

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 atypical 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

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McKee**

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 **Diagnostic Pathology: Gastrointestinal E-Book** Joel K Greenson, 2015-07-24 Part of the highly regarded Diagnostic Pathology series this updated volume by Joel K Greenson 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 **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

Weedon's Skin Pathology E-Book James W. Patterson, 2019-11-19 Encyclopedic and authoritative Weedon's Skin Pathology has earned outstanding reviews and accolades from practicing and trainee dermatopathologists general pathologists and dermatologists worldwide The 5th Edition continues the tradition of excellence helping you accurately and efficiently sign out challenging skin cases in everyday practice while also keeping you up to date with recent advances in the field This single authored text provides comprehensive coverage of the full spectrum of dermatopathological entities both inflammatory and neoplastic highlighted by more than 1 200 large sized high quality illustrations 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 updated and expanded information on molecular diagnostics including FISH fluorescence in situ hybridization techniques plus new developments in molecular biology and molecular techniques targeted personalized medicine and immunohistochemistry Brings you fully up to date with carefully reviewed and streamlined introductory and basic science information and information on new entities since the previous edition Presents even more key information in quick reference formats such as tables and boxes that organize diseases into groups synthesize diagnostic criteria and list differential diagnoses 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 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

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 Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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

Oral and Maxillofacial Pathology - E-Book Brad W. Neville,Douglas D. Damm,Carl M. Allen,Angela C. Chi,2023-05-24 NEW An ebook version is included with print purchase The ebook allows you to access all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud Plus it includes prescriptions for oral diseases differential diagnosis of clinical cases and practice questions Updated content on the latest breakthroughs in oral squamous cell carcinoma treatment HPV and molecular pathology addresses some of today s leading topics in oral pathology research

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The Microbiome in Rheumatic Diseases and Infection Gaafar Ragab,T. Prescott Atkinson,Matthew L. Stoll,2018-06-19 This book discusses the role of the microbiome in rheumatic diseases and details its implications for patient treatment Recently with

technological advances there has been significant research into the microbiome This has enabled us to more profoundly understand its role in our immune system maturation as well as the role played by microorganisms in autoimmunity and the deeply related rheumatic diseases This book comprehensively explains the emerging microbiome research through the interrelationships of biomedical sciences including immunology microbiology bioinformatics and with special emphasis the clinical aspect of rheumatology It examines the interplay between infectious organisms and major autoimmune diseases including rheumatoid arthritis psoriatic arthritis juvenile arthritis systemic lupus erythematosus and vasculitis and explains how to apply that knowledge to diagnostic techniques and treatment decisions The international team of expert authors provides insight into current therapies and future interventions specifically targeting the microbiota and explores the impact of our deeper understanding on enhancing personalized medicine The Microbiome in Rheumatic Diseases and Infection is an essential resource for rheumatologists pediatricians internists microbiologists and critical care providers caring for children and adults with rheumatic diseases

Weedon's Skin Pathology E-Book David Weedon, 2009-10-30 Thoroughly revised and up dated this comprehensive authoritative reference will help both the experienced and novice practitioner diagnose skin diseases and disorders more accurately and effectively A superb full colour art programme illustrates the salient pathological features of both neoplastic and non neoplastic conditions and will help the reader easily interpret key clinical and diagnostic points This single authored text incorporates the wealth of Dr Weedon s own personal observations and experience in his approach to the diagnosis and interpretation of skin biopsies and is full of useful diagnostic clues and pearls This remarkable book is an indispensable resource for all those involved in the identification and evaluation of skin disorders Encyclopedic reference work that discusses established disorders unusual and rare disease entities as well as incompletely defined entities The book is comprehensive enough to meet the requirements of trainee and practicing dermatopathologists or pathologists when reporting on the histopathology of skin specimens A single authored text that presents an internationally recognized master diagnostician s personal philosophy and skill in dealing with the diagnosis of skin biopsies Provides a uniformity clarity and internal consistency of approach and style that other books cannot match Over 1 200 large sized high quality illustrations Will facilitate an accurate diagnosis by accurately reproducing in the book what is seen through the microscope and thereby help identify the characteristic features of the lesion demonstrated For many of the features listed there will be practical advice on pitfalls and how to avoid them drawn from Dr Weedon s unrivalled personal experience Will facilitate the daily practice of dermatopathology and save the practitioner a lot of time and money Tables and boxes that organize diseases into groups synthesize diagnostic criteria and list differential diagnoses makes the book user friendly and the information easy to access Remarkably authoritative comprehensive current and relevant reference list for each entity There are over 35 000 references in the text This degree of inclusivity facilitates the identification of both key articles and more rare and unusual reports References only available online in this single volume version New sections on treatment that highlight

