Hyperkinetic movement disorders comprise a range of diseases characterized by unwanted and uncontrollable, or poorly controllable, involuntary movements. The phenomenology of these disorders is quite variable encompassing chorea, tremor, dystonia, myoclonus, tics, other dyskinesias, jerks and shakes. Discerning the underlying condition can be very difficult given the range and variability of symptoms. But recognizing the phenomenology and understanding the pathophysiology are essential to ensure appropriate treatment. Hyperkinetic Movement Disorders provides a clinical pathway for effective diagnosis and management of these disorders. The stellar international cast of authors distils the evidence so you can apply it into your practice. The judicious use of diagnostic criteria algorithms rating scales management guidelines Provides a robust framework for clear patient management. Throughout the text, QR codes* provide smartphone access to case-study videos of hyperkinetic symptoms. Purchase includes an enhanced Wiley Desktop Edition.* This is an interactive
Hyperkinetic Movement Disorders provides you with the essential visual and practical tools you need to effectively diagnose and treat your patients. *Full instructions for using QR codes and for downloading your digital Wiley DeskTop Edition are inside the book.

Trusted as the leading text in the field, Parkinson's Disease and Movement Disorders, 6th Edition, brings you fully up to date with new developments in this rapidly-changing subspecialty. International experts provide thorough coverage of basic science and clear guidance for your day-to-day clinical challenges – from innovative medical and surgical treatments to new drug delivery systems and recent discoveries in genetics, plus much more. In addition, an extensive online video atlas demonstrates movement and posture abnormalities, as well as unique and unusual phenomenology. Get comprehensive, current information on every aspect (including behavioral and psychologic concomitants) of all common and uncommon movement disorders, including Parkinson's disease, other neurodegenerative diseases, tremors, dystonia, Tourette's syndrome, Huntington's disease, and ataxias. Focus on the new discoveries you need to
know about: the role of ubiquitin-proteosome and autophagy systems in neurodegeneration; genetics of Parkinson’s disease and other movement disorders; innovative medical and surgical treatment of Parkinson’s disease and hyperkinetic movement disorders; and more. Stay up to date with new information on autoimmune disorders, novel deliveries of drugs, and new formulations of botulinum toxin. Benefit from access to an outstanding online video library (with dozens of new videos) that demonstrate what you’re likely to see in practice and key elements to look for. Instantly view videos online with your tablet or smartphone, thanks to new QR codes inserted throughout the text. The use of animal models is a key aspect of scientific research in numerous fields of medicine. Movement Disorders, Second Edition vigorously examines the important contributions and application of animal models to the understanding of human movement disorders, and serves as an essential resource for basic neuroscientists engaged in movement disorders research. Academic clinicians, translational researchers and basic scientists are brought together to connect experimental findings made in different animal models to the clinical features, pathophysiology and treatment of human movement disorders. The book is divided into sections on Parkinson's disease, Huntington's disease, dystonia, tremor, paroxysmal movement disorders, ataxia, myoclonus, restless legs
syndrome, drug-induced movement disorders, multiple system atrophy, progressive supranuclear palsy/corticobasal degeneration, and spasticity. This book serves as an essential resource for both clinicians interested in the science being generated with animal models and basic scientists studying the pathogenesis of particular movement disorders. Introduces the scientific foundations for modern movement disorders research Contributing authors are internationally known experts Completely revised with 20% new material Provides a comprehensive discussion of genetics for each type of movement disorder Covers Parkinson's disease, Huntington's disease, dystonia, tremors, and tics

Written by an international group of renowned experts, the Fifth Edition of this premier reference provides comprehensive, current information on the genetics, pathophysiology, diagnosis, medical and surgical treatment, and behavioral and psychologic concomitants of all common and uncommon movement disorders. Coverage includes Parkinson's disease, other neurodegenerative diseases, tremors, dystonia, Tourette's syndrome, Huntington's disease, and ataxias. This edition features extensive updates on genetics, imaging, and therapeutics of Parkinson's disease, other parkinsonian disorders, and all hyperkinetic movement disorders. A bound-in CD-ROM, Video Atlas of Movement Disorders,
demonstrates the movement and posture abnormalities and other disturbances associated with Parkinson's disease and other neurologic disorders. Parkinson's Disease and Other Movement Disorders Oxford University Press, USA

