

ORIGINAL ARTICLE

Survival of patients with head and neck cancer with metachronous multiple primary tumors is surprisingly favorable

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Abstract

Background: The objectives of this study are to determine the incidence and survival rate of patients with head and neck squamous cell carcinoma (HNSCC) with multiple primary tumors (MPT) in the HN-region, lung, or esophagus.

Methods: Patient and tumor specific data of 1372 patients with HNSCC were collected from both the national cancer registry and patient records to ensure high-quality double-checked data.

Results: The total incidence of MPTs in the HN-region, lung, and esophagus in patients with HNSCC was 11% (149/1372). Patients with lung MPTs and esophageal MPTs had a significant worse 5-year survival than patients with HN-MPTs (29%, 14%, and 67%, respectively, $P < 0.001$). The 5-year survival rate for synchronous HN MPTs was only 25%, whereas it was surprisingly high for patients with metachronous HN MPT (85%, $P < 0.001$).

Conclusions: One of 10 patients with HNSCC develop MPTs in the HN-region, lung, or esophagus. The 5-year survival of patients with metachronous HN MPTs was surprisingly favorable.

KEYWORDS

esophageal cancer, head and neck cancer, incidence, multiple primary tumors, survival analysis

1 | INTRODUCTION

Head and neck cancer (lip, oral cavity, nasopharynx, oropharynx, hypopharynx, and larynx) has an increasing incidence with 686 000 new cases and 404 000 associated mortalities worldwide in 2012.¹ The majority of head and neck tumors are squamous cell carcinoma (HNSCC).² Due to advances in surgical and radiotherapy and chemotherapy techniques, the 5-year survival of patients with HNSCC has improved from 55% in 1992-1996 to 66% in 2002-2006.³

This relatively low survival rate could be explained by high tumor stages at diagnosis, patient delay before diagnosis, and a high incidence of tumor recurrence.⁴⁻⁷ Another important factor affecting survival might be the development of multiple primary tumors (MPTs) in the head and neck region (HN-region) but also in associated organs such as the lung and esophagus.^{2,8}

MPTs are squamous cell tumors, which develop at or after diagnosis of the index tumor.^{9,10} Patients with second (SPT), third, fourth, or even more primary tumors are defined as

Multiple Primary Tumors In The Head And Neck

Mieczyslaw Pokorski



Multiple Primary Tumors In The Head And Neck:

Multiple Primary Tumors in the Head and Neck Peter Boyle,1990 *Head and Neck Cancer* Louis B. Harrison,Roy B. Sessions,Waun Ki Hong,2009 This comprehensive multidisciplinary text addresses all aspects of head and neck cancer and represents a wide spectrum of specialists including surgical radiation and medical oncologists dentists pathologists radiologists and nurses The book focuses on a two part approach to treatment that maximizes the chance for a cure while maintaining a strong emphasis on quality of life This Third Edition s updated techniques section includes new radiation techniques such as IMRT and IGRT and new endoscopic and laser surgical techniques Other highlights include a new chapter on reconstructive techniques significant updates to all site specific chapters updates on chemoprevention and molecular targeting and discussions of new imaging modalities such as fused PET CT A companion Website will offer the fully searchable text with all images **The Prevention of Second Primary Cancers** David I. McLean,2008-01-01 A second primary cancer SPC is a new primary cancer developing in a person with a history of cancer at a new site or tissue and subsequent to the initial cancer Advances in cancer treatment have led to marked improvements in cancer cure rates over the past 30 years and the control of risk factors has further increased longevity Still cancer survivors are at increased risk not only for recurrence of the primary cancer but also for the development of second primary malignancies the latter being especially true for survivors of childhood cancer SPCs are now more common and research into them has intensified This monograph provides a synthesis of the current research on SPC culminating in pertinent summary charts covering the whole spectrum of first and second primary cancers and the association between them Readers will gain a general understanding of the epidemiology and of the excess risk of SPCs following an implicated first malignancy The known or suspected etiologic factors for SPCs are identified and the field is further narrowed to those factors that are modifiable in practice Effective preventive measures that might reduce the burden of SPC both for individuals and across at risk populations are presented Providing practical guidance in terms of possibilities and priorities this monograph will be a valuable tool for oncologists general practitioners and health administrators **Head and Neck Cancer** Waun Ki Hong,Randal S. Weber,2012-12-06 Throughout the world head and neck cancer is a major threat to public health and a significant challenge to both clinicians and basic scientists Despite extensive efforts in primary prevention screening early detection and therapy long term survival rates have not improved substantially in the last three decades This book covers a wide range of exciting new findings in both clinical and basic sciences as they are relevant to head and neck cancer These findings have recently enhanced our understanding of head and neck carcinogenesis at the genetic and molecular levels offering the promise of improved preventive and therapeutic strategies This book will also present information on the important clinical advances that have been made in chemoprevention organ preservation and the simultaneous use of chemo therapy and radiotherapy The first part provides an overview of the etiology and biology of head and neck cancer including an examination of human

