

# Head and neck imaging

## Presentation

A 26-year-old lady presented with a painful paramedian anterior neck mass. These are her ultrasound and CT scan images.



FIGURE 1: Sagittal Bi-moder sonar image.

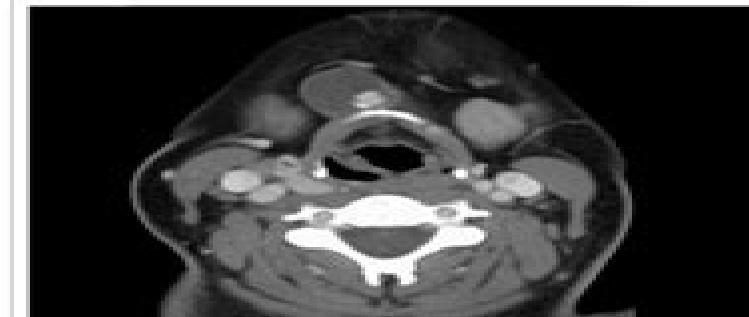


FIGURE 2: Axial CT scan image at level of hyoid bone.



FIGURE 3: Sagittal paramedian CT scan image.



FIGURE 4: Coronal CT scan image of anterior neck triangles.

Describe the relevant findings and provide the most appropriate clinical diagnosis. Please submit your response to Dr Misser at [misser@lakesent.co.za](mailto:misser@lakesent.co.za) not later than 11 July 2014. The winning respondent will receive a R1000 award from the RSSA. A detailed diagnosis and discussion will be presented later this year.

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# Modern Head And Neck Imaging

**J Dewey**

## **Modern Head And Neck Imaging:**

*Modern Head and Neck Imaging* S.K. Mukherji, J.A. Castelijns, 2012-12-06 Historically the diagnosis of clinical problems in the head and neck has relied on a combination of physical examination and plain film radiography. Although Ziedses des Plantes invention of tomography had a major impact on head and neck diagnosis it remained for the development of CT, MR and modern nuclear medicine to truly revolutionize the specialty. Not only have these new techniques provided better definition of osseous structures and soft tissues but adaptations of these techniques have allowed us to study function as well as anatomy. Utilization of the modern imaging techniques has also provided a springboard for new interventional techniques which promise to redefine the treatment of head and neck problems. As a consequence there are now many highly specific diagnostic and therapeutic applications of these new technologies that are not familiar to the average practicing radiologist or otolaryngologist. Drs Mukherji and Castelijns have made an important contribution by bringing together a group of outstanding authors from around the world who explain in detail how these new techniques can be applied and what their impact is on patient care. Included among the authors are both radiologists and otolaryngologists. The volume will serve as a practical easy reference guide to physicians when unusual problems are encountered in this somewhat unfamiliar area of patient care of particular value to the radiologist who deals with these care. The volume should be new modalities on a day to day basis.

**Clinical Target Volumes in Conformal and Intensity Modulated Radiation Therapy** Vincent Gregoire, Pierre Scalliet, Kie-Kian Ang, 2013-06-29 Conformal radiation therapy represents a new challenge for radiation oncologists. It offers the prospect of either increasing the radiation dose to target tissues while delivering a similar dose to organs at risk or reducing the dose to organs at risk while maintaining the dose to target tissues. First lymph node areas at risk are established using the available data from pathological examination of surgical specimens and/or pattern of locoregional relapse. Then based on a three dimensional description of the anatomical regions where the areas at risk are located guidelines for the delineation of the clinical target volumes are proposed. The data presented should enable the reader to make appropriate decisions regarding the selection and delineation of the target volumes when confronted with the most frequent tumor types and sites. The book will contribute to paving the way for more effective radiation oncology in the twenty first century.

**Computed Body Tomography with MRI Correlation** Joseph K. T. Lee, 2006 Grundliggende i rebog om CT og MRI og disses anvendelse i forbindelse med undersøgelser af kroppens organer. Først beskrives principperne bag CT teknik og MRI og derefter gennemgøres undersøgelser af kroppens organer systematisk. Bogen beskriver både normale og abnorme fund med tekst og billeder og giver instruktioner i hvorledes man optimerer billedkvalitet, analyse og fortolkninger samt undgår de mest almindelige fejlfortolkninger.

