

Fine-needle aspiration of triton tumor: morphology, immunohistochemistry, electron microscopy, and cell image analysis

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Affiliations

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Abstract

A single a case of malignant triton tumor, presented as a neck mass in a 34 year old female diagnosed solely by fine needle aspiration, is reported. The diagnosis was supported by immunohistochemical staining and electron microscopic examination that showed evidence of both schwannian and rhabdomyoblastic differentiation. Cell image analysis was also performed on the case and showed an aneuploid peak with a DNA index of 1.7. Diagnosing rare tumors with fine needle aspiration is feasible; particularly with the help of ancillary studies.

Electron Microscopy For The Fine Needle Aspiration Of Tumors

Mary K. Sidawy, Syed Z. Ali



Electron Microscopy For The Fine Needle Aspiration Of Tumors:

Electron Microscopy for the Fine Needle Aspiration of Tumors Guillermo Emilio Quinonez, 1997 This handbook is a concise but comprehensive review of the neoplastic cell and tumor stroma for beginners in ultrastructural tumor diagnosis as applied to fine needle aspiration biopsies a new area for the application of electron microscopy It focuses on the visual recognition of features that are critical for tumor diagnosis The material is aimed at cytotechnologists pathology residents and pathologists unfamiliar with the technique and at medical students who can benefit from this atlas for quick supplementary information The book can also be used for continuing education activities After mastering this introductory material readers will be ready to begin the systematic study of ultrastructural tumor findings in fine needle aspiration biopsies *Orell, Orell and Sterrett's Fine Needle Aspiration Cytology E-Book* Svante R Orell, Gregory F. Sterrett, 2011-08-09 Orell Sterrett's Fine Needle Aspiration Cytology 5e provides you with a logical and systematic approach to the acquisition interpretation and diagnosis of FNA biopsy samples It is an ideal resource for all those requiring an authoritative and systematic review of the cytological findings in those malignant and benign lesions likely to be the target of FNA The book is lavishly illustrated with high quality colour images that demonstrate the cytological features as well as their relevant immunohistochemical and molecular findings Organized into anatomical regions each chapter is consistently organized into two parts the first deals with clinical and technical aspects followed by a systematic presentation of cytological findings This is your perfect practical bench resource for daily reference in the laboratory Provides practical tips and advice on how to avoid pitfalls and ensure accurate diagnoses Over 1 200 colour illustrations capture each entity's cellular morphological and immunohistochemical appearance Chapters have been updated and revised and a brand new one on cytological findings in infectious diseases added Both MGG and Pap smears illustrated in parallel as well as the corresponding histology to help provide side by side analysis Access the full text online and download images via Expert Consult Brand new chapter on cytological findings in infectious diseases Inclusion of immuno profiles and other relevant ancillary tests New illustrations New contributing authors Available online via Expert Consult **Atlas of Fine Needle Aspiration Cytology** Henryk A. Domanski, 2018-10-29 This updated and expanded second edition covers all of the diagnostic areas where FNAC is used today Each chapter follows a similar practical format diagnostic criteria with an emphasis of differential diagnoses diagnostic problems and pitfalls and relevant findings of ancillary methods Authoritative discussions will reflect accepted international viewpoints The interaction of the cytologist or cytopathologist with other specialists radiologists oncologists and surgeons is emphasized and illustrated throughout With contributions from experts in the field internationally and many new colour images Atlas of Fine Needle Aspiration Cytology Second Edition provides a comprehensive and up to date guide to FNAC for pathologists cytopathologists radiologists oncologists surgeons and others involved in the diagnosis and treatment of patients with suspicious mass lesions **Diagnostic Histopathology of Tumors**

Christopher D. M. Fletcher, 2007-03-29 Up to date and comprehensive the New Edition of Fletcher's renowned Diagnostic Histopathology of Tumors provides you with today's best knowledge on the pathologic diagnosis of human tumors. This 3rd edition incorporates all of the latest ancillary diagnostic and prognostic techniques so you can effectively evaluate and confidently interpret suspected tumor specimens. Plus more than 50 internationally recognized authorities and over 3 100 full color illustrations provide you with an up to date account of tumor morphology, the application of modern diagnostic techniques including molecular genetics and key aspects of differential diagnosis. Features over 3 000 high quality full color illustrations providing visual guidance to each tumor or tumor like entity. Presents correlations of gross appearances to microscopic findings for virtually every tumor type. Includes detailed discussions of differential diagnosis. Provides full coverage of all the latest classification schemes. Incorporates the latest advances in molecular biology and immunohistochemistry throughout. Presents an increased focus on everyday diagnostic problems you are likely to encounter. Features extensively rewritten gynecology and hematology chapters. Uses additional diagnostic flow charts and summary tables for easy retrieval of information. Includes more differential diagnosis tables for better recognition and evaluation of similar looking entities.

