

# Chapter 3

## Approach to the Geriatric Neurology Patient: The Neurologic Examination

Marwan N. Sabbagh<sup>1</sup> and Anil K. Nair<sup>2</sup>

<sup>1</sup>Banner Sun Health Research Institute, Sun City, AZ, USA

<sup>2</sup>Clinic for Cognitive Alzheimer's Disease Center, Quincy Medical Center, Quincy, MA, USA

### Summary

- Neurologic examinations of geriatric patients must focus on the patient's overall functional ability according to his or her physical, neurologic, behavioral, and cognitive changes that occur with aging.
- A review of medications and physical, head and neck, and cardiovascular examinations are essential.
- Neurologic examinations include/assess:
  - Mental status testing using a cognitive screen such as the MOCA.
  - Speech articulation, loudness, and phonation.
  - Language comprehension, repetition, naming, ability to follow commands, fluency, and prosody.
  - Cranial nerves.
  - Muscle bulk, tone, and strength as well as pronator drift and other abnormal movements.
  - Sensory perception, loss, neglect, pain, and proprioception.
  - Deep tendon and primitive reflexes, as well as clonus.
  - Coordination/Cerebellar function.
  - Gait and posture.
- Careful investigation of the nervous system can reveal underlying causes of various symptoms and prompt further investigation and treatment. Examinations can also provide information that helps to improve care.

### Introduction

As the population ages, the number of patients over age 65 is expected to grow almost exponentially. In fact, the geriatric population is the fastest-growing segment of the population. The geriatric population has unique medical challenges. Their physical and neurologic findings have different root etiologies from their younger counterparts. Thus, there is a consideration for reviewing the neurologic examination for the geriatric patient.

Like geriatrics and geriatric psychiatry, which are well-established subspecialties of primary care and psychiatry, respectively, geriatric neurology is emerging as a subspecialty of neurology. This emergence reflects the growing understanding that geriatric patients have different neurologic conditions that require different diagnostic evaluations and, ultimately, different features. As such, clinical syndromes can have features common to younger patients, but the etiologies are frequently different.

Careful attention to features of the physical and neurologic examination as findings, as with the younger patient, frequently points to root causes, prompting

further investigation. In this chapter, we review the neurologic examination of the geriatric patient and briefly review key elements of the physical examination. Physical and neurologic findings are also detailed throughout the textbook and are cross-referenced accordingly.

### The geriatric neurologic examination with a focus on function

The focus of the geriatric neurologic examination is different from an examination for a typical patient seen at a neurology service or in an office setting. For the latter, the primary purpose of the examination is to localize the site of the lesion and guide the appropriate workup to determine the diagnosis and most appropriate treatment for the condition (Bickley, Szilagyi, and Bates, 2007). In contrast, the focus of the geriatric neurology examination is determining the physical, neurologic, cognitive, and behavioral deficits that will impair a patient's functional ability, as well as identifying his or her ability to carry out specific tasks. The geriatric neurologist must go beyond

# Principles Of Geriatric Neurology

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## **Principles Of Geriatric Neurology:**

**Principles of Geriatric Neurology** Robert Katzman,1992 Principles of Geriatric Neurology combines input from both neurologists and geriatricians offering a superbly focused examination of the neurologic problems of our aging population The book includes recent research on Alzheimer s disease and other disorders and discussions addressing normal biologic and neurologic changes that occur with aging abnormal signs and their related pathophysiology and improved diagnosis and management of patients with age related problems *Geriatric Neuropsychology* Shane S. Bush,Thomas A. Martin,2005-10-10 The text provides a lifespan developmental approach to neuropsychology It addresses the many issues in neuropsychological assessment that differ between younger and older adults It describes the symptoms neuropathology diagnostic considerations and treatment options of common neurological disorders associated with aging It also addresses special considerations related to geriatric neuropsychology such as ethical issues family systems issues decision making capacity cultural consideration and medical medication substance use issues Additionally a list of resources for the elderly and their families is also provided *Principles and Practice of Geriatric Psychiatry* Mohammed T. Abou-Saleh,Cornelius L. E. Katona,Anand Kumar,2011-07-28 The renowned Principles and Practice of Geriatric Psychiatry now in its third edition addresses the social and biological concepts of geriatric mental health from an international perspective Featuring contributions by distinguished authors from around the world the book offers a distinctive angle on issues in this continually developing discipline Principles and Practice of Geriatric Psychiatry provides a comprehensive review of geriatric psychiatry spanning both psychiatric and non psychiatric disorders scientific advances in service development specific clinical dilemmas New chapters on genetics of aging somatoform disorders epidemiology of substance abuse somatoform disorders care of the dying patient Continuing the practice of earlier editions the major sections of the book address aging diagnosis and assessment and clinical conditions incorporating an engaging discussion on substance abuse and schizophrenic disorders Shorter sections include the presentation of mental illness in elderly people from different cultures one of the most popular sections in previous editions Learning and behavioural studies as well as models of geriatric psychiatry practice are covered extensively This book provides a detailed overview of the entire range of mental illness in old age presented within an accessible format Principles and Practice of Geriatric Psychiatry is an essential read for psychiatrists geriatricians neurologists and psychologists It is of particular use for instructors of general psychiatry programs and their residents

