Common Pitfalls in Multiple Sclerosis and CNS Demyelinating Diseases

Case-Based Learning
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Contents

Preface ix

1 Pitfalls in identifying the classical clinical features of MS 1
Case 1: A woman with numbness and prior visual loss: possible MS 6
Case 2: A woman with diffuse pain and abnormal brain MRI scan. Is it MS? 8
Case 3: A patient with numbness of the feet rapidly involving the hands. Where is the lesion in the nervous system? 9
Case 4: A patient with a diagnosis of MS presents with new left arm numbness. Is it due to the patient’s MS? 11
Case 5: A young woman with sudden deafness and abnormal brain MRI. Is it MS? 12
Case 6: An elderly patient presenting with gait impairment for possible Parkinson’s disease 13

2 Pitfalls in correctly assessing the clinical course of MS 15
Case 7: A woman with headaches and typical brain demyelinating lesions on MRI. Is it relapsing-remitting MS or radiologically isolated syndrome? 16
Case 8: A patient with fatigue and a history of remote neurological symptoms, but without significant neurological debility. Could this be benign MS? 17
Case 9: MS with occasional symptomatic worsening. Is it relapsing-remitting or a progressive clinical course of MS? 18
Case 10: A patient with a history of resolved gait impairment. Is it secondary progressive MS? 19
Case 11: A woman with vertigo, diplopia and head pain. Is it relapsing-remitting MS? 21

3 Pitfalls in recognizing uncommon MS clinical presentations 23
Case 12: Repetitive painful spasms of the left arm and leg. Is it multiple sclerosis? 23
Case 13: A man with treatment-resistant trigeminal neuralgia 24
Case 14: A man with recurrent spells of ataxia and dysarthria 25
Case 15: Recurrent encephalopathy in a patient with long standing MS 26
Case 16: A man with recurrent right lower extremity weakness fluctuating with neck movement 27
Case 17: A man with fluctuating, then progressive, visual impairment 28

4 Challenges in the therapeutic management of MS 30
Case 18: A young man with treatment-resistant MS who abuses tobacco 30
Case 19: A patient with continued relapses that is unresponsive to glatiramer acetate. Should she switch medications? 31
Case 20: An MS patient intolerant of injections with bradycardia. What MS medications should be considered? 33
Case 21: A woman with MS previously treated with natalizumab. Should natalizumab be reinitiated after progression on interferon therapy? 33
Case 22: Episodic symptomatic worsening in a patient with MS. Should highly aggressive immunomodulatory therapy be recommended? 34
Case 23: An MS patient considering pregnancy. When should medications be initiated or stopped? 35
Case 24: An MS patient with psoriasis on interferon beta 1a three times weekly with incomplete efficacy. Which alternative oral MS therapy should be used? 35
Case 25: A woman with MS is investigated for vascular abnormalities 36
Case 26: An MS patient with acute right lower extremity pain. Is it due to established MS? 37
Contents

5 Challenges in diagnosing demyelinating ocular disease 40
Case 27: A history of visual disturbance in a young woman. Is it due to MS? 40
Case 28: A patient with optic atrophy and abnormal brain MRI scan. Is it MS? Should immunomodulatory medications be used? 41
Case 29: Is it papillitis (optic neuritis) or papilledema? 42
Case 30: An elderly woman presenting with rapid and severe bilateral visual loss 43
Case 31: A young woman with headaches, optic nerve head edema and abnormal brain MRI 44
Case 32: A young woman with recurrent visual loss and recurrent optic nerve head edema 46
Case 33: A man with visual loss, optic nerve head edema and an abnormal chest x-ray 47
Case 34: A 56-year-old man with fatigue, muscle pain and recurrent episodes of visual loss 48

6 Pitfalls in diagnosing cerebral parenchymal disease 50
Case 35: A 44-year-old gentleman with an 8-year history of cognitive impairment and possible MS 50
Case 36: A woman with MS and severe memory loss 50
Case 37: A middle-aged man with progressive, treatment-resistant hemiparesis 52
Case 38: A man with progressive white matter disease and an “alien” limb 54
Case 39: A man with an abnormal brain MRI and a persistently enhancing cervical spine MRI lesion for possible MS 56
Case 40: A woman with breast cancer, obstructive hydrocephalus and corpus callosum abnormalities 57
Case 41: A woman with subacute psychiatric symptoms, mutism and involuntary orofacial and limb movements 58
Case 42: A young woman with repetitive brief episodes of hemiparesis and dysarthria and progressive brain MRI abnormalities 60
Case 43: A man with bladder incontinence, progressive gait impairment and brain white matter lesions 61