FNA Cytology of Soft Tissue and Bone Tumors H. A. Domanski, C. S. Walther, 2017-07-27 Fine needle aspiration cytology (FNAC) has been commonly used to follow up on previously treated sarcomas or to confirm soft tissue and bone metastases of carcinomas, melanomas or lymphomas. Its role as the first line approach in the diagnosis of primary soft tissue and bone tumors has increased due to progress of less invasive diagnostic procedures and the growing availability of diagnostic ancillary tests. This comprehensive and richly illustrated volume presents cytomorphology of all common neoplastic soft tissue and bone lesions but also of rare tumors largely described in case reports. Key points for cytological features, differential diagnosis and the use of ancillary tests are discussed and illustrated in order to facilitate the diagnostic work up in FNA samples. The volume is organized on the basis of the most recent WHO classification used in surgical pathology in order to provide a practical guide for modern cytologic diagnosis of surgical soft tissue and bone pathology. It is aimed mainly at surgical pathologists and cytopathologists but also at orthopedic surgeons and clinical oncologists.

Handbook of Practical Fine Needle Aspiration and Small Tissue Biopsies Fan Lin, Haiyan Liu, Jun Zhang, 2017-09-01 This handbook has been designed to provide a comprehensive and state of the art review and update of the major issues and challenges specific to fine needle aspiration (FNA) and small tissue core biopsies which have emerged as primary modalities in establishing a definitive cancer diagnosis in the field of anatomic pathology both in the U S and worldwide. Making an accurate diagnosis from a limited sample can be quite challenging yet crucial to patient care. The handbook using the most current and evidence based resources will:

1. emphasize a triple test: clinical, radiologic and cytologic/histologic correlation
2. stress the importance of cellblock preparation
3. small tissue core biopsy in modern cytopathology
4. include over 100 diagnostic immunostaining panels/tables to address the utility and importance of ancillary studies

incorporate relevant FISH and molecular tests into each chapter and 5 summarize the pearls and pitfalls of FNA small tissue biopsies at the beginning of each chapter The book also includes highly practical presentations of typical case scenarios seen in an anatomic pathology laboratory These are in the form of case presentations with step by step expert analysis Sample cases include common but challenging situations such as work up of a tumor of unknown origin evaluation of well differentiated malignant tumors vs benign reactive lesions identification of newly described tumor entities and implementation of best practice in immunohistochemistry and molecular testing in a difficult case Handbook of Practical Fine Needle Aspiration and Small Tissue Biopsies is written by recognized experts in their fields and provides a unique and valuable resource in the field of cytopathology both for those currently in training and for those already in clinical practice at various skill levels It represents a new comprehensive yet concise resource on these timely and critical topics v FNA Cytology of Ophthalmic Tumors C. V. Biscotti,A. D. Singh,2011-10-19 This comprehensive and well illustrated volume in the outstanding Monographs in Clinical Cytology series examines the spectrum of ophthalmic cytology including uveal retinal and orbital tumors It includes historical perspectives current indications surgical techniques and practical aspects of the cytological preparation of ophthalmic fine needle aspiration samples The importance of a close collaboration between cytologists and ophthalmologists in the field of ophthalmic tumors is emphasized The monograph presents high quality illustrations accompanied by very informative legends that reveal the details of the clinical cytological correlation evident in many of the cases managed by the authors It presents a complete spectrum of ophthalmic tumors covering uveal melanoma uveal metastasis intraocular lymphoma and orbital tumors Recent innovations in the instrumentation and use of digital cytology in fine needle aspiration biopsy are also reviewed This publication is an excellent reference text on rare tumors It is highly recommended reading for ophthalmic pathologists cytologists and oncologists **New Frontiers in Cytology** Klaus Goerttler,Georg Feichter,Siegfried Witte,2012-12-06 Diagnostic cytology has recently enjoyed increased attention and significance in modern research Essential information on latest developments in methods and applications in cytology is provided by this book Chapters review methodological advances such as in cancer detection and explore potential relationships to molecular biology Also discussed are viral infection fundamentals of quantitative methods and the revolutionary role of immunocytochemistry in diagnostic cell typing The new insights offered by transmission and scanning electron microscopy into cellular structure and function are discussed and the connections between cytology and histology are highlighted Epidemiology in connection with cytology is incorporated in special reports The current developments described here will become routine methods of the cytology of tomorrow **Cytopathology of Bone and Soft Tissue Tumors** Lester J. Layfield,2002 Cytopathology of Bone and Soft Tissue Tumors provides the practicing pathologist with a single reference for describing and illustrating the cytologic features of musculoskeletal tumors Using fine needle aspiration FNA the approach of this work is encyclopedic both relatively common and relatively rare lesions are depicted It is expected

