomes	195

15 Recurrent Differentiated Thyroid Cancer

N. Gopalakrishna Iyer, Ashok R. Shaha, R. Michael Tuttle

Introduction	199
Differentiated Thyroid Cancer	199
Principles of Management	203
Conclusion	207

16 Recurrent Salivary Gland Carcinoma and Pleomorphic Adenoma

Alfonsus J.M. Balm, Jan Paul de Boer, Coen R.N. Rasch

Salivary Gland Carcinoma	211
--------------------------------	-----

Recurrent Pleomorphic Adenoma

221

17 Recurrent Melanotic and Nonmelanotic Skin Cancer

Michael Veness, Gary Morgan, Julie Howle

Epidemiology	229
Prognostic Factors	229
Patterns of Recurrence	230
Primary Lesion Treatment	230
Regional Treatment	232
Recurrence	233
Principles of Management	235

18 Prognosis of Recurrent Head and Neck Cancer

R.J. Baatenburg de Jong, M.P. van der Schroeff

Introduction	245
Prognostic Factors	245
Individualized Prognosis in Recurrent HNSCC	249
Routine Follow-up and Recurrent Disease	250
Conclusion	251

19 Rehabilitation after Treatment for Recurrent Head and Neck Cancer

Alison Perry, Julia Maclean

Introduction	253
A Supportive Care Team	253
Rehabilitation Needs of Patients with Recurrent Cancer	253
Symptoms and Their Management	255
Supportive Care Services; "Surviving Survivorship"	259
Exemplary Case Studies	259

20 Psychosocial Aspects of Recurrent Head and Neck Cancer

Marinella P.J. Offerman, Maarten F. de Boer, R.J. Baatenburg de Jong, Jean F.A. Pruyne

Introduction	265
Studies on Psychosocial Response after Head and Neck Cancer Recurrence	265
Studies on Fear of Recurrence	267
Current Research	267
The Doctor's Message: "The Cancer is Back"	268
After the News of Recurrence ... How to Go On?	270
Patients' Suggestions for the Professional	271
Summary	272
Concluding Thoughts	272

21 Palliative and Psychosocial Issues in Advanced Head and Neck Cancer

Dan Munday, Cherith J. Semple

Introduction	277
Pain Control in Advanced Head and Neck Cancer	277
Oral Problems in Head and Neck Cancer	279
Swallowing and Nutrition	281
Management of Complex Wounds	283
Psychosocial Issues	286
Management of the Last Days of Life	288
Conclusion	290

Subject Index

295