7 Pitfalls in diagnosing demyelinating cerebellar disease 64
Case 44: A middle-aged woman with a progressive right-then left-sided tremor 64
Case 45: A woman with progressive cerebellar ataxia and an isolated cerebellar lesion. Is it MS? 64
Case 46: A young gentleman with acute onset of severe ataxia 66
Case 47: An older gentleman with progressive gait ataxia and an abnormal brain MRI 67
Case 48: An older woman with progressive ataxia, urinary symptoms, an abnormal brain MRI and a family history of MS 68
Case 49: A woman with a history of lymphoma and Sjögren syndrome with progressive ataxia 68

8 Challenges in diagnosing demyelinating brainstem disease 71
Case 50: A woman with diplopia and transient right arm incoordination 71
Case 51: Progressive gait impairment in a woman on chronic anticoagulation therapy 72
Case 52: A young man with personality change, ataxia and progressive brain white matter changes 72
Case 53: A young man with rapidly progressive impairment and brainstem hemorrhage 73
Case 54: A man with facial tingling, ataxia and brainstem predominant perivascular enhancement on brain MRI 74
Case 55: A young woman with intractable vomiting 75
Case 56: A woman of Ashkenazi Jewish heritage with a progressive gait disorder and abnormal brain and spine MRI 76

9 Challenges in diagnosing spinal cord disease 79
Case 57: A patient with an abnormal brain MRI scan and cervical spine lesion. Is it MS? 79
Case 58: A woman with continued progressive gait impairment after successful cervical fusion surgery 80
Case 59: Progressive hemiparesis in a man with a single cervical spinal cord lesion. Could this be MS? 81
Case 60: A man with gait impairment after bronchitis. Is it transverse myelitis? 82

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Case 61: Acute myelopathy while undergoing shoulder surgery. Is it transverse myelitis? 83
Case 62: A woman with left-sided pain and inflammatory myelopathy 84
Case 63: A woman with progressive gait ataxia, myelopathy and peripheral neuropathy 85
Case 64: A man with a longitudinal spinal cord lesion and pain. Is it a spinal cord neoplasm? 86
Case 65: An elderly woman with progressive lower extremity weakness and longitudinal thoracic spinal cord abnormality 87

Index 90
Preface

This book is a case-based instructional that will assist the reader in evaluating patients with neurological presentations that may be due to central nervous system demyelination, particularly multiple sclerosis (MS), and distinguishing the presentation of MS from other competing neurological diagnoses. This book is of importance for a number of reasons. Some people have neurological symptoms and signs that are due to MS. It is critical to make a confident MS diagnosis, particularly given the new, expanding and broadening availability of therapies for relapsing forms of MS. Just as importantly, however, many people have neurological symptoms and signs that are not due to MS, and have an alternative neurological diagnosis or, in fact, no neurological diagnosis or disease. It remains just as critical to provide a diagnosis and therapies for “other” neurological diseases where available, or guide the patient away from potentially toxic therapies for a suspected MS that is not present.

The book is aimed at those with some degree of neurological education and experience; however, a highly structured approach to MS diagnosis, namely a three-step diagnostic process, is emphasized throughout to demonstrate how even complicated presentations may be “made simple” to ease the evaluation. Initial chapters explain this diagnostic process and how it is used to diagnose MS. Subsequent chapters proceed on an anatomical basis to evaluate MS presentations in that level of the central nervous system and MS-mimicking diseases that constitute alternative diagnoses. The chapters are presented in anatomical order to assist the reader if they come across a challenging case with a certain anatomical presentation by providing direct references to potential MS mimickers at different levels of the nervous system.

Diagnosing neurological diseases is easier when a structured diagnostic process is used and when prior experience has provided other examples where “pattern recognition” facilitates rapid identification of a certain disease. This book therefore provides a three-step process to help the reader diagnose MS in patients.

The cases themselves are selected to present decision-making points using the three-step process to assess how likely or unlikely the presentation represents MS. Key diagnostic and therapeutic tips are provided to highlight the main points regarding each case. Comprehensive and detailed discussions about the pathophysiology and treatment of MS and mimicking diseases are not emphasized and the reader is directed to further references that will provide a more exhaustive level of detail.

It is hoped that this book, with its highly clinically relevant cases and straightforward manner of assessing challenging presentations of MS and related diseases, will be an enjoyable and informative addition to standard textbooks of these conditions.