**Misch's Contemporary Implant Dentistry E-Book** Randolph Resnik, 2020-01-25 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Dentistry. Dental implant surgery is an artform. To help you advance your skills and become a master of implant prosthetics. Misch's Contemporary Implant Dentistry 4th Edition

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**Misch's Contemporary Implant Dentistry, 4th edition-South Asia Edition E-Book** Randolph Resnik, 2020-05-30

Dental implant surgery is an artform. To help you advance your skills and become a master of implant prosthetics, Misch's Contemporary Implant Dentistry South Asia Edition uses a multidisciplinary approach to cover the industry's most current processes and surgical procedures. The new edition of this text continues to provide comprehensive state of the art information on the science and discipline of contemporary implant dentistry. Covering the breadth of dental implant surgery, it includes full color in depth coverage of both simple and complicated clinical cases with practical guidance on how to apply the latest research, diagnostic tools, treatment planning, implant designs and materials. New author Randolph R. Resnik is an internationally known educator, clinician and researcher in the field of Oral Implantology and Prosthodontics who will continue Dr. Misch's legacy and teachings. Content reflects original author's philosophy and surgical protocols for dental implants giving you a system for achieving predictable outcomes. Evidence based approach to dental implant procedures features state of the art guidance supported by the best available research evidence. Rich art program throughout text.

highlights and clarifies key clinical concepts and techniques with over 2 500 images radiographs full color clinical photographs line art and diagrams Definitive resource in implant dentistry provides you with authoritative state of the art guidance by recognized leader in the field **Contemporary Oral Oncology** Moni Abraham Kuriakose,2016-12-13 This is the second of four volumes that together offer an authoritative in depth reference guide covering all aspects of the management of oral cancer from a multidisciplinary perspective and on the basis of a strong scientific foundation This volume addresses a range of management issues in oral cancer from imaging and staging through to the roles of radiation therapy and chemotherapy Principles of ablative surgery are explained and neck dissection and sentinel lymph node biopsy techniques described Detailed consideration is also given to the management of complications salvage surgery and re radiation the biologic basis of treatment failure and emerging approaches to overcome treatment resistance The inclusion of resource stratified guidelines will meet the needs of practitioners in different geographic regions with varying resources Overview on all volumes Volume 1 Biology Epidemiology Etiology and Prevention Volume 2 Diagnosis and Management Volume 3 Oral and Maxillofacial Reconstructive Surgery Volume 4 Rehabilitation and Supportive Care Cummings Otolaryngology Head & Neck Surgery Charles William Cummings,2005 Often acknowledged as the most comprehensive authoritative reference in the field of otolaryngology head and neck surgery Its four volumes encompass the entire body of core knowledge as well as the most cutting edge developments within every otolaryngologic subspecialty A multitude of preeminent contributing experts ensure that the coverage is complete up to date and clinically relevant This 4th Edition features significant changes to the editorial team as well as sweeping updates to reflect all of the latest advances in basic science and clinical practice Plus all of the illustrations from the 4 volume set are included in a bonus CD ROM

Image-Guided IMRT Thomas Bortfeld,Rupert Schmidt-Ullrich,Wilfried De Neve,David E. Wazer,2006-05-28 Intensity modulated radiation therapy IMRT one of the most important developments in radiation oncology in the past 25 years involves technology to deliver radiation to tumors in the right location quantity and time Unavoidable irradiation of surrounding normal tissues is distributed so as to preserve their function The achievements and future directions in the field are grouped in the three sections of the book each suitable for supporting a teaching course Part 1 contains topical reviews of the basic principles of IMRT part 2 describes advanced techniques such as image guided and biologically based approaches and part 3 focuses on investigation of IMRT to improve outcome at various cancer sites *Head and Neck Imaging E-Book* Peter M. Som,Hugh D. Curtin,2011-04-11 Head and Neck Imaging by Drs Peter M Som and Hugh D Curtin delivers the encyclopedic and authoritative guidance you ve come to expect from this book the expert guidance you need to diagnose the most challenging disorders using today s most accurate techniques New state of the art imaging examples throughout help you recognize the imaging presentation of the full range of head and neck disorders using PET CT MRI and ultrasound Enhanced coverage of the complexities of embryology anatomy and physiology including original color drawings

