

Section I

CNS Demyelinating Disease (Cases 1-21)

Case 1 A Woman With Subacute Painful Vision Loss

Jiraporn Jitprapaikulsan, MD, M. Tariq Bhatti, MD, Eric R. Eggenberger, DO, and Marie D. Acierno, MD

Case 2 Rapidly Progressive Numbness and Weakness After Soft-Tissue Abscess

Elia Sechi, MD, and Dean M. Wingerchuk, MD

Case 3 Weakness With Neck Flexion

Brian G. Weinshenker, MD

Case 4 New-Onset Right-Sided Numbness and Double Vision

W. Oliver Tobin, MB, BCh, BAO, PhD

Case 5 Progressive Left Lower Extremity Weakness and Thoracic Spinal Cord Lesion

B. Mark Keegan, MD

Case 6 Progressive Spasticity With a Single Magnetic Resonance Imaging Lesion

Samantha A. Banks, MD, and Eoin P. Flanagan, MB, BCh

Case 7 Fluctuating Vision Loss, Seizures, and Left Parieto-Occipital Mass

Alicja Kalinowska-Lyszczarz, MD, PhD, W. Oliver Tobin, MB, BCh, BAO, PhD, Yong Guo, MD, PhD, and Claudia F. Lucchinetti, MD

Case 8 Diffuse Pain and Abnormal Brain MRI Findings

Andrew McKeon, MB, BCh, MD

Case 9 Lesions Found by Chance

Dean M. Wingerchuk, MD

Case 10 Encephalopathy and Quadriparesis After an Upper Respiratory Tract Infection

A. Sebastian Lopez Chiriboga, MD

Case 11 Severe Monocular Vision Loss Followed by Gait Difficulty

Brian G. Weinshenker, MD

Case 12 Multiple Sclerosis and Cognitive Impairment

Cristina Valencia-Sanchez, MD, PhD, and Jonathan L. Carter, MD

Case 13 New-Onset Gait Difficulty With Kappa Free Light Chains in Cerebrospinal Fluid

Maria Alice V. Willrich, PhD, and Ruba S. Saadeh

Case 14 A Girl With Back Pain, Paresthesias, and Painful Vision Loss

Cecilia Zivelonghi, MD, and Andrew McKeon, MB, BCh, MD

Case 15 A Septuagenarian With Progressive Hemiparesis

Roman Kassa, MD, and B. Mark Keegan, MD

Case 16 Recurrent Demyelinating Episodes

I. Vanessa Marin Collazo, MD

Case 17 Breakthrough Disease While on Multiple Sclerosis Immunomodulatory Therapy

Jonathan L. Carter, MD

Case 18 Highly Active Multiple Sclerosis

Roman Kassa, MD, and W. Oliver Tobin, MB, BCh, BAO, PhD

Case 19 Progressive Gait Difficulties

I. Vanessa Marin Collazo, MD

Case 20 Progressive Cerebellar Ataxia After Natalizumab Treatment

Michel Toledano, MD

Case 21 Weakness and Dysarthria After Radiosurgery

Andrew McKeon, MB, ChB, MD

Section II

Autoimmune Neurologic Disorders (Cases 22-52)

Case 22 Fatigue, Blurry Vision, and Swollen Optic Nerves

Marie D. Acierno, MD, M. Tariq Bhatti, MD, John J. Chen, MD, PhD, and Eric R. Eggenberger, DO

Case 23 Progressive, Symmetrical, Painless Visual Loss in an Elderly Woman

Eric R. Eggenberger, DO, Marie D. Acierno, MD, M. Tariq Bhatti, MD, and John J. Chen, MD, PhD

Case 24 Personality Changes, Cognitive Decline, and Jerking Movements

A. Sebastian Lopez Chiriboga, MD

Case 25 Rapidly Progressive Memory Loss, Mood Change, Mutism, and Abnormal

Movements

Shailee S. Shah, MD, and Marie F. Grill, MD

Case 26 Behavioral and Cognitive Changes Followed by Coma

Anastasia Zekeridou, MD, PhD

Case 27 Episodic Hemiparesis, Cognitive Decline, and Seizures in a Woman With Pernicious Anemia