Drawing on the expertise of an international team of authors, Case Studies in Movement Disorders is a compilation of illustrative cases, demonstrating a step-by-step approach to diagnosing and managing these complex conditions. An extensive collection of over sixty videos shows both common and uncommon presentations of a wide range of movement disorders, and the accompanying text guides readers systematically through the clinical history, examination and investigation findings, and diagnosis, and finally discusses the clinical issues raised. Both surgical and pharmacological management options are presented, helping readers understand some of the controversies involved in treatment. The cases are drawn from all of the major groups of movement disorders: ataxia, chorea, dystonia, myoclonus, parkinsonism, tics, and tremor. This will be invaluable for both neurologists in training and more experienced professionals seeking to develop their diagnostic skills, especially when faced with uncommon conditions or uncommon manifestations of common disorders. The many powerful lessons in this case-based book convey clinical pearls on
diagnostic or therapeutic issues in movement disorders.

The second revised edition of this text will update and present current state of the art clinical approaches to this subject. This book will continue to be the source text of information on drug-induced movement disorders authored and edited by the pioneers in the field. It will be an invaluable addition to the library of any neurologist.

This book presents a comprehensive, practical approach to the evaluation of movement disorders using phenomenological basic principles, new discoveries in phenomenological research, and core values of outpatient neurology. Movement Disorders Phenomenology begins with an overview of phenomenology and common approaches to movement disorder patients. Subsequent chapters then accurately and concisely relay information on major hypokinetic disorders such as atypical Parkinsonism, idiopathic Parkinson’s disease, cortical myoclonus, and complex motor tics. Expertly written text is further supplemented by patient vignettes at the beginning of select chapter that focus the reader's attention and highlight the urgency of the problem. These high quality videos aid in the astute clinical diagnosis of many movement disorders that are still largely dependent on visual pattern recognition in the clinic. The book closes with a timely discussion on the role of genetics in movement disorders. Written for the practicing physician, Movement Disorders Phenomenology is an indispensable reference for neurology residents, general neurologists, movement disorders fellows and clinicians, and to any clinician who encounters and evaluates patients in the outpatient arena. Provides a comprehensive update on therapies for Parkinson’s disease and other movement disorders Describes the basic mechanisms of neurodegeneration, pharmacologic interventions for motor and non-motor symptoms, and surgical management Features summary tables and
algorithms that serve as a quick reference guide for practical treatment decisions. The expert guidance of recognised authorities will enable readers of this book to plan their patients’ care with greater confidence.

This practical, clinical reference from the two leading movement disorder experts focuses on the problems of diagnosing and managing all movement disorders. It features descriptions of the disorders, rating scales for clinical research, neurochemistry, clinical pharmacology, genetics, clinical trials, and experimental therapeutics. An accompanying 2-hour videotape contains several hundred video clips with narration that illustrates the manifestations of various movement disorders and their differential diagnoses. Uses a reader-friendly format, with diagrams, photographs, and tables, to make reference quick and easy. Includes a CD-ROM containing several hundred video clips with voice narration, keyed to the text, to help you diagnose movement disorders. Gives you just the information you need for the clinical approach to diagnosis and management, with minimal emphasis on basic science.