**Clinical Geriatric Psychopharmacology** Carl Salzman,2005 Thoroughly updated for its Fourth Edition this volume is the most authoritative clinical reference on the pharmacologic treatment of psychiatric disorders in elderly patients This edition provides complete information on new psychotropic drugs new uses for established drugs and clinically relevant advances in the neurosciences Four new chapters cover genes pharmacokinetics and their impact on prescribing new cognitive enhancing strategies and drugs late life depression and physical illness and depression and cardiac disease in late

life The book offers detailed guidelines including drug names dosages and prescribing recommendations for pharmacologic treatment of specific disorders Chapters include clinical vignettes and tables presenting current clinical trial data Appendices provide succinct information on prescribing and drug interactions **Current Catalog** National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **Handbook of Health and Rehabilitation Psychology** Anthony J. Goreczny,2013-11-11 Despite medical technological advances the major killers with which we must currently contend have remained essentially the same for the past few decades Stroke cancer and heart disease together account for the vast majority of deaths in the United States In addition due to improved medical care many Americans who would previously have died now survive these disorders necessitating that they receive appropriate rehabilitation efforts One result of our own medical advances is that we must now accept the high costs associated with providing quality care to individuals who develop one of these problems and we must avail ourselves to assist of afflicted individuals families Despite the relative stability of causes of death and disability the health care field is currently experiencing tremendous pressures both from professionals with in the field who desire more and better technology than is currently available and from the public and other payers of health care e g insurance companies who seek an end to increasing health care costs These pressures along with an increased emphasis on providing evidence of cost effectiveness and quality assurance are substantially changing the way that health care professionals perform their jobs The Cambridge Handbook of Age and Ageing Malcolm L. Johnson,Vern L. Bengtson,Peter G. Coleman,Thomas B. L. Kirkwood,2005-12-01 The Cambridge Handbook of Age and Ageing first published in 2005 is a guide to the body of knowledge theory policy and practice relevant to age researchers and gerontologists around the world It contains almost 80 original chapters commissioned and written by the world s leading gerontologists from 16 countries and 5 continents The broad focus of the book is on the behavioural and social sciences but it also includes important contributions from the biological and medical sciences It provides comprehensive accessible and authoritative accounts of all the key topics in the field ranging from theories of ageing to demography physical aspects of ageing mental processes and ageing nursing and health care for older people the social context of ageing cross cultural perspectives relationships quality of life gender and financial and policy provision This handbook will be a must have resource for all researchers students and professionals with an interest in age and ageing *Neurogenetics* Stefan-M. Pulst,2000 Neurogenetics is intended for any physician or scientist who manages patients with inherited diseases of the nervous system It presents the clinical phenotypes of the most commonly inherited neurologic diseases and their molecular pathogenesis followed by a description of the appropriate tests to be used in diagnosis Two introductory chapters familiarize the nongeneticist with medical genetic terminology and molecular genetic techniques useful in the analysis of genetic disease and genetic testing Subsequent chapters examine major neurologic disorders caused by single defects as well as disease phenotypes such as Alzheimer disease or amyotrophic lateral sclerosis which may be caused by defects in single genes but

may also be seen as sporadic diseases The genetic components of other common neurologic disorders such as epilepsy multiple sclerosis migraine and stroke are all covered in detail The final chapter discusses genetic counseling of symptomatic and pre symptomatic individuals Throughout chapters discuss genotype phenotype correlations and where appropriate animal models for inherited human neurologic diseases Several chapters are devoted to recently discovered diseases caused by unstable DNA repeats Special emphasis is placed on conveying how DNA testing can be applied to the daily practice of geneticists and neurologists

