

A Case Report of Disseminated Tuberculosis With an Atypical Presentation

Ratul Sarkar^a, Pratyay Hasan^{b, *}, Ahmedul Kabir^c

Abstract

Here we report a 45-year-old male who presented to us with fever, loss of appetite, and painless bilateral testicular swellings. His routine chest X-ray revealed reticulo-nodular opacities in both lung fields. Ultra-sonogram of both testes revealed multiple fairly large space occupying lesions in both testes and epididymides. Initially thought to be a case of testicular tumor with lung metastases, the case later proved to be a case of chronic disseminated tuberculosis (TB), following fine needle aspiration and cytology of both testicular swellings and lung lesions. His sputum smear also revealed acid fast bacilli (2+). Interestingly, this patient had fever, loss of appetite, and cough 2 years ago, but remained well without specific anti-tubercular therapy in the intervening period. This case illustrates that common diseases can present in confusing and atypical ways. This cloaked appearance can misguide us to make a wrong diagnosis. Especially in a TB endemic zone such as ours, TB should not be excluded from the list of differential diagnoses, and should be actively searched.

Keywords: Disseminated tuberculosis; Diagnostic dilemma; Atypical presentation

Introduction

The infamous reputation "captain of all these men of death", originally ascribed by Sir William Osler to pneumonia [1], has later been awarded to tuberculosis (TB) by many including clinicians to historians or even novelists [2-4]. TB has been a scourge of the humankind from time immemorial. Till date, no other disease in history matches the sheer magnitude of the misery inflicted by TB on the human race in terms of morbidity and mortality [5]. TB is caused by bacteria of the

Mycobacterium tuberculosis complex and usually affects the lungs, although other organs are involved in up to one-third of cases [6]. In order of frequency, the extra-pulmonary sites most commonly involved in TB are the lymph nodes, pleura, genitourinary tract, bones and joints, meninges, peritoneum and pericardium [6]. Disseminated TB refers to concurrent involvement of at least two non-contiguous organs of the body or involvement of the blood and bone marrow by TB process [7]. Disseminated TB is still uncommon, and unlike the rapid disseminating form, well known as miliary TB, chronic metastasizing form is less frequently recognized [8]. In healthy individuals, the dissemination is contained by a prompt immune response, particularly cell-mediated immunity and interferon gamma pathways, limiting the infection [9]. Therefore, clinical disseminated disease following primary or reactivation of established latent TB is more often in relatively or absolutely compromised hosts such as infants, patients with acquired immune deficiency syndrome (AIDS) or patients with latent infection placed on a tumor necrosis factor alpha blocker, compromising the regular immune surveillance [10-13]. Rarely, the dissemination occurs in healthy individuals with no known predisposing condition challenging our clinical suspicion to consider it as a differential diagnosis, and especially with very non-specific and atypical features, as is the case presented here.

Case Report

A 45-year-old Bengali male, day laborer, hailing from Satar-gul, Badga, Dhaka, presented to us with fever, loss of appetite and bilateral testicular swelling for 3 months. Fever was low-grade, intermittent associated with evening rise of temperature, night sweats, and chills and rigor. The highest recorded temperature was 100 °F. He had also lost his appetite during this course of time. Three months back, he had noticed swelling in his both testes, which were gradually increasing in size. The swellings were painless. On query, he mentioned occasional cough, but no sputum production and hemoptysis. He had no chest pain, respiratory distress, urinary problem, altered bowel habit, abdominal distension, abdominal pain, or joint pain, but he felt unusually fatigued, and at the time of admission, he was fatigued to such extent that he could not perform any heavy work. He had lost 15 kg of weight over the last 2 years. In fact, 2 years ago, he had suffered from fever, cough with purulent sputum production (but no hemoptysis), chest pain and loss

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Remicade Disseminated Tuberculosis Case Report Pathology

James W. Patterson



Remicade Disseminated Tuberculosis Case Report Pathology:

Clinical Focus Series: Tuberculosis Violeta V Mihailovic Vucinic, Dragana M Jovanovic, 2019-09-30 Part of the Clinical Focus series this book is a comprehensive guide to the diagnosis and treatment of tuberculosis The new volume is highly illustrated with tables and images and written by an internationally recognised editor and author team *Practical Hepatic Pathology: A Diagnostic Approach E-Book* Romil Saxena, 2017-02-02 A volume in the popular Pattern Recognition Series Practical Hepatic Pathology A Diagnostic Approach features completely updated and reorganized content resulting in a truly practical guide to understanding liver pathology Dr Romil Saxena presents interpretation of liver biopsies according to a pattern based approach that begins with recognition of the predominant histological pattern of injury followed by identification of secondary features and appropriate work up that lead you away from pitfalls to the best diagnosis Unique visual index at the beginning of the book references the exact chapter and specific page needed for in depth diagnostic guidance Superb high quality full color images illustrate pathognomonic features and common variations Features comprehensive information on major adult and childhood liver diseases hepatic neoplasms and pre neoplastic nodules including clinical features laboratory tests imaging findings and differential diagnosis Coverage of the clinical aspects of liver transplantation allows you to understand the pathology and practice of this procedure New section on Evolving Concepts keeps you abreast of new paradigms in liver diseases such as reversal of fibrosis heterogeneity of cirrhosis and biphenotypic primary liver cell carcinoma Reorganized Table of Contents is even more intuitive Expert Consult eBook version is included with purchase This enhanced eBook experience allows you to search all of the text figures images and references from the book across digital platforms **Surgical Pathology of the Gastrointestinal System: Bacterial, Fungal, Viral, and Parasitic Infections** Laura W. Lamps, 2012-02-22 Surgical Pathology of the Gastrointestinal System Bacterial Fungal Viral and Parasitic Infections provides a unique diagnostic reference text for the pathologic diagnosis of infectious diseases of the gastrointestinal tract Written for the practicing surgical pathologist this text combines the superior illustrations of an atlas with carefully written prose to create a useful diagnostic companion The text is divided into four sections covering bacterial fungal viral and parasitic infections of the gastrointestinal tract The descriptive sections of each chapter are organized into short paragraphs for easy reference and include the use of tables to compare and contrast organisms and summarize differential diagnoses Each chapter is extensively illustrated and contains prose discussions of diagnostic features differential diagnoses brief clinical descriptions and ancillary tests that help confirm the diagnosis i e immunohistochemistry special histochemical stains and molecular diagnostic techniques Surgical Pathology of the Gastrointestinal System Bacterial Fungal Viral and Parasitic Infections provides pertinent clinical diagnostic and epidemiologic information that will be valuable to the practicing surgical pathologist This volume will also help surgical pathologists gain familiarity with other contributory laboratory tests that are available to help confirm diagnosis *Diagnostic Pathology: Gastrointestinal E-Book* Joel K

Greenon,2015-07-24 Part of the highly regarded Diagnostic Pathology series this updated volume by Joel K Greenon MD is a visually stunning easy to use reference covering all aspects of gastrointestinal pathology Outstanding images including gross pathology a wide range of pathology stains and detailed medical illustrations make this an invaluable diagnostic aid for every practicing pathologist resident or fellow Time saving reference features include bulleted text a variety of test data tables key facts in each chapter annotated images and an extensive index Packed with even more high resolution images than the previous edition more than 2 500 in all depicting virtually any GI specimen you re likely to see Thoroughly updated content including new information on drug induced GI diseases such as olmesartan enteropathy molecular testing in GI cancers familial cancer syndromes in the GI tract and the molecular biology of GI tract tumors as it relates to precision medicine and targeted therapy *Index Medicus* ,2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Weedon's Skin Pathology E-Book* James W. Patterson,2024-09-18 Selected for 2025 Doody s Core Titles in Dermatology Cutaneous biopsies and excisions constitute the most frequently performed procedures in surgical pathology yet they present some of the most difficult diagnostic challenges Through five authoritative editions Weedon s Skin Pathology has earned outstanding reviews and accolades from practicing and trainee dermatopathologists general pathologists and dermatologists worldwide The 6th Edition continues this tradition of excellence helping you accurately and efficiently sign out complex skin cases in everyday practice while also keeping you up to date with recent advances in the field Dr James W Patterson s single author approach continues to provide clarity and consistency from cover to cover resulting in what has been described as the best reference text available in dermatopathology in the world Pathology Provides comprehensive coverage of the full spectrum of dermatopathological entities both inflammatory and neoplastic highlighted by more than 1 800 color photomicrographs that illustrate the full range of pathologic appearances and help identify each diagnostic entity Helps you arrive at the most accurate diagnoses possible by demonstrating what is seen through the microscope and identifying the characteristic features of the lesion for established disorders unusual and rare disease entities and incompletely defined entities Includes new information on molecular diagnostics throughout including FISH fluorescence in situ hybridization techniques plus new developments in molecular biology and molecular techniques targeted personalized medicine and immunohistochemistry Contains more tables for quick reference new figures that demonstrate key differential diagnostic points and discussions of new entities as well as thorough content updates in every section Includes practical advice on diagnostic pitfalls and how to avoid them to help minimize reporting errors and diagnostic clues to assist both experienced and novice practitioners in formulating an accurate diagnosis Identifies both important articles and more rare and unusual reports with remarkably authoritative comprehensive current and relevant reference lists over 35 000 for each entity **Handbook of Child and Adolescent Tuberculosis** Jeffrey R. Starke,Peter R. Donald,2016-01-14 Tuberculosis remains one of the most prevalent deadly and underdiagnosed infectious diseases in the world In children this burden is