About the Author
Dr. Abdul Qayyum Rana is a neurologist who specializes in Parkinson's disease and Movement disorders. He is currently the Director of Parkinson's Clinic of Eastern Toronto and Movement Disorders Center, located in Toronto, Canada. Dr. Rana completed his neurology residency training in New Jersey Neuroscience Institute, New Jersey, U.S.A. He then did a fellowship in Parkinson's disease and Movement disorders at the University of Ottawa, Canada. Dr. Rana is well known for promoting public awareness of Parkinson's disease and Movement disorders. Dr. Rana is also founder of World Parkinson's Education Program. Dr. Rana has written extensively on various aspects of Parkinson's disease and Movement disorders. Some of the books and publications of Dr. Rana are as follows, Book
Principles and Practice of Movement Disorders provides the complete, expert guidance you need to diagnose and manage these challenging conditions. Drs. Stanley Fahn, Joseph Jankovic and Mark Hallett explore all facets of these disorders, including the latest rating scales for clinical research, neurochemistry, clinical pharmacology, genetics, clinical trials, and experimental therapeutics. This edition features many new full-color images, additional coverage of pediatric disorders, updated Parkinson information, and many other valuable updates. An accompanying Expert Consult website makes the content fully searchable and contains several hundred video clips that illustrate the manifestations of all the movement disorders in the book along with their differential diagnoses. Get just the information you need for a clinical approach to diagnosis and management, with minimal emphasis on basic science. Find the answers you need quickly and easily thanks to a reader-friendly full-color format, with plentiful diagrams, photographs, and tables. Apply the latest advances to diagnosis and treatment of pediatric movement disorders, Parkinson disease, and much more. View the characteristic presentation of each disorder with a complete collection of professional-quality, narrated videos online. Better visualize every concept with new full-color illustrations throughout. Search the complete text online, follow links to PubMed abstracts, and download all of the illustrations, at www.expertconsult.com.
This is the second edition of the Oxford Specialist Handbook in Parkinson's Disease and Other Movement Disorders aiming to provide its readership with the latest developments and innovation across the discipline. Alongside this update in content, the addition of new, insightful sections suggested by readers and other experts in the field, will allow the handbook to further develop as the premier quick reference guide for movement disorders. The varied and detailed composition of the handbook's chapters is extremely useful for the various readership of this title. The new edition advances the the knowledge and depth of the previous edition with the addition of a number of new sections. This new and improved edition will be a welcome and extremely useful addition to the neurological world.

Part of the Oxford Textbooks in Clinical Neurology (OTCN) series, this volume covers the basic science and clinical concepts underlying the movement disorders, as well as the diagnosis and treatment of individual hypokinetic and hyperkinetic movement disorders.

Autonomic dysfunction is one of the most prevalent non-motor symptoms that occurs in Parkinson’s disease. Autonomic Dysfunction in Parkinson's Disease provides up to date information on this important topic, which affects quality of life of these patients. This include a large number of domains: orthostatic hypotension, excessive sweating, dry eyes, constipation, weight loss, increased sensitivity to heat and cold, sexual dysfunction. Provides comprehensive reviews on different topics of autonomic dysfunction in Parkinson’s disease Each chapter covers a specific autonomic symptom: classification, assessment, treatment Presents the newest information on
each autonomic symptom in Parkinson’s disease
Movement disorders - ranging from parkinsonism to a variety of hyperkinetic disorders, such as tremors, dystonic, chorea and myoclonus - can be the presenting or a prominent clinical feature in a broad spectrum of systemic conditions such as endocrine and metabolic disorders, autoimmune diseases, infections, intoxications, tumors and pareneoplastic syndromes, stroke and multiple sclerosis. The resulting clinical scenarios can be confusing and difficult to interpret by internists, generalists and neurologists. Movement Disorders in Neurologic and Systemic Disease provides comprehensive coverage of the most common movement disorders seen in systemic and general neurologic disease, as well as differential diagnostic and therapeutic algorithms. The chapters are written by internationally recognized experts and more than 50 illustrative videos highlight the phenomenology of some of the movement disorders and provide a useful 'bed-side' diagnostic tool. This book is a valuable resource for neurologists, physiatrists, psychiatrists, internists, primary care physicians and trainees in medicine and neurology.

Now in its Seventh Edition, DeJong’s The Neurologic Examination has been streamlined and updated for a new generation. An absolutely comprehensive, detailed guide to techniques on the neurologic examination, this book integrates details of neuroanatomy and clinical diagnosis in a readable manner. The text is supplemented by helpful boxes that highlight clinical pearls and offer illustrative cases, and tables
summarize differentials and lists of clinical findings. Hereditary or genetic diseases featuring involuntary movements constitute a major aspect of the practice of neurology, functional neurosurgery, genetics, and many areas of basic and applied neuroscience research. Describing the current knowledge on these disorders, Genetics of Movement Disorders brings together information essential for clinicians, geneticists, and neuroscientists in one source. Utilizing a convenient and accessible format, the book is designed to allow easy identification of relevant information, with the overall organization of topics following established phenotypic classifications of movement disorders such as Parkinsonian syndromes, chorea, ataxia, and major categories of diseases grouped by gene locus. This book broadly appeals to neurologists, neuroscientists, geneticists, as well as cell and molecular biologists and hematologists. Consistently formatted to present a clinical description of the disorder, followed by an in-depth analysis of the mutation and function of the mutated gene including cellular and animal models Emphasizes the use of DNA tests for each respective disorder Provides up-to-date, easily accessible information for clinicians, geneticists, and neuroscientists