that Cytopathology of Bone and Soft Tissue Tumors will serve to widen the usage of the FNA technique which can substantially decrease patient morbidity lessen the complications that arise due to other biopsy techniques and shorten the time as well as expense required for diagnosis The chapters on soft tissue lesions are organized by direction of differentiation Each chapter documents both the common and uncommon lesions within the tissue group Summaries of clinical findings are given along with the histopathologic and cytologic description Key diagnostic points in tabular form and a discussion of the differential diagnosis complete each section The section on skeletal lesions is organized along predominant cell type seen in smears This approach facilitates grouping of lesions into diagnostically useful categories allowing the pathologist faced with an unfamiliar lesion to rapidly access the portion of the text most useful for differential diagnosis Within each chapter the organization is similar to that within the soft tissue chapters The introduction discusses technical concerns limitations of the technique and a diagnostic approach in both tabular and narrative form Information on grading of soft tissue sarcomas completes the introduction

Modern Methods in Analytical Morphology J. Gu,G.W. Hacker,2012-12-06 While advances in modern medicine largely parallel our understanding of morphology discoveries in morphology are propelled by developments of new tools and means to visualize and measure tissue elements The invention of dissecting light fluorescence and electron microscopes together with advances in labeling and staining techniques are among the stepping stones of morphological progress Today we are in an exciting new era when classical morphology is being combined with developments from other disciplines The combination of morphology and immunology resulted in immunocytochemistry morphology and molecular biology led to in situ hybridization and in situ PCR Adding computer science to morphology gave birth to image analysis Combining laser technology and the microscope evolved into confocal microscope For more than a decade modern morphology has continued to develop by merging with other disciplines at a rate that is still gathering momentum providing exciting and dynamic new frontiers for other biological fields Modern Methods in Analytical Morphology based largely on the First International Workshop on Modern Methods in Analytical Histochemistry is an updated review of the current trends in the field It covers an extensive array of new technical developments in major disciplines of modern morphology The authors are not only leaders in their fields but also have extensive hands on experience with bench work Their chapters are written in a comprehensive manner including discussion of both theoretical considerations and practical applications to give the readers a broad view of the topics covered

Orell and Sterrett's Fine Needle Aspiration Cytology, 5e Svante R. Orell,Gregory F. Sterrett,2011-06-10 Orell Sterrett s Fine Needle Aspiration Cytology 5e provides you with a logical and systematic approach to the acquisition interpretation and diagnosis of FNA biopsy samples It is an ideal resource for all those requiring an authoritative and systematic review of the cytological findings in those malignant and benign lesions likely to be the target of FNA The book is lavishly illustrated with high quality colour images that demonstrate the cytological features as well as their relevant immunohistochemical and molecular findings Organized into anatomical regions each chapter is consistently

organized into two parts the first deals with clinical and technical aspects followed by a systematic presentation of cytological findings This is your perfect practical bench resource for daily reference in the laboratory Provides practical tips and advice on how to avoid pitfalls and ensure accurate diagnoses Over 1 200 colour illustrations capture each entity s cellular morphological and immunohistochemical appearance Chapters have been up dated and revised and a brand new one on cytological findings in infectious diseases added Both MGG and Pap smears illustrated in parallel as well as the corresponding histology to help provide side by side analysis Access the full text online and download images via Expert Consult