doubly problematic because of the disease's unique clinical characteristics and its need for special public health and diagnostic techniques. After decades of relative inattention to these factors, childhood tuberculosis has now grown into an important area of competency for child health programs in low burden areas including the United States. The Handbook of Child and Adolescent Tuberculosis is a state of the art clinical reference written and edited by the world's leading experts in childhood tuberculosis. It offers clinicians in any geography or setting practical evidence based advice on all aspects of the disease including its natural history, epidemiology, presentation, treatment and prevention, all in a format that synthesizes literature with the clinical experience of the leading authorities in this challenging field. As the need for childhood tuberculosis services in child health programs grows, this handbook provides a new benchmark for practitioners and trainees in pediatrics, infectious disease, pulmonary medicine and public health to better understand this persisting and difficult disease.

Dermatopathology of Tropical Diseases Omar P. Sangüeza, Martin Sangüeza, Francisco Bravo, 2017-03-15. The majority of tropical diseases manifest themselves through the skin and while many can be diagnosed on physical examination, dermatopathologic results are often of critical importance to the diagnostic process. However, general dermatopathology texts lack images of diseases endemic in the developing world; they also lack clinical correlates linking the pathology to the clinical entity. This is a problem because greater movement between countries where tropical diseases are prevalent and Europe, North America and other developed nations makes it essential for physicians to be able to recognize, diagnose and treat these diseases. *Dermatopathology of Tropical Diseases* covers the pathology and clinical correlations of the most important tropical diseases. Each entity is described using brief text that summarises its epidemiology, pathogenesis and clinical features. The diagnostic process is then described and illustrated using both clinical and histopathologic images. Wherever possible, different examples are shown of the same disease in order to illustrate as wide a variety of presentations as possible. Extensively illustrated with almost 600 photographs, *Dermatopathology of Tropical Diseases* is an invaluable resource for dermatopathologists, pathologists and dermatologists based in the developing world as well as those in developed countries who see tropical diseases in returned travellers and immigrant populations. Key features: Includes chapters on all major tropical diseases with both clinical and histopathological images provided for each entity, allowing the reader to correlate pathological characteristics with the clinical presentation of each disease. Wherever possible, different examples of the same disease are shown to illustrate the variety of presentations. Lavishly illustrated with almost 600 colour photographs.

Clinical Tuberculosis Peter D. O. Davies, Stephen B. Gordon, Geriant Davies, 2014-04-30. Completely updated and revised. *Clinical Tuberculosis* continues to provide the TB practitioner, whether in public health, laboratory science or clinical practice, with a synoptic and definitive account of the latest methods of diagnosis, treatment and control of this challenging and debilitating disease. New in the Fifth Edition: Gamma interferon based

Feigin and Cherry's Textbook of Pediatric Infectious Diseases - E-Book James Cherry, Sheldon L. Kaplan, Gail J. Demmler-Harrison, William Steinbach, Peter J. Hotez, John

V Williams, 2024-08-29 Selected for 2025 Doody's Core Titles in Pediatrics Widely considered the premier text in pediatric infectious diseases Feigin and Cherry's Textbook of Pediatric Infectious Diseases 9th Edition provides authoritative up to date coverage of this rapidly changing field Extensively revised by Drs James Cherry Sheldon L Kaplan Gail J Demmler Harrison William J Steinbach Peter J Hotez and new editor John V Williams this two volume reference delivers the information you need on epidemiology public health preventive medicine clinical manifestations diagnosis treatment and much more It serves as a reliable everyday resource for practicing ID specialists and an invaluable reference for medical students residents and fellows in ID pediatricians and internists and others who work with neonates children and adolescents or in public health Discusses infectious diseases according to organ systems that may be affected as well as individually by microorganisms placing emphasis on clinical manifestations that may be related to the organism causing the disease Provides detailed information regarding the best means to establish a diagnosis explicit recommendations for therapy and the most appropriate uses of diagnostic imaging Includes expanded information on Q fever antibiotic resistance and antibiotic agents human coronaviruses pox viruses and infections in the compromised host and contains new COVID 19 content across numerous chapters Features a new chapter on antimicrobial stewardship and new coverage of antivirals for pox viruses Reflects today's more aggressive infectious and antibiotic resistant organisms as well as emerging and re emerging infectious diseases Contains hundreds of full color images many are new including clinical photos radiographic images drawings charts and graphs

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