Movement Disorders: A Video Atlas is a practical and concise title offering an introduction to the field of movement disorders, which is expanding rapidly with the involvement of various disciplines and specialties. The unique feature of the book is the accompanying video content, comprising common cases in each category of movement
Movement Disorders are a group of neurological conditions that cause problems with movement - either unwanted movements, or slowness and poverty of movement. Parkinson's disease is the most common of these conditions, and affects approximately 1% of the population. The treatment is complex, but does work, and there have been many recent exciting developments in the field. This book aims to help neurologists and other doctors in the recognition and treatment of these important medical problems by using the popular concise format of the Oxford Handbook, text that is easy to understand, and a DVD with videos of people with different movement disorders. Neurology, Volume 2: Movement Disorders is a part of an international series of critical reviews of topics in neurology. This volume focuses on Parkinsonism and dyskinesia, a condition characterized by abnormal involuntary movements. Organized into 18 chapters, this book first elucidates the problems, causes, pathology, brain neurotransmitter changes and receptors,
depression, dementia, fluctuations of disability, and treatment of Parkinson's disease. Subsequent chapters then explore the problems, controversies, and surgical approaches involved in certain dyskinesias. The role of dopamine receptors in movement disorders is also explored. This book will be valuable to neurologists-in-training, as well as to those in research field or in practice in this field of interest. The book's clinical content will help in the management of patients with movement disorders.

A comprehensive clinical reference on managing the entire spectrum of movement disorders

NEW DVD with video clips Featuring contributions from more than one hundred leading experts, this full-color text covers pathophysiology, diagnosis, and management of all movement disorders - from ataxia to Parkinson's Disease. Movement Disorders examines the neurobehavioral changes and comorbidities that frequently occur and incorporates the latest genetic information and the most current references. Chapters cover Clinical Presentation and Course, Pathophysiology, Differential Diagnosis, Etiologies, and Treatment. The third edition is highlighted by a new full-color presentation, more than 240 color illustrations and photos, and a DVD with video clips of patients with movement disorders.

The field of movement disorders is relatively broad, encompassing disorders of increased movement, such as tremors, dystonia, and tics, to disorders characterized by a paucity of movement, such as Parkinson's disease. Our understanding of the pathogenic mechanisms and our treatment options are expanding at a rapid pace. This expansion ranges from the medical and surgical advances in treating Parkinson's disease to the flood of genetic abnormalities that have now been found to cause various movement disorders. Although many patients are seen by the movement disorders specialist in neurology clinics around the country,
most of these patients receive their followup care from a primary care physician or "general" neurologist who must be versed in the characteristics and treatment plans of this diverse group of disorders. The major goal of Parkinson's Disease and Movement Disorders: Diagnosis and Treatment Guidelines for the Practicing Physician is to distill this immense amount of information and to educate the practitioner about the many facets of the movement disorders field. We believe that this book fills a large void, since most texts on movement disorders are more detailed and geared toward the specialist. We have asked the chapter authors to emphasize the clinical characteristics of each disorder, discuss the differential diagnosis and the diagnostic testing, and then outline the various treatment options, as if they were teaching during a preceptorship in their clinic.

The first edition of Parkinson's Disease and Nonmotor Dysfunction was published in 2005 to provide a source of detailed information that could be readily accessed by the practicing physician. The widely praised first edition described and explained these nonmotor features that had at that point received insufficient attention both in the medical and in the lay literature. Since the publication of the first edition, awareness and knowledge of the nonmotor features of PD has dramatically expanded, calling for a new edition of this important title. Timely, fully updated and expanded, Parkinson's Disease and Nonmotor Dysfunction, Second Edition, offers a state-of-the-art overview of the topic from the same talented group of experienced researchers and clinicians who were the driving force behind the first edition. Importantly, a range of additional aspects of nonmotor dysfunction in PD -- such as dermatological, vestibular, and dental dysfunction -- have been included in this second edition, which remains subdivided into five diverse domains: Behavioral abnormalities, autonomic dysfunction, sleep-
related dysfunction, sensory dysfunction, and other aspects of PD such as oculomotor
dysfunction, fatigue, and maxillofacial issues. An invaluable contribution to the literature in
movement disorders, this revised and expanded collection of contributions by an even larger
contingent of superbly knowledgeable authors will further increase awareness of the manifold
contributions that nonmotor features may make to the collective clinical picture experienced by
the patient with PD.