and new color anatomical images from Frank Netter help you distinguish subtle abnormalities and understand their etiologies. Compare your imaging findings to thousands of crystal clear examples representing every type of head and neck disorder. Gain an international perspective from global authorities in the field. Find information quickly with a logical organization by anatomic region. Master the latest approaches to image guided biopsies and treatments. Utilize PET/CT scanning to its fullest potential including head and neck cancer staging, treatment planning and follow up to therapy. Visualize head and neck anatomy better than ever before with greatly expanded embryology, physiology and anatomy content including original drawings and new color anatomical images. Grasp the finer points of head and neck imaging quickly with more images, more detail in the images and more anatomic atlases with many examples of anatomic variants. Access the complete content and illustrations online at [www.expertconsult.com](http://www.expertconsult.com) fully searchable.

### **Imaging of Orbital and Visual Pathway**

**Pathology** Wibke S. Müller-Forell, 2002-02-28 This is one of the first books to deal with imaging of pathology of the entire visual system. It is divided into two parts: general and special. In the general part, the most important basics of modern imaging methods are discussed, but with less emphasis on the physical background than in purely neuro-radiological textbooks. Chapters are devoted to the meticulous presentation of imaging anatomy of the orbit and intracranial visual pathway. The latest knowledge on the indication, technique, and results of functional MR imaging is presented. Visual system impairment in the pediatric age group is also discussed. The special part of the book provides detailed descriptions of the symptoms and clinical and imaging findings in individual patients with orbital and intracranial pathologies. This book is specifically designed to be of value not only to neuroradiologists but also to ophthalmologists, neurosurgeons, oto-rhino-laryngologists, and neurologists who require more detailed information on these special diseases.

*Differential Diagnosis in Head and Neck Imaging* Thomas J. Vogl, 1999 With its complex anatomy and diversity of landmarks, the head and neck region poses a special challenge to clinical and radiologic diagnosis. Sound therapeutic decision making requires the use of modern imaging procedures to define the precise location and extent of pathologic processes and delineate the involvement of adjacent structures. Other important information is derived from the vascularity of a lesion, its internal structure, its homogeneity and the nature of its margins. All these criteria will suggest a radiologic differential diagnosis that forms the basis for an accurate interpretation of the findings. This book offers a systematic approach to differential diagnosis based on the experience gained in more than 4000 comparative clinical and radiologic examinations. Each chapter includes images that illustrate the differentiating criteria that are applied to various types of pathology. Besides demonstrating the key elements of an accurate differential diagnosis, the images show how radiologic tissue characterization is not possible for all lesions and how imaging can direct the biopsy procedures which may be needed to establish a diagnosis.

**Subject Guide to Books in Print**, 1996 **Diagnostic Imaging: Head and Neck - E-Book** Bernadette L. Koch, Surjith Vattoth, Philip R. Chapman, 2021-12-12 Covering the entire spectrum of this fast changing field, Diagnostic Imaging: Head and Neck, fourth

edition is an invaluable resource for neuroradiologists general radiologists and trainees anyone who requires an easily accessible highly visual reference on today's head and neck imaging Dr Philip R Chapman and his team of highly regarded experts provide up to date information on recent advances in disease identification imaging techniques and tumor staging to help you make informed decisions at the point of care The text is lavishly illustrated delineated and referenced making it a useful learning tool as well as a handy reference for daily practice Serves as a one stop resource for key concepts and information on head and neck imaging including a wealth of new material and content updates throughout Features more than 2 800 illustrations including radiologic images full color illustrations clinical and gross pathology photographs and histology photographs as well as an additional 2 200 digital images online Features numerous new chapters and updates from cover to cover including changes to staging of HPV related p16 oropharyngeal squamous cell carcinoma new metastatic disease imaging recommendations protocols and treatments and the latest knowledge on the genetics of various congenital conditions and syndromes Reflects new Lugano and WHO classifications for staging lymphomas updates in the AJCC Cancer Staging Manual 8th Edition and updates from the 2018 ISSVA Classification regarding avoidance of outdated and inappropriate terminology and nomenclature that can lead to misdiagnosis or inappropriate treatments Uses bulleted succinct text and highly templated chapters for quick comprehension of essential information at the point of care *Head and Neck Imaging: Case Review Series E-Book* David M. Yousen, 2014-11-19 Incorporate today's most advanced imaging techniques with the new 4th edition of Head and Neck Imaging A bestselling volume in the popular Case Review Series this updated reference helps speed your differential diagnoses and ensure your proficiency in addition to serving as a study guide for general radiology and neuroradiology subspecialty examinations certificates of added qualification and radiology neuroradiology recertification The all inclusive volume can serve as a comprehensive review of the subspecialty and as a primer for excelling at the Head and Neck Tumor Boards Efficiently study and review with help from a format that mimics the General Diagnostic Radiology and Neuroradiology Board Exams Each case begins with a differential diagnosis question and follows with multiple choice questions answers with rationale and an emphasis on clinical issues Explore hot topics including CT and MR angiography of the neck multi detector CT with 3D reconstructions post transplant lymphoproliferative disorders HIV infections squamous cell carcinoma diagnostic and therapeutic image guided procedures medical economics and much more Master the latest techniques with 150 new and 50 updated head and neck cases and over 800 images focusing on differential diagnosis tumor staging treatment options and resectability issues Enhance your understanding with multiple choice questions accompanying each case emphasizing cranial nerves skull base lesions sinonasal orbital salivary gland aerodigestive system mucosal lesions and deep space neck masses Utilize convenient cross references to recent articles Stay abreast of the most recent discoveries in HPV squamous cell cancers high resolution imaging and CTA MRA and CISS applications Explore the differential diagnosis and or anatomic details of every case presented Understand the surgical