papillomaviruses in both benign and malignant lesions This section also discusses the carcinogenic process at the genetic and molecular levels as well as aberrant squamous differentiation increased understanding of these areas has great potential to translate into new strategies for cancer prevention The second part describes recent advances in developing a risk model for head and neck cancer as well as the application of genetic susceptibility data in chemoprevention This section also includes overviews of the status of chemoprevention trials and of the process of invasion and metastasis in head and neck cancer

Head & Neck Cancer and Esophageal Cancer: From Biosignatures to Therapeutics Victor C.

Kok,Cheng-Chia Yu,Jorge A. R. Salvador,2021-05-11

Gnepp's Diagnostic Surgical Pathology of the Head and Neck

E-Book Douglas R. Gnepp,Justin A. Bishop,2020-05-05 Offering the most comprehensive collection of head and neck pathology specimens available in one reference Gnepp s Diagnostic Surgical Pathology of the Head and Neck 3rd Edition is a must have resource for pathologists in training and practice This abundantly illustrated volume covers both common and rare disease entities of the entire head and neck area with particular emphasis on differential diagnosis and diagnostic problems and pitfalls Detailed text and a highly visual format help you improve turnaround time when diagnosing a specimen and facilitate clear communication of prognosis and therapeutic management options to surgical medical colleagues Covers key topics such as molecular aspects of disease especially in reference to targeted therapy and personalized medicine the latest classification and staging systems for head and neck diseases and disorders and immunohistochemical features that help ensure diagnostic accuracy Discusses new diagnostic biomarkers and their utility in differential diagnosis as well as newly described variants and new histologic entities Includes a new chapter on eye pathology Incorporates new criteria as established by the 2017 World Health Organization classification of Head and Neck tumors and the 2017 World Health Organization classification of Endocrine organ tumors Provides clinicopathologic correlations throughout to give you all the information you need to formulate a complete diagnostic report Features more than 1700 full color illustrations that capture the pathologic appearance of the full range of common and rare neoplastic and non neoplastic lesions Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Head and Neck Cancer John Frederick Ensley,Silvio Gutkind,John A. Jacobs,Scott Lippman,2003-01-07 By detailing experimental and basic research from premalignancy to fully invasive tumors this book has wide applicability to all human carcinomas No other group of human cancers is better positioned for the application of recently developed novel and targeted therapies and this book uniquely presents the unusual opportunities tumors of the head and neck provide for clinical translational and basic science research Cutting edge and experimental treatment approaches are presented along with future strategies and an evaluation of emerging technologies Presents a multi disciplinary perspective from authorities in diverse fields Addresses state of the art approaches in cancer research as well as other scientific opportunities in this field Provides comprehensive yet easily comprehensible source of information

Journal of the National Cancer Institute ,2006 Laryngeal Cancer: New Insights for the Healthcare Professional: 2012 Edition ,2012-12-10 Laryngeal Cancer New Insights for the Healthcare Professional 2012 Edition is a ScholarlyPaper that delivers timely authoritative and intensively focused information about Laryngeal Cancer in a compact format The editors have built Laryngeal Cancer New Insights for the Healthcare Professional 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Laryngeal Cancer in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Laryngeal Cancer New Insights for the Healthcare Professional 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Pathobiology of Human Disease ,2014-08-01 Pathobiology of Human Disease bridges traditional morphologic and clinical pathology molecular pathology and the underlying basic science fields of cell biology genetics and molecular biology which have opened up a new era of research in pathology and underlie the molecular basis of human disease The work spans more than 48 different biological and medical fields in five basic sections Human Organ Systems Molecular Pathology Basic Mechanisms of Diseases Animal Models Other Model Systems Experimental Pathology Clinical Pathology Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from research professionals to advanced undergraduate students Reviews quantitative advances in the imaging and molecular analysis of human tissue new microarray technologies for analysis of genetic and chromosomal alterations in normal and diseased cells and tissues and new transgenic models of human disease using conditional tissue specific gene targeting Articles link through to relevant virtual microscopy slides illustrating side by side presentation of Normal and Disease anatomy and histology images Fully annotated with many supplementary full color images graphs tables and video files linked to data sets and to live references enabling researchers to delve deeper and visualize solutions Insights in Cancer Epidemiology and Prevention: 2021 Paolo Boffetta,Dana Kristjansson,2022-11-30

