Resident & Fellow Rounds

August 3, 2021, Issue

Clinical Reasoning: A 47-Year-Old With Headache, Vertigo, and Double Vision
The importance of rapid, accurate diagnosis is highlighted in this case of granulomatosis with polyangiitis (GPA, formerly Wegener granulomatosis), a condition frequently overlooked in initial testing. The study demonstrates key factors in moving beyond seemingly obvious but incorrect conclusions and distinguishing between similar conditions.
Page e535

Pearls & Oy-sters: Primary Pineal Melanoma With Leptomeningeal Carcinomatosis
This unusual case of a patient presenting with progressive bilateral hearing loss and binocular diplopia, who was later diagnosed with Parinaud syndrome, is of value to residents and fellows as both a refresher on this clinically important condition and as a clear example of a rare presentation of pineal melanoma.
Page 248

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Teaching Video NeuroImage: Improvement in Motor Development After Start of Levodopa in Tyrosine Hydroxylase Deficiency
This example of successful early detection of tyrosine hydroxylase deficiency, combined with the description of the interesting result of levodopa as an effective treatment for the infantile form of the condition, is of interest to residents and fellows studying movement disorders.
Page e540

Teaching Video NeuroImage: One Bedside Test, 2 Clinical Signs: One Vestibular, the Other Ocular Motor
Vestibulo-ocular reflex deficits are not uncommon to encounter in neurologic practice. The patient in this report presents with a unique combination of deficits that teach the importance of bedside testing including head-impulse testing, caloric testing, and pursuit.
Page e541

August 10, 2021, Issue

Teaching NeuroImage: Increasing SPECTations for Ictal SPECT in Epilepsy Surgical Evaluation
This case concerning a young man with drug-resistant epilepsy highlights information that may help to increase understanding of the epileptogenic zone, to improve outcomes for patients with seizures, and to reduce their risk of sudden unexpected death in epilepsy.
Page e647

Clinical Reasoning: A 49-Year-Old Woman With Progressive Numbness and Gait Instability
The initial diagnosis of neurosarcomiosis in this case was revised after reevaluation favored a paraneoplastic cause. This case demonstrates the importance of reassessing the differential diagnosis when a patient does not respond to treatment as expected.
Page 342

Global & Community Health: Implementation of and Patient Satisfaction With the First Neurologic Telemedicine Program in Mexico During COVID-19
The teleneurology program described in this study demonstrates the ingenuity and resilience of the residents who developed it, and the study itself may serve as a useful model for expanding the use of teleneurology in other countries.
Page 293

Pearls & Oy-sters: Rapidly Reversible Dementia: Vitamin B₁₂ Deficiency in a 29-Year-Old Woman
Vitamin B₁₂ deficiency is highly prevalent and has many manifestations, one of which is illustrated in this case describing a woman presenting with cognitive impairment. The study highlights the importance of being aware of B₁₂ deficiency indicators to achieve early diagnosis and effective treatment.
Page e643

Teaching Video NeuroImage: Resolution of Ptosis After Forceful Eye Closure: Bedside Diagnosis of Myasthenia Gravis
The forceful eye closure test is a useful bedside test that can be administered to test for myasthenia gravis—this interesting report and the accompanying video portray it clearly, making this case a helpful example for residents and fellows.
Page e649

August 17, 2021, Issue

Clinical Reasoning: A 49-Year-Old Woman With Progressive Numbness and Gait Instability
The initial diagnosis of neurosarcomiosis in this case was revised after reevaluation favored a paraneoplastic cause. This case demonstrates the importance of reassessing the differential diagnosis when a patient does not respond to treatment as expected.
Page 342
Teaching NeuroImage: Human Polymerase Gamma Gene (POLG) Disorder Presenting as Refractory Status Epilepticus
The results of the comprehensive testing described in this study revealed possible involvement of 2 gene variants in the diagnosis of this patient’s condition. Human polymerase gamma gene disorder was diagnosed in this patient who presented with refractory status epilepticus, an important reminder to trainees.
Page e747

Teaching Video NeuroImage: Shedding Light on Sunflower Syndrome
Although sunflower syndrome has been well described in the literature, this particular case is a classic and clearly presented example of this phenomenon and is of interest to residents and fellows specializing in epilepsy and related conditions.
Page e749

Training in Neurology: Implementation and Evaluation of an Objective Structured Clinical-Examination Tool for Neurology Postgraduate Trainees in Lusaka, Zambia
The smartphone-based tool described in this study is an excellent example of the possibilities for leveraging technology to meet educational needs in resource-limited settings and may be of value for patients and clinicians who find themselves in similar circumstances.
Page e750

August 24, 2021, Issue

Clinical Reasoning: A 59-Year-Old Woman Presenting With Diplopia, Dysarthria, Right-Sided Weakness, and Encephalopathy
This complex case highlights the importance of careful differential diagnosis and the need for course correction in some circumstances. Both may be needed to achieve the best possible outcome with the fewest complications for patients with a condition that has many possible pathologic causes.
Page e859

Microlearning is gaining interest as an educational tool in medical education. The study illustrates both the benefits and challenges of implementing microlearning by using online learning tools for continuing professional development in neurology.
Page 393

Teaching Video NeuroImage: Abnormal Movements due to Brainstem Release Phenomenon
This study presents a rare condition seen in a patient with spinal muscular atrophy who experienced abnormal involuntary myoclonic movements after cardiac arrest. This case emphasizes the importance of distinguishing between epileptic seizures and abnormal movements, which can closely mimic one another.
Page e865

Teaching Video NeuroImage: Unique Ipsilateral Manual Automatism in Temporal Lobe Epilepsy: Conducting the Orchestra
The unique cases of choreic limb movement automatism illustrated in this study, in which the authors compare the patients’ involuntary movements with gestures made by an orchestra conductor, are of interest to residents and fellows who may not have encountered this phenomenon in clinical practice.
Page e867
Clinical Reasoning: A 42-Year-Old Woman With Mysterious Monocytic Meningitis

In complex, rare cases such as the one described in this study, the road to definitive diagnosis can be long and challenging. This paper’s educational value lies in its description of the typical diagnostic process, which often begins with a focus on infectious causes, as in this case.

Pears & Oy-sters: Angioplasty and Stenting as New Treatment Method for Cough Headache With Stenotic Internal Jugular Vein: Case Report With 12-Month Follow-up

This study presents a classic example of refining the treatment and diagnostic process when treatment based on initial diagnosis proves ineffective. The researchers combined traditional neurologic headache approaches with interventional neuroradiology to arrive at a diagnosis and determine effective treatment.

Teaching NeuroImage: Symmetric Deep Cerebellar White Matter T2 and Susceptibility-Weighted Imaging Hypointense Lesions in a Case of Cerebrotendinous Xanthomatosis

The unique images featured in this study are of value to trainees as examples of the presentation of cerebrotendinous xanthomatosis, a rare genetic condition that they are unlikely to encounter in clinical practice.

Teaching Video NeuroImage: “Weighing” in on an Unusual Tremor

This study describes an unusual presentation of tremor that manifested only when the patient performed the specific task of carrying a briefcase. The video that accompanies the paper is of interest to residents and fellows because of its depiction of this rare condition known as “weight-holding tremor” or “shopping bag tremor.”

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