and radiation therapy considerations for cosmetic and functional outcomes Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices **Rhinology** ,2003 **Neuroimaging** ,2000 *Diagnostic Imaging: Head and Neck* Bronwyn E. Hamilton,Bernadette L. Koch,Surjith Vattoth,2025-09-25 Covering the entire spectrum of this fast changing field Diagnostic Imaging Head and Neck Fifth Edition is an invaluable resource for neuroradiologists general radiologists and trainees anyone who requires an easily accessible highly visual reference on today s head and neck imaging Drs Bronwyn E Hamilton Bernadette L Koch Surjith Vattoth Blair A Winegar and their team of highly regarded experts provide updated information on disease identification and imaging techniques to help you make informed decisions at the point of care The text is lavishly illustrated delineated and referenced making it a useful learning tool as well as a handy reference for daily practice Serves as a one stop resource for key concepts and information on head and neck imaging including disease identification imaging techniques and details on tumor staging and classification Reflects recent updates in genetic and molecular characterization of tumors congenital malformations and inflammatory autoimmune disorders which all have implications for targeted precision therapies Offers more than 400 concise informative chapters dividing content into sections based on head and neck spaces and anatomic regions with additional sections on cancers posttreatment appearances pediatric lesions and syndromic diseases Features more than 2 800 high quality print images with an additional 3 800 images in the complimentary eBook including radiologic images full color medical illustrations clinical photographs histologic images and gross pathologic photographs Provides new and expanded content on genomic characterization of head and neck cancers new characterizations of sinonasal tract and skull base tumors through distinctive genetic and molecular signatures as reflected in the WHO s 2022 reclassification newer imaging techniques to characterize neuroendocrine tumors and spread using DOTATATE PET whole body imaging surveillance strategies for Li Fraumeni syndrome hereditary paraganglioma pheochromocytomas and hereditary retinoblastoma and the use of whole body MR for tumor syndromes multifocal vascular anomalies and much more Emphasizes multidisciplinary involvement to help radiologists navigate the intersection of multiple specialties and confidently guide a wide variety of clinicians and surgeons to the appropriate diagnosis and treatment for a multitude of disorders Uses bulleted succinct text and highly templated chapters for quick comprehension of essential information at the point of care Includes an eBook that allows you access to everything in the print version as well as additional images text and references with the ability to search customize your content make notes and highlights and have content read aloud additional digital ancillary content may publish up to 6 weeks following the publication date Diagnostic Imaging Head and Neck 5th edition includes updated images as well as updates to existing text to incorporates the growing information on genomic characterization of head and neck cancers Updates related to the 5th edition WHO classification of head and neck tumors released in 2022 are included reflecting the improved characterization of sinonasal tract and skull

base tumors through distinctive genetic and molecular signatures Chapter updates are in place throughout the content set to reflect the improved understanding of the genetics and imaging of head and neck vascular malformations with associated implications for precision treatment     Acta oto-rhino-laryngologica Belgica ,1999     **Cancer Forum** ,2006     The Journal of Nuclear Medicine ,2009

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