Movement disorders are a complex group of disorders spanning all aspects of neurological
illnesses and range from conditions characterized by too little movement (hypokinesia) to those
where movement is excessive (hyperkinesia). The classic example would be Parkinson’s
disease, while other movement-related problems, such as tremor, chorea, dystonia,
myoclonus, hemiballism and tics, occur in a range of inherited, drug-induced and sporadic
disorders. Genetics plays an important part in the genesis of several conditions characterized
by various movement disorders, such as Huntington’s disease, dystonic conditions and
myoclonus. Somatization from psychologically determined conditions can also manifest as
movement disorders. Finally, sleep may be affected by movement disorders and a typical
example would be restless legs syndrome. To non-experts, movement disorders may appear
to be complex, sometimes bizarre and difficult to manage. Diagnosis is based mostly on
observation and examination rather than radiology and serological assessments. This comp-
hensive handbook deals with all the above movement disorders in a holistic manner, providing
a detailed “snapshot” view of these complex disorders. As well as being useful to the general
physician working in clinical settings where movement disorders often first present, such as
accident and emergency depa-
ments or in primary care, we hope that the up-to-date
information will be useful for trainees and experts in the field of movement disorders. Chapter 1 Parkinson’s disease Kartik Logishetty and K Ray Chaudhuri Introduction Parkinson’s disease was first described by the London physician, James Parkinson, in 1817 and later named after him by Charcot.

Patients with Parkinson's disease (PD) are known to suffer from motor symptoms of the disease, but they also experience non-motor symptoms (NMS) that are often present before diagnosis or that inevitably emerge with disease progression. The motor symptoms of Parkinson's disease have been extensively researched, and effective clinical tools for their assessment and treatment have been developed and are readily available. In contrast, researchers have only recently begun to focus on the NMS of Parkinson's Disease, which are poorly recognized and inadequately treated by clinicians. The NMS of PD have a significant impact on patient quality of life and mortality and include neuropsychiatric, sleep-related, autonomic, gastrointestinal, and sensory symptoms. While some NMS can be improved with currently available treatments, others may be more refractory and will require research into novel (non-dopaminergic) drug therapies for the future. Edited by members of the UK Parkinson's Disease Non-Motor Group (PD-NMG) and with contributions from international experts, this new edition summarizes the current understanding of NMS symptoms in Parkinson's disease and points the way towards future research.

This is an up-to-date, multidisciplinary overview, covering the complete field of motor behavioural and behavioural motor disorders. After an introductory section with a.o. a timely review of pathology in abnormal protein aggregations, the aetiology, pathophysiology, diagnostic and differential diagnostic procedures, and conventional, pharmacotherapeutic and
neurosurgical strategies of the various disorders are dealt with. Related non-motor behavioural disorders are also covered in this textbook, including psychogenic and psychiatric behavioural disorders, stereotypies, OCD, ICD and ADHD. This book is an essential practical source for all medical and allied health professionals dealing with movement disorder patients, but also for researchers seeking a comprehensive, in-depth overview.

The Encyclopedia of Movement Disorders is a comprehensive reference work on movement disorders, encompassing a wide variety of topics in neurology, neurosurgery, psychiatry and pharmacology. This compilation will feature more than 300 focused entries, including sections on different disease states, pathophysiology, epidemiology, genetics, clinical presentation, diagnostic tools, as well as discussions on relevant basic science topics. This Encyclopedia is an essential addition to any collection, written to be accessible for both the clinical and non-clinical reader. Academic clinicians, translational researchers and basic scientists are brought together to connect experimental findings made in the laboratory to the clinical features, pathophysiology and treatment of movement disorders. The Encyclopedia targets a broad readership, ranging from students to general physicians, basic scientists and Movement Disorder specialists. Published both in print and via Elsevier’s online platform of Science Direct, this Encyclopedia will have the enhanced option of integrating traditional print with online multimedia. Connects experimental findings made in the laboratory to the clinical features, pathophysiology, and treatment of
movement disorders Encompasses a wide variety of topics in neurology, neurosurgery, psychiatry, and pharmacology. Written for a broad readership ranging from students to general physicians, basic scientists, and movement disorder specialists.

