

CASE REPORT

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Branch facial nerve trauma after superficial temporal artery biopsy: a case report

Richard A. Rison

Abstract

Introduction: Giant cell arteritis is an emergency requiring prompt diagnosis and treatment. Superficial temporal artery biopsy is the gold diagnostic standard. Complications are few and infrequent; however, facial nerve injury has been reported, leaving an untoward cosmetic outcome. This case report is to the best of our knowledge only the fourth one presented in the available literature so far regarding facial nerve injury from superficial temporal artery biopsy.

Case presentation: A 73-year-old Caucasian woman presented for neurological evaluation regarding eyebrow and facial asymmetry after a superficial temporal artery biopsy for presumptive giant cell arteritis-induced cephalalgia.

Conclusion: Damage to branches of the facial nerve may occur after superficial temporal artery biopsy, resulting in eyebrow droop. Although an uncommon and sparsely reported complication, all clinicians of various specialties involved in the care of these patients should be aware of this given the gravity of giant cell arteritis and the widespread use of temporal artery biopsy.

Introduction

Giant cell arteritis (GCA) is a neurologic emergency requiring prompt diagnosis and treatment. For years, the gold standard diagnostic test has been superficial temporal artery biopsy (STAB). This procedure is generally well tolerated with infrequent complications. Facial nerve injury is a known but uncommon complication, with few reported cases.

Case presentation

A 73-year-old Caucasian woman with a one-year history of headaches and left temporal tenderness developed an elevated erythrocyte sedimentation rate. She was started on prednisone and a few days later underwent a left-sided STAB as an outpatient. In the recovery room, she noted difficulty closing her left eye secondary to weakness. She also noted numbness along the left portion of her face. There were no complaints of blurry or double vision, difficulty swallowing or slurred speech. She did not complain of any weakness in her arms or legs. She

did not have vertigo, tinnitus, diminished hearing or lapses of consciousness. She was told at the time that she may have had an adverse effect from the local anesthetic and was discharged home with eye drops.

The patient's medical history was remarkable for hypertension, hypercholesterolemia, a past transient ischemic attack, fibromyalgia and gout. She was taking levothyroxine, simvastatin, duloxetine, lisinopril, hydrochlorothiazide, clopidogrel and prednisone.

The patient presented for neurologic evaluation six weeks after the STAB. General physical examination revealed a blood pressure in her left arm (sitting position) of 110/70 mm Hg with a regular pulse. Her height was 5'3", and she weighed 152 lb. There were no carotid bruits or cardiac murmurs, and her lungs were clear to auscultation. She had a well-healed scar over the region where the left STAB had been done. Cranial nerve examination was remarkable for significant limitation of left eye closure (her eyelid could not adequately cover her sclera beneath her pupil). There was also diminished upward frowning of her left brow with minimal mild and slow weakness seen in the left lower portion of her face, producing mild asymmetry. The right facial muscles were all completely intact. No facial synkinesis was witnessed. Facial sensation was intact in a bilateral

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Temporal Artery Biopsy Report

JR Anderson



Temporal Artery Biopsy Report:

Ischemic Optic Neuropathies Sohan Singh Hayreh, 2011-08-28 Ischemic optic neuropathy often referred to as a stroke of the optic nerve is one of the major causes of visual impairment or loss of vision Yet it is a highly controversial and confusing subject because of the general lack of in depth scientific understanding of the subject In this book the leading authority in the field describes in detail the current knowledge about the different forms of the often devastating disease Insights into the underlying pathogenesis and peculiar clinical features are given leading the reader to the most appropriate way of management This information will help any physician dealing with patients who suffer from sudden loss of vision

Vascular Emergencies Robert L. Rogers, Thomas Scalea, 2013-04-04 Of all of the clinical entities within the discipline of medicine vascular emergencies are the most time sensitive and the patients with these conditions are amongst the most severely ill Emergency care providers encounter these entities on a day to day basis in the emergency department Vascular emergencies by their very nature are limb and life threatening and emergency physicians and other providers have to be expert in the care and disposition of this group of patients Vascular Emergencies focuses on the acute presentation in the emergency department Each chapter includes a discussion on diagnosis and treatment when resources are limited a list of critical actions pearls and pitfalls and definitive care Written by emergency physicians with unique understanding of the pertinent issues in the emergency department this book provides practical advice for all acute care providers caring for patients with vascular emergencies