Diseases of the Nose, Throat, Ear, Head, and Neck John Jacob Ballenger,1991 Shows normal human anatomy and physiology to facilitate an understanding of the various signs and symptoms of disease and the rational of appropriate modalities of treatment **Cumulated Index Medicus** ,1978 **Advances in Respiratory Cancerogenesis** Mieczyslaw Pokorski,2016-05-19 Lung cancer is the leading cause of mortality worldwide with a low survival rate Carcinogenesis generally requires a constellation of entwined steps involving both innate cellular and environmental factors This book shares the updated knowledge on the origin and development of cancer through genotypic changes which upset the physiological balance between cell proliferation differentiation growth control and apoptosis The emphasis is put on the role of microRNA proteins involved in the cellular processes above outlined Cognitive changes related

to dysregulated cellular mechanisms in cancer cells as yet uncharted area of research also are tackled A better understanding of the molecular and cellular biology of lung cancer is the key source of breakthroughs in the diagnosis and prognosis and finding more effective therapies that target specific mutations The book provides a source of current facts and trends in clinical research and practice It will be of interest to clinicians researchers and other medical professionals

Cancer Screening Barnett S. Kramer, John K. Gohagan, Philip C. Prorok, 2021-09-01 This useful reference provides solid knowledge of the risks and benefits associated with the cancer screening process assesses abnormal results and therapeutic outcomes and facilitates the communication of these issues to patients Describes screening tests from individual health care ethical legal and regulatory perspectives Gatherin

Peterson's Principles of Oral and Maxillofacial Surgery Larry J. Peterson, 2012 Peterson's Principles of Oral and Maxillofacial Surgery Third Edition encompasses a wide range of diverse topics making it a unique text amongst the medical and dental specialties The purpose of this concise easy to read two volume text is to provide an authoritative and currently referenced survey of the specialty of Oral and Maxillofacial Surgery It contains the necessary information for clinicians and is an ideal reference text for preparation for board certification in the specialty

Genetic Predisposition to Cancer, 2Ed Ros Eng, Douglas Easton, Bruce Ponder, Charis Eng, 2004-08-27 Over the last 20 years it has become increasingly apparent that the occurrence of many cancers can have an inherited basis This book examines the principles underlying genetic predisposition to cancer and will be relevant to practising oncologists geneticists and other professionals interested in this rapidly expanding field Coverage is comprehensive taking the reader from an introduction to genetic predisposition through a discussion of the molecular biology and statistical techniques involved in the identification and characterisation of predisposition genes to a consideration of heritable cancer syndromes and encompasses both rare and common cancers The text also features a discussion of cancer risk assessment genetic counselling issues genetic screening and cancer management options and a consideration of the associated ethical and psychological issues Building on the reputation of the previous edition and to reflect the rapid advances in the field since its publication the contents of the second edition have been thoroughly updated and include discussion of many newly identified cancer genes In particular the book features new chapters added on the biological basis of cancer predisposition population based studies of susceptibility and evaluation of management strategies for individuals at increased cancer risk

Neurological Complications of Systemic Cancer and Antineoplastic Therapy Herbert B. Newton, Mark G. Malkin, 2016-04-19 Neurological Complications of Systemic Cancer and Antineoplastic Therapy provides an in depth review of common manifestations related to neurology that occur in patients with systemic cancer These include brain metastases spinal cord compression cerebrovascular events and leptomeningeal disease The book also discusses less common complications

Carcinoma of the Oral Cavity and Oropharynx H.-D. Pape, U. Ganzer, G. Schmitt, 2012-12-06 In spite of great advance made by ENT and maxillofacial surgeons as well as radiotherapists to improve therapy of cancer of the oral cavity

and oropharynx it has not been possible in the past 4 decades to raise the chances of patient survival above 40% 45%
However recent studies with different combination therapies indicate that better results can be expected in the future In this
volume the current status and results of therapeutic studies are presented by distinguished clinicians in the three disciplines
The book provides up to date information and encourages interdisciplinary cooperation *The Annals of Otology, Rhinology
& Laryngology* ,1995

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