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Pathology of the GI Tract, Liver, Biliary Tract and Pancreas E-Book Robert D. Odze, John R. Goldblum, 2022-06-21 Unparalleled in scope and content Surgical Pathology of the GI Tract Liver Biliary Tract and Pancreas provides the most relevant and up to date clinical etiologic molecular and therapeutic management information for surgical pathologists in training and in practice The fully revised 4th Edition of this award winning title offers a wealth of information in this fast changing field including recent advances in molecular biology and immunohistochemistry in a clearly written well structured manner that is easy to read and navigate This one stop reference for the entire gastrointestinal system enables you to improve turnaround time when diagnosing a specimen and to clearly report on the prognosis and therapeutic management options to surgical and medical colleagues Covers the latest developments in molecular technologies and immunohistochemical markers to provide useful diagnostic and prognostic information and inform therapeutic decisions Provides all the necessary tools to make a comprehensive diagnostic workup including data from ancillary techniques and molecular findings whenever appropriate Incorporates more than 3000 high quality color illustrations to help you recognize and diagnose any tissue sample under the microscope Reviews next generation sequencing NGS to help identify targetable mutations in gastrointestinal tract tumors and provide more accurate classification and precision therapies Features extensive tables graphs and flowcharts to help you effectively grasp complex topics and streamline your decision making Helps you avoid diagnostic errors with practical advice on pitfalls in differential diagnosis Incorporates the latest WHO guidelines throughout Winner of the 2015 BMA Medical Book Awards First Prize Award in Pathology Enhanced eBook version included with purchase Your enhanced eBook allows you to access an image bank as well as all of the text figures and references from the book on a variety of devices *Pathology of the Skin E-Book* J. Eduardo Calonje, Thomas Brenn, Alexander J Lazar, Phillip H. McKee, 2011-09-09 McKee's Pathology of the Skin is the most complete in depth resource on dermatopathology covering etiology pathogenesis disease mechanisms and recent genetic molecular and basic science data Drs J Eduardo Calonje Thomas Brenn Alexander Lazar and Phillip McKee present new illustrations updated chapters and coverage of new entities such as lymphomas cutaneous tissue tumors diseases of the nail and more in this extensively revised fourth edition This new edition is an absolute must for practicing dermatopathologists and general pathologists who sign out skin biopsies It has over 5 000 images and new chapters on the pathology of HIV AIDS conjunctival tumors sentinel lymph node biopsies laboratory techniques in dermatopathology and a section on the pathology of salivary gland tumors Also the chapters on disorders of keratinization and diseases of the nails have been completely updated With access to the full text

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Irwin and Rippe's Intensive Care Medicine Richard S. Irwin, James M. Rippe, 2008 Thoroughly updated for its Sixth Edition this classic reference remains an unsurpassed source of definitive practical guidance on adult patient care in the ICU It provides encyclopedic multidisciplinary coverage of both medical and surgical intensive care and includes a how to atlas of procedures and a new section on noninvasive monitoring Each Sixth Edition chapter for the first time identifies Advances in Management based on randomized controlled clinical trials The cardiology section has been completely rewritten to reflect advances in management of acute coronary syndromes Also included are extensive updates on management of COPD diabetes oncologic emergencies and overdoses and poisonings A companion Website will provide instant access to the complete and fully searchable online text

Cumulated Index Medicus, 2000

The MGH Review of Critical Care Medicine Sheri Berg, Edward Bittner, 2013-11-14 The field of critical care medicine is evolving quickly To prepare for certification and refresh their knowledge today's practitioners need a concise multidisciplinary review that focuses on the core areas of critical care Ideal for critical care fellows critical care nurses residents and practitioners who spend time in the ICU The MGH Review of Critical Care Medicine employs brief chapters on focused topics to help readers review core areas and test their knowledge

Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book John E. Bennett, Raphael Dolin, Martin J. Blaser, 2019-08-08 For four decades physicians and other healthcare providers have trusted Mandell Douglas and Bennett's Principles and Practice of Infectious Diseases to provide expert guidance on the diagnosis and treatment of these complex disorders The 9th Edition continues the tradition of excellence with newly expanded chapters increased global coverage and regular updates to keep you at the forefront of this vitally important field Meticulously updated by Drs John E Bennett Raphael Dolin and Martin J Blaser this comprehensive two volume masterwork puts the latest information on challenging infectious diseases at your fingertips Provides more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than any other infectious disease resource Features an increased focus on

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Table of Contents Remicade Disseminated Tuberculosis Case Report Pathology

1. Understanding the eBook Remicade Disseminated Tuberculosis Case Report Pathology
 - The Rise of Digital Reading Remicade Disseminated Tuberculosis Case Report Pathology
 - Advantages of eBooks Over Traditional Books
2. Identifying Remicade Disseminated Tuberculosis Case Report Pathology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Remicade Disseminated Tuberculosis Case Report Pathology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Remicade Disseminated Tuberculosis Case Report Pathology
 - Personalized Recommendations
 - Remicade Disseminated Tuberculosis Case Report Pathology User Reviews and Ratings
 - Remicade Disseminated Tuberculosis Case Report Pathology and Bestseller Lists

5. Accessing Remicade Disseminated Tuberculosis Case Report Pathology Free and Paid eBooks
 - Remicade Disseminated Tuberculosis Case Report Pathology Public Domain eBooks
 - Remicade Disseminated Tuberculosis Case Report Pathology eBook Subscription Services
 - Remicade Disseminated Tuberculosis Case Report Pathology Budget-Friendly Options
6. Navigating Remicade Disseminated Tuberculosis Case Report Pathology eBook Formats
 - ePub, PDF, MOBI, and More
 - Remicade Disseminated Tuberculosis Case Report Pathology Compatibility with Devices
 - Remicade Disseminated Tuberculosis Case Report Pathology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Remicade Disseminated Tuberculosis Case Report Pathology
 - Highlighting and Note-Taking Remicade Disseminated Tuberculosis Case Report Pathology
 - Interactive Elements Remicade Disseminated Tuberculosis Case Report Pathology
8. Staying Engaged with Remicade Disseminated Tuberculosis Case Report Pathology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Remicade Disseminated Tuberculosis Case Report Pathology
9. Balancing eBooks and Physical Books Remicade Disseminated Tuberculosis Case Report Pathology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Remicade Disseminated Tuberculosis Case Report Pathology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Remicade Disseminated Tuberculosis Case Report Pathology
 - Setting Reading Goals Remicade Disseminated Tuberculosis Case Report Pathology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Remicade Disseminated Tuberculosis Case Report Pathology
 - Fact-Checking eBook Content of Remicade Disseminated Tuberculosis Case Report Pathology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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