Psychiatric and cognitive changes are common in patients with Parkinson's disease and have key clinical consequences but, despite this, these symptoms are often under-diagnosed and under-treated, leading to increased morbidity and costs. With chapters focused on the major neuropsychiatric features, Neuropsychiatric and Cognitive Changes in Parkinson's Disease and Related Movement Disorders rectifies this deficit. Written by experts in the field, with a consistent focus on relevant clinical knowledge, it provides a comprehensive overview including all the major behavioral changes associated with movement disorders. The book provides broad, in-depth, accurate and up-to-date scientific information as well as crucial understanding and practical tools to help patients. The book is essential reading for clinicians working in neurology, psychiatry, and geriatric medicine.

'Marsden's Book of Movement Disorders' represents the final work of the late Professor C. David Marsden, who was the most influential figure in the field of movement disorders, in terms of his contributions to both research and clinical practice, in the modern era. It was conceived and written by David Marsden and his colleague at the Institute of Neurology, Prof. Ivan Donaldson. It was their intention that this would be the most comprehensive book on movement disorders and also that it would serve as the
'clinical Bible' for the management of these conditions. It provides a masterly survey of the entire topic, which has been made possible only by vast laboratory and bedside experience. The coverage of this comprehensive online resource includes the full breadth of movement disorders, from the underlying anatomy and understanding of basal ganglia function to the diagnosis and management of specific movement disorders, including the more common conditions such as Parkinson's Disease through to very rare conditions such as Neimann-Pick disease. Chapters follow a structured format, featuring historical overviews, definitions, clinical features, differential diagnosis, investigations and treatment covered in a structured way. Figures include many original photographs and diagrams of historical significance, which can all be downloaded as PowerPoint presentations. Among these illustrations are still images of some original film clips of some of Dr. Marsden's patients published here for the first time. Comprehensively referenced, with links through to primary research journal articles, and updated by experts from the Institute of Neurology at Queen Square, 'Marsden's Book of Movement Disorders' is a valuable reference for movement disorder specialists and researchers, as well as clinicians who care for patients with movement disorders. Provides a broad overview of current rehabilitation approaches, emphasizing the need for interdisciplinary management and focusing on deliverable outcomes. This comprehensive reference provides a detailed overview of current concepts regarding the cause of Parkinson's disease-emphasizing the issues involved in the
design, implementation, and analysis of epidemiological studies of parkinsonism. The daily life impact of movement disorders on people affected ranges from the inconvenient to major quality of life issues, depending upon the disorder and its progression. Topics in this issue of Neurologic Clinics address: Pathogenic Mechanisms of Neurodegeneration in Parkinson’s Disease; Treatment Strategies in Early and Advanced Parkinson’s Disease; Atypical Parkinsonism; Medical and Surgical Treatment of Tremors; Diagnosis and Treatment of Dystonia; Huntington’s Disease: Pathogenesis and Treatment; Tics and Tourette Syndrome; Paroxysmal Movement Disorders; Drug-induced Movement Disorders; Wilson Disease and other Neurodegenerations with Metal Accumulations; Psychogenic Movement Disorders; Ataxia; Gait Disorders; and Movement Disorders in Systemic Diseases. Videos are planned for the majority of the presentations and each article presents an Overview, Imaging, Pathology, and Diagnostic Dilemmas. The editor of this issue of Neurologic Clinics, Dr. Joseph Jankovic, is well known as expert in the pathophysiology, diagnosis, and management of movement disorders - he has served as president of the international Movement Disorder Society and is recipient of numerous research awards related to these disorders. Dr Jankovic has involved world renown experts as authors in this publication. Movement disorders attack the part of the brain that controls our movements, they are a complex group of disorders, spanning all aspects of neurological illnesses. Such
disorders are widespread, often destroying the independence of those affected. Movement Disorders in Clinical Practice provides a concise, practical overview of the diagnosis, treatment and management of patients with these debilitating conditions, including a brief evaluation of ongoing clinical trials. Edited by two key international movement disorder experts, chapters cover Parkinson’s disease, Parkinsonian syndromes, dystonia, tremor, restless legs syndrome, an overview of other movement disorders. An accessible text for family practitioners, critical care and emergency doctors, neurologists in training, consultant neurologists and specialist nurses and allied health professionals working in the field.

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