Polymyalgia Rheumatica and Giant Cell Arteritis Bhaskar Dasgupta, Christian Dejaco, 2016-03-03 Polymyalgia rheumatica PMR and giant cell arteritis GCA are related conditions occurring almost exclusively in older people Polymyalgia rheumatica is considered to be the rheumatic disease that is subject to the widest variations of clinical practice partially due to the considerable uncertainty related to diagnosis and outcomes Giant cell arteritis an inflammatory form of vasculitis may present with a broad spectrum of clinical manifestations and can be complicated by acute ischemic events the most serious of which is permanent blindness Early recognition and adequate treatment of the condition is thus necessary to prevent patients loss of independence and to maintain their quality of life Part of the Oxford Rheumatology Library series Polymyalgia Rheumatica and Giant Cell Arteritis provides quick and practically relevant information on several aspects of the diseases particularly on diagnosis and management with the ultimate aim of improving the patient s care Chapters highlight current concepts of pathogenesis recent advances of diagnostic and therapeutic approaches and the ongoing research into the identification of new biomarkers and corticosteroid sparing medications Each chapter is complemented with key message boxes highlighting the most relevant information for clinical practice This concise but comprehensive reference is particularly suited for rheumatologists general practitioners and other professionals caring for patients with PMR and GCA

Optic Nerve Disorders Jane W. Chan, 2008-04-17 This is the first practical reference book focusing only on common optic nerve disorders The author discusses diagnosis pathophysiology

management and prognosis of complex optic nerve disorders The book is organized by optic nerve diagnoses commonly encountered in a neuro ophthalmologic practice It is written in a clear concise style for quick easy reference in the clinic Each chapter is formatted in a similar manner Neurologists and ophthalmologists will find this book useful when they need a practical reference for incorporating optic nerve evaluation in their clinical practice *Updates on Giant Cell Arteritis: Pathogenesis, Diagnosis and Treatment, volume II* Andreas P. Diamantopoulos ,Stavros Chrysidis,2024-12-06 Giant cell arteritis GCA or temporal arteritis symptoms include a new headache around the temples as well as the front top and back of the skull Other common symptoms include fatigue weight loss an unexplained fever and can include pains in the jaw throat and tongue double vision and eventually blindness Blindness resulting from GCA can occur suddenly however early treatment can prevent this While there is no simple diagnosis for GCA ultrasound has recently emerged as a leading diagnostic resource for early detection of this severe condition High dose corticosteroid treatment is still the mainstream of treatment but IL6 inhibition has provided new opportunities to these patients and has also challenged classic treatment algorithms

Cumulated Index Medicus ,1983 *Aviation Medical Reports* United States. Office of Aviation Medicine,1981

Ocular Therapeutics Handbook Bruce E. Onofrey,Leonid Skorin,Nicky R. Holdeman,2005 This compact portable and user friendly clinical manual is geared to the needs of all health care professionals who treat ocular disorders Organized and designed for rapid reference the book is packed with information on the entire spectrum of ocular disorders and their treatment This Second Edition is thoroughly updated greatly expanded in scope and includes ICD 9 codes The book begins with a Quick Reference Section where clinicians can find vital facts about ocular microbiology laboratory tests ocular side effects of systemic medications and pharmaceutical agents used in eye care The second section contains succinct well organized monographs on over 150 disorders

Updates on giant cell arteritis: Pathogenesis, diagnosis and treatment Andreas P. Diamantopoulos,Stavros Chrysidis,2023-04-27 *Primary Care - E-Book* Terry Mahan

Buttaro,Patricia Polgar-Bailey,Joanne Sandberg-Cook,Karen L. Dick,Justin B. Montgomery,2024-03-02 Selected for Doody s Core Titles 2024 in Advanced Practice There s no better preparation for Nurse Practitioners and other adult primary care practitioners Buttaro s Primary Care Interprofessional Collaborative Practice 7th Edition provides the concise yet thorough information that you need in today s fast paced interprofessional collaborative environment With authorship reflecting both academic and clinical expertise this comprehensive evidence based primary care text reference shows you how to deliver effective truly interdisciplinary health care It covers every major adult disorder seen in the outpatient office setting and features a unique interprofessional collaborative approach with referral and Red Flag highlights and more New to this edition are chapters on health equity public health preparedness endocannabinoids and self care Comprehensive evidence based accurate and current content provides a complete foundation in the primary care of adults for NP students including students in Doctor of Nursing Practice DNP programs and reflects the latest research and national and international

