

Cambridge University Press
978-0-521-88691-8 - Squamous Cell Cancer of the Neck
Edited by Robert Hermans
Frontmatter
[More information](#)

Squamous Cell Cancer of the Neck

Cambridge University Press
978-0-521-88691-8 - Squamous Cell Cancer of the Neck
Edited by Robert Hermans
Frontmatter
[More information](#)

Contemporary Issues in Cancer Imaging

A Multidisciplinary Approach

Series Editor

Rodney H. Reznick

Cancer Imaging, St Bartholomew's Hospital, London

Editorial Adviser

Janet E. Husband

Diagnostic Radiology, Royal Marsden Hospital, Surrey

Current titles in the series

Cancer of the Ovary

Lung Cancer

Colorectal Cancer

Carcinoma of the Kidney

Carcinoma of the Esophagus

Carcinoma of the Bladder

Forthcoming titles in the series

Prostate Cancer

Pancreatic Cancer

Interventional Radiological Treatment of Liver Tumors

Gastric Cancer

Primary Carcinomas of the Liver

Breast Cancer

Cambridge University Press
978-0-521-88691-8 - Squamous Cell Cancer of the Neck
Edited by Robert Hermans
Frontmatter
[More information](#)

Squamous Cell Cancer of the Neck

Edited by

Robert Hermans

Series Editor

Rodney H. Reznick

Editorial Adviser

Janet E. Husband



CAMBRIDGE
UNIVERSITY PRESS

Cambridge University Press
978-0-521-88691-8 - Squamous Cell Cancer of the Neck
Edited by Robert Hermans
Frontmatter
[More information](#)

CAMBRIDGE UNIVERSITY PRESS

Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo, Delhi

Cambridge University Press
The Edinburgh Building, Cambridge CB2 8RU, UK

Published in the United States of America by Cambridge University Press, New York

www.cambridge.org
Information on this title: www.cambridge.org/9780521886918

© R. Hermans 2009

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First published 2009

Printed in the United Kingdom at the University Press, Cambridge

A catalog record for this publication is available from the British Library

ISBN 978-0-521-88691-8 hardback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication, and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

Every effort has been made in preparing this publication to provide accurate and up-to-date information which is in accord with accepted standards and practice at the time of publication. Although case histories are drawn from actual cases, every effort has been made to disguise the identities of the individuals involved. Nevertheless, the authors, editors and publishers can make no warranties that the information contained herein is totally free from error, not least because clinical standards are constantly changing through research and regulation. The authors, editors and publishers therefore disclaim all liability for direct or consequential damages resulting from the use of material contained in this publication. Readers are strongly advised to pay careful attention to information provided by the manufacturer of any drugs or equipment that they plan to use.

Contents

<i>List of contributors</i>	<i>page</i> vi
<i>Series Foreword</i>	
Rodney H. Reznak	vii
<i>Preface to Squamous Cell Cancer of the Neck</i>	ix
1 Introduction: epidemiology, pathology and clinical presentation	
Vincent Vander Poorten	1
2 Radiotherapy and chemoradiotherapy of the head and neck	
Sandra Nuyts	19
3 Surgery of the orocervical region	
Pierre R. Delaere	35
4 Laryngeal and hypopharyngeal cancer	
Frédérique Dubrulle, Raphaëlle Souillard, Dominique Chevalier and Philippe Puech	48
5 Oral cavity and oropharyngeal cancer	
Lawrence E. Ginsberg	67
6 Nasopharyngeal cancer	
Vincent F. H. Chong	94
7 Neck and distant disease spread	
Ann D. King	114
8 Post-treatment imaging	
Robert Hermans	135
<i>Index</i>	151

The color plates are between pages 34 and 35.

Contributors

Dominique Chevalier

Service d'O.R.L. et de chirurgie
cervico-faciale
Hôpital Claude Huriez
Lille, France

Vincent F. Chong

Department of Diagnostic Radiology
National University of Singapore
Singapore

Pierre R. Delaere

Department of Otorhinolaryngology,
Head and Neck Surgery
University Hospitals Leuven
Leuven, Belgium

Frédérique Dubrulle

Service de Radiologie
Hôpital Claude Huriez
Lille, France

Lawrence E. Ginsberg

Department of Diagnostic Radiology
M. D. Anderson Cancer Center
University of Texas
Houston, Texas
USA

Robert Hermans

Department of Radiology
University Hospitals Leuven
Leuven, Belgium

Ann D. King

Department of Diagnostic Radiology and Organ
Imaging
Faculty of Medicine
The Chinese University of Hong Kong
Shatin, Hong Kong
China

Sandra Nuyts

Department of Radiation Oncology
University Hospitals Leuven
Leuven, Belgium

Philippe Puech

Service de Radiologie
Hôpital Claude Huriez
Lille, France

Vincent Vander Poorten

Department of Otorhinolaryngology,
Head and Neck Surgery
University Hospitals Leuven
Leuven, Belgium

Raphaëlle Souillard

Service de Radiologie
Hôpital Claude Huriez
Lille, France

Series Foreword

Imaging has become pivotal in all aspects of the management of patients with cancer. At the same time, it is acknowledged that optimal patient care is best achieved by a multidisciplinary team approach. The explosion of technological developments in imaging over the past years has meant that all members of the multidisciplinary team should understand the potential applications, limitations and advantages of all the evolving and exciting imaging techniques. Equally, to understand the significance of the imaging findings and to contribute actively to management decisions and to the development of new clinical applications for imaging, it is critical that the radiologist should have sufficient background knowledge of different tumors. Thus, the radiologist should understand the pathology, the clinical background, the therapeutic options and the prognostic indicators of malignancy.

Contemporary Issues in Cancer Imaging – A Multidisciplinary Approach aims to meet the growing requirement for radiologists to have detailed knowledge of the individual tumors in which they are involved in making management decisions. A series of single subject issues, each of which will be dedicated to a single tumor site, edited by recognized expert guest editors, will include contributions from basic scientists, pathologists, surgeons, oncologists, radiologists and others.

While the series is written predominantly for the radiologist, it is hoped that individual issues will contain sufficient varied information so as to be of interest to all medical disciplines and to other health professionals managing patients with cancer. As with imaging, advances have occurred in all these disciplines related to cancer management and it is our fervent hope that this series, bringing together expertise from such a range of related specialties, will not only promote the understanding and rational application of modern imaging but will also help to achieve the ultimate goal of improving outcomes of patients with cancer.

Rodney H. Reznik

Preface to Squamous Cell Cancer of the Neck

Squamous cell cancer is one of the most common neoplasms in the head and neck. In this complex anatomical environment, accurate staging of neoplasm is a challenging task. As these lesions originate from the mucosal lining, the clinician is often able to detect their presence; however, it may be difficult or impossible to appreciate, based on the physical examination, the entire submucosal tumor extension, or the possible regional and distant disease spread.

Modern imaging tools provide a reliable visualization of the head and neck tissues. Carefully performed cross-sectional imaging allows an accurate evaluation of the local and regional cancer extent, and the exclusion or detection of distant metastasis.

The radiologist is an important member of the multidisciplinary team managing patients with head and neck cancer. Recent evolutions, such as positron emission tomography–computed tomography (PET–CT) and diffusion-weighted magnetic resonance imaging, have further increased the impact of imaging in oncological patient care. The added value of existing imaging techniques, such as CT, in choosing the optimal treatment strategy and in monitoring tumor response, is now scientifically established.

The purpose of this book is to review state-of-the-art imaging in head and neck squamous cell cancer, and to describe its role within the overall diagnostic and therapeutic management of this disease.

Robert Hermans