*Occupational Therapy and Older People* Ann McIntyre, Anita Atwal, 2013-05-30 This timely book locates older people as major clients of occupational therapy services It provides a comprehensive resource for students and a basic working reference for clinicians The book encompasses current theories debates and challenges which occupational therapists need to engage in if they are to provide pro active and promotional approaches to ageing Detailed coverage of bodily structures functions and pathologies leads onto chapters dedicated to activity occupation and participation The ethos of the book is to inspire innovation in the practice of occupational therapy with older people promoting successful ageing that entails control and empowerment Features Contains many practical elements including case studies and narratives from practice Promotes active ageing Adopts the framework of the World Health Organisation's International Classification of Functioning Disability and Health 2001 Specialist contributions reveal the diversity of occupational performance considerations in older age

*The Neurological Side of Neuropsychology* Richard E. Cytowic, 1996 Neurologists neuropsychologists and cognitive scientists work with many of the same problems and patients and yet know little about the literature and approaches of the other disciplines The Neurological Side of Neuropsychology is a primer for neurology residents graduate students and established professionals from other fields who wish to enter behavioral neurology It provides a clear and coherent introduction to contemporary neurological ideas carefully contrasting the conventional hierarchical model of brain organization to the newer multiplex model that scientists from biological backgrounds currently use Instead of presenting laundry lists of arcane maladies along with a key of where in the brain the responsible lesion is or a compendium of tests for a given situation the received wisdom that students are required to memorize Cytowic gives students the historical and conceptual tools they need not only to get up to speed regarding present knowledge but to go forward

*Clinical Neuropsychology and the Psychological Care of Persons with Brain Disorders* George P. Prigatano, 2019-09-06 The administration of psychological care to persons with brain disorders requires a series of skills that integrate the knowledge of clinical neuropsychology with developmental psychology psychotherapy rehabilitation and the study of the humanities In *Clinical Neuropsychology and the Psychological Care of Persons with Brain Disorders* Dr Prigatano describes his approach to this complex topic He reviews some of the defining characteristics of human nature and blends that discussion with an understanding of how the brain normally develops and declines with age The psychological struggles of people at each stage of development are further described as different brain disorders occur at different times in

development      *Psychological Treatment of Older Adults* Michel Hersen, Vincent B. Van Hasselt, 2013-06-29 This multiauthored introductory textbook could not have been conceived or brought to fruition 10 or 15 years ago. Indeed, at that time, relatively little attention was accorded to the psychological needs of older adults. The general tenor of the field then was that older adults would not benefit from psychological intervention. As we now know, this was a faulty assumption that has been discredited with empirical data. Indeed, clinical research data adduced primarily in the last decade clearly documents that older adults do benefit from specific psychotherapies that are tailored to their unique presentation of symptoms. Given the explosion of interest in this area, as evinced by increased investigatory activity, national funding, and media attention, and the increased number of masters and doctoral level courses devoted to this topic, we felt that the time was right for a textbook in the area. Such a flurry of activity also has been fueled by statistics showing how our population by the year 2030 will consist of 30% who are senior citizens. Moreover, since 12% of older adults in the community are estimated to have diagnosable psychiatric disorders and 40% to 50% of older adult medical inpatients have a concomitant psychiatric disorder, the task for clinicians in the next century will be overwhelming.

Sleep Medicine Michael S. Aldrich, 1999-04-08 This book offers a concise methodological approach to the evaluation and treatment of patients with sleep disorders. The management of sleep disorders requires an understanding of sleep itself; thus, the book initially discusses aspects of normal sleep. The remainder of the book provides a formula for critical assessment in which the symptoms and signs and the psychological and medical background of the patient, in conjunction with an understanding of the neurobiological and psychological basis of sleep disorders, are considered. Polysomnographic studies and other laboratory