Nongynecologic Cytopathology Peter Spieler,Matthias Rössle,2012-07-27 This manual for diagnostic cytologists offers detailed guidance on diagnostic problems likely to be encountered in everyday practice It encompasses exfoliative and aspiration cytology of all major nongynecologic body sites Each chapter opens with an algorithm that presents the reader with the relevant microscopic findings the most important additional findings and the differential diagnostic possibilities and problems in a clear and easily remembered form Another important feature is the wealth of high quality color photomicrographs which clearly document the visual appearances of the most important lesions and highlight the differential diagnostic difficulties The accompanying text contains helpful general remarks and presents further relevant information on diagnostics differential diagnostic procedures and auxiliary methods Besides established cytologists and pathologists cytopathologists in training and cytotechnologists will find this book to be a valuable aid

Cytohistology with CD-ROM Prabodh Gupta,Zubair Baloch,2011-02-17 This book represents the essentials of diagnostic cytopathology Clinical research has confirmed the efficacy of the cytologic method of disease diagnosis and it is now considered the definitive method for identifying a wide array of malignancies Cytohistology Essentials and Basic Concepts comprehensively covers all the morphologic variations and landmarks in cells that can potentially signal disease Morphologies in cancer are the primary focus but all potential changes in infectious and inflammatory disorders are also covered in detail There is a separate section on molecular and other ancillary diagnostic techniques in cytopathology Conceptual drawings presented in a pansystemic approach and incorporating state of the art techniques show basic cytomorphologic features essential for interpretation of cytopathology specimens Diagnostic pitfalls and challenging intellectual nuggets are also presented A supplementary CD with images in a downloadable format is included

Comprehensive Cytopathology E-Book Marluce Bibbo,David Wilbur,2008-09-18 This best selling book provides you with a comprehensive guide to the diagnostic applications of exfoliative and aspiration cytology The book takes a systemic approach and covers the recognized normal and abnormal cytological findings encountered in a particular organ Appropriate histopathological correlations and a consideration of the possible differential diagnosis accompany the cytological findings The book is lavishly illustrated making it the perfect practical resource for daily reference in the laboratory Provides an accessible guide to diagnostic investigation and screening Includes a summary of major diagnostic criteria and discusses the pitfalls and limitations of cytology Utilizes a consistent

chapter structure to make finding the answers you need quick and easy Provides updates to crucial chapters to keep you on top of the latest diagnosis and techniques Incorporates differential diagnosis tables for easy comparison contrast of diagnoses Offers more than 1800 full color images depicting a full range of normal and abnormal findings Discusses new concepts on molecular basis of neoplasia Explores the role of cytogenetics in cancer development *Atlas of Fine Needle Aspiration Cytology* Lester J Layfield, 2014-03-20 Practical guide to fine needle aspiration cytology for trainees and pathologists Covers all anatomical regions with complete chapter dedicated to its use for paediatric tumours Written by a recognised expert from the University of Missouri Cytopathology of Soft Tissue and Bone Tumors S. I. Hajdu, E. O. Hajdu, 1989-06-21

Acta Cytologica, 2003 Includes abstracts of papers of various symposia **Koss' Diagnostic Cytology and Its Histopathologic Bases** Leopold G. Koss, Myron R. Melamed, 2006 The most influential and frequently cited pathology classic is now in its Fifth Edition with thoroughly revised chapters and over 3 000 brand new full color illustrations This two volume work provides comprehensive current information on the principles and techniques of cytopathology and the cytologic evaluation of benign and malignant disorders at every anatomic site This edition provides greatly expanded coverage of the interpretation of aspirated cell samples Innovations in the practice of cytopathology and data on molecular biology and cytogenetics have been incorporated into the organ system chapters This edition also has a greater focus on avoiding diagnostic errors A bound in image bank DVD is included in this edition Interventional Radiology Olga B. Adler, 1990

Fine Needle Aspiration Cytology Mary K. Sidawy, Syed Z. Ali, 2007-01-01 Expansively illustrated this volume in the Foundations in Diagnostic Pathology series encompasses aspiration cytopathology of all major body sites Experts in the field provide you with a clear concise and practical diagnostic approach to the challenges you face every day Color photomicrographs provide a visual image of individual lesions to make learning quick and easy The consistent convenient format provides quick at a glance reference making it an excellent resource not only for the pathologists in training but for those in practice as well Uses highly templated chapters to make key information easy to find Incorporates carefully selected high quality full color images Covers aspiration cytopathology of all major body sites Includes contributions from the world's preeminent cytopathologists The Foundations in Diagnostic Pathology Series answers the call for fresh affordable and easy to use guidance Each region specific volume provides all of the most essential information on the pathologic entities encountered in practice Series Editor John R Goldblum MD FACP FASCP FACG

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