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The Neurologic Involvement in Systemic Autoimmune Diseases, 2004-11-05 Systemic autoimmune diseases can affect both the central and peripheral nervous systems in a myriad of ways and through a heterogeneous number of mechanisms leading to many different clinical manifestations As a result neurological complications of these disorders can result in significant morbidity and mortality Advances in the diagnosis laboratory investigations and management of these conditions has placed an increasing burden on the practicing clinician to correctly assess and treat these patients This volume of the Handbook of the Systemic Autoimmune Diseases will help the clinician and researcher better understand the current concepts of nervous system involvement from systemic autoimmune disorders recognize current approaches to diagnosis and treatment current controversies and areas that need significant research efforts It is believed that providing this approach in a single volume will facilitate its use as a frequent resource for all those caring for or investigating these patients and their diseases Each chapter follows a consistent outline to provide the reader with important and useful information in an easy to navigate manner and is also liberally referenced to provide more primary source material for further consideration The standardized approach to each chapter will allow the reader to be able to compare and contrast more efficiently the neurological complications of the autoimmune diseases discussed

Handbook of Neurosurgery Mark S. Greenberg, 2010 The seventh edition of Dr Greenbergs classic text covers the breadth of neurosurgery and its allied specialties and provides the latest information on anatomy and physiology differential diagnosis and currently accepted principles of clinical management

Comprehensive Review of Headache Medicine Morris Levin, 2025 This comprehensive volume like its first edition is authored by experienced researchers and clinicians who address every aspect of headache medicine anatomy pathophysiology imaging diagnosis and management Special populations and important conditions are covered separately and current treatments and techniques are thoroughly described This text serves as an excellent review of the field for interested physicians dentists and advanced practice providers It also provides a basis for study for those aiming for specialty board certification recertification

Clinical Emergency Medicine Casebook Joel T. Levis, Gus M. Garmel, 2009-04-06 This case based approach to emergency medicine is a unique and underutilized teaching strategy written for emergency room residents and nurses

Evidence-Based Emergency Care Jesse M. Pines, Worth W. Everett, 2011-08-26 This useful handbook provides a concise compilation of the evidence supporting diagnostic testing and

clinical decision rules in emergency care Clinical decision rules are now widely recognised as best practice for the ordering of diagnostic tests in the emergency department Aimed at all physicians working with emergency and acute patients the book begins with an overview of how to evaluate a diagnostic test using an evidence based approach followed by an explanation of the clinical decision rules and the methods of assessing the strength and applicability of the clinical prediction rule These introductory chapters are followed by sections covering the following clinical areas Traumatic Injuries Cardiology Infectious Disease Surgical and Abdominal Complaints Urology Neurology Ophthalmology Hematology Rheumatology Pulmonology For each test and clinical decision rule the most current and best available studies in the literature are discussed and applied to emergency department and acute care patients in addressing the question at hand followed by an overall recommendation on how to use the test or rule in the clinical context Evidence Based Emergency Care is an accessible and extremely useful reference for physicians at all levels to use in applying an evidence based approach to ordering and interpreting tests in an acute care environment

Manual of Oculoplastic Surgery Mark R. Levine, 2010 Each procedure includes a review of the surgical anatomy step by step instructions and accompanying illustrations over 500 throughout the text

Practical Neurology José Biller, 2012-10-22 This book is a practical concise alternative to existing neurology textbooks The outline format and standard chapter template offers the reader immediate comprehensive information The author is a well respected educator who has a talent for making neurologic information accessible and understandable Significant changes have been made to the therapeutics management portion of the book as well as specific diagnosis related chapters have been updated More tables and figures allow the reader to find the information quickly This book sits between a handbook and a textbook and distinguishes itself in its presentation of material in a problem oriented format 35 chapters discuss how to approach the patient with a variety of disorders the second half of the book discusses treatment options

The Physician Assistant Student's Guide to the Clinical Year: Emergency Medicine Dipali Yeh, Erin Marthedal, 2019-09-27 A lifesaver not just for PA students but for faculty and administrators trying our best to prepare them Perfect for students to read and use on rotation James Van Rhee MS PA C DFAAPA Program Director Yale Physician Assistant Online Program The first pocket size resource to guide PA students through their emergency medicine rotation Prepare for and thrive during your clinical rotations with the quick access pocket guide series The Physician Assistant Student's Guide to the Clinical Year The Emergency Medicine edition of this 7 volume series discounted when purchased as a full set delineates the exact duties required in this specialty Written by experienced PA educators this guide details the clinical approach to common presentations such as chest pain altered mental status and headache It also provides a systems based approach to more than 40 of the most frequently encountered disease entities you will see in this rotation including traumatic injury cerebrovascular accident and acute coronary syndrome Distinguished by brief bulleted content with handy tables and figures the reference offers all pertinent laboratory and imaging studies needed to confirm a diagnosis with medication and management

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