Cristina Valencia-Sanchez, MD, PhD, and Andrew McKeon, MB, BCh, MD

Case 28 Rapidly Progressive Dementia and Thyroid Antibodies

Amy C. Kunchok, MBBS, MMED, and Eoin P. Flanagan, MB, BCh

Case 29 Goosebumps and Memory Loss

Jeffrey W. Britton, MD, Bhavya Narapureddy, MBBS, and Divyanshu Dubey, MBBS

Case 30 A Patient With Headache and Progressive Tremor

Anastasia Zekeridou, MD

Case 31 A Man With Flulike Symptoms and Hemorrhagic Brain Lesions

Michel Toledano, MD

Case 32 Hearing Loss, Imbalance, and Diplopia in a 44-Year-Old Man

Michelle F. Devine, MD, Divyanshu Dubey, MBBS, and Sean J. Pittock, MD

Case 33 Chorea, Ataxia, and Disturbed Sleep

John C. Feemster, and Erik K. St. Louis, MD, MS

Case 34 Rapidly Progressive Gait and Coordination Difficulties

Andrew McKeon, MB, BCh, MD

Case 35 Dancelike Movements in a Patient With a History of Rash

Andrew McKeon, MB, BCh, MD

Case 36 Body Spasms in a Woman With Thyroid Disease

Andrew McKeon, MB, BCh, MD

Case 37 Stiffness, Spasms, and Frequent Falls in a 41-Year-Old Man

Michelle Devine, MD, and A. Sebastian Lopez Chiriboga, MD

Case 38 Rapid-Onset Weakness and Numbness in a Patient With Systemic Lupus Erythematosus

Florianne C. Ernste, MD

Case 39 Progressive Quadriparesis and Cancer

Elia Sechi, MD, and Eoin P. Flanagan, MB, BCh

Case 40 Progressive Numbness, Burning Pain, Imbalance, and Dryness

Shahar Shelly, MD, and Divyanshu Dubey, MBBS

Case 41 Ascending Painful Paresthesias, Progressive Ataxia, and Bilateral Foot Drop

Rocio Vazquez Do Campo, MD, and Divyanshu Dubey, MBBS

Case 42 Painless, Symmetric, Ascending Weakness and Sensory Loss

Christopher J. Klein, MD

Case 43 Difficult-to-Treat Polyradiculoneuropathy

Marcus V. R. Pinto, MD, MS, and P. James B. Dyck, MD

Case 44 Autoimmune Peripheral Nervous System Hyperexcitability

Christopher J. Klein, MD

Case 45 Orthostatism, Constipation, and Early Satiety

Kamal Shouman, MD, and Eduardo E. Benarroch, MD

Case 46 Constipation and Syncope

Michelle F. Devine, MD, and Sean J. Pittock, MD

Case 47 Bulbar-Predominant Weakness

Jennifer A. Tracy, MD, and Vanda A. Lennon, MD, PhD

Case 48 Difficulty Climbing the Stairs

Anastasia Zekeridou, MD, PhD, and Vanda A. Lennon, MD, PhD

Case 49 Rapidly Progressive Proximal Weakness

Teerin Liewluck, MD, and Margherita Milone, MD, PhD

Case 50 Progressive Weakness and Rash

Margherita Milone, MD, PhD, and Teerin Liewluck, MD

Case 51 "Restlessness" After Cancer Diagnosis and Treatment

Anastasia Zekeridou, MD, PhD

Case 52 Sudden Onset of Diplopia and a Skeletal Muscle Antibody, *John R. Mills, PhD*

Section III

Other Inflammatory CNS Disorders and Neuroimmunologic Mimics (Cases 53-83)

Case 53 Diplopia, Orbital Pain, and Vision Loss in a Middle-Aged Woman

Lauren M. Webb, and Eoin P. Flanagan, MB, BCh

Case 54 A Young Man With Visual Field Loss, Decreased Hearing, and Confusion

M. Tariq Bhatti, MD, Eric R. Eggenberger, DO, Marie D. Acierno, MD, and John J. Chen, MD, PhD

Case 55 A Woman With Progressive Gait Difficulty and White Matter Abnormalities

Adrian Budhram, MD, and Ralitza H. Gavriloza, MD

Case 56 Progressive Asymmetrical Limb Impairment and Cognitive Decline With

Leukoencephalopathy

B. Mark Keegan, MD

Case 57 A Woman With Fever, Confusion, and Seizures

Michel Toledano, MD

Case 58 Encephalopathy With Alternating Hemispheric MRI Abnormalities

Andrew McKeon, MB, BCh, MD

Case 59 Rapid-Onset Hemibody Sensory Loss, Incoordination, and Muscle Jerking

Andrew McKeon, MB, BCh, MD, and Nicholas L. Zalewski, MD

Case 60 A History of Sarcoidosis and a New Brain Lesion

Andrew McKeon, MB, BCh, MD, and Julie E. Hammack, MD

Case 61 Headache and Hemiparesis in Middle Age

Catalina Sanchez Alvarez, MD, and Kenneth J. Warrington, MD

Case 62 Subacute Cognitive Decline in an 86-Year-Old Woman With Prior Lobar

Intracerebral Hemorrhage

Stephen W. English Jr, MD, MBA, and James P. Klaas, MD

Case 63 A 75-Year-Old Man With 5 Days of Progressive Gait Difficulties and Confusion

Julie E. Hammack, MD

Case 64 Night Sweats and Paraparesis

David N. Abarbanel, MD, and Ivan D. Carabenciov, MD

Case 65 A Woman With Headaches and a Tumefactive Brain Lesion

Andrew McKeon, MB, BCh, MD

Case 66 Behavioral Change, Seizures, and Temporal Lobe Lesion

Stuart J. McCarter, MD, and Andrew McKeon, MB, BCh, MD

Case 67 A Young Woman With Vessel Dissection and Brainstem Lesions

Burcu Zeydan, MD, and Orhun H. Kantarci, MD

Case 68 Headache, Uveitis, and Leptomeningeal Enhancement

Orhun H. Kantarci, MD

Case 69 Weakness and Punctate Enhancement

W. Oliver Tobin, MB, BCh, BAO, PhD

Case 70 Bilateral Paresthesias in Crohn Disease

Amy C. Kunchok, MBBS, and Andrew McKeon, MB, BCh, MD

Case 71 Seizures and Enhancing Brain Lesions

Josephe Archie Honorat, MD, PhD, and Andrew McKeon, MB, BCh, MD

Case 72 A Man With Recurrent Headache and Focal Neurologic Deficits

Jaclyn R. Duvall, MD, and Jerry W. Swanson, MD, MHPE

Case 73 Headache, Radicular Pain, and Enhancing Lesions

W. Oliver Tobin, MB, BCh, BAO, PhD

Case 74 Seizures 3 Months After Endarterectomy

Andrew McKeon, MB, BCh, MD, and Robert D. Brown Jr, MD, MPH

Case 75 Progressive Bilateral Arm Pain, Gait Disturbance, Constipation, and Urinary

Retention

Ivan D. Carabenciov, MD, and Michael W. Ruff, MD

Case 76 A Woman With Subacute Numbness of the Trunk, Arms, and Legs

Eoin P. Flanagan, MB, BCh

Case 77 A Septuagenarian With Progressive Lower Extremity Weakness and Pain

Nicholas L. Zalewski, MD

Case 78 Acute Quadriplegia in a Smoker

Nicholas L. Zalewski, MD

Case 79 A 25-Year-Old Man With Recurrent Back Pain and Rapid-Onset Paraplegia

Nicholas L. Zalewski, MD

Case 80 Progressive Myelopathy After Neck Pain

Eoin P. Flanagan, MB, BCh

Case 81 Progressive Imbalance and Visual Impairment in a Patient With Diabetes

Neeraj Kumar, MD

Case 82 Progressive Myelopathy After Spine Surgery

Andrew McKeon, MB, BCh, MD, and Nicholas L. Zalewski, MD

Case 83 Altered Mental Status During the COVID-19 Pandemic

Sara Mariotto, MD, Silvia Bozzetti, Maria Elena De Rui, Fulvia Mazzaferri, Andrew McKeon, MB, BCh, MD, and Sergio Ferrari

Section IV

Questions and Answers

Section I: Questions, Answers, Suggested Reading

Section II: Questions, Answers, Suggested Reading

Section III: Questions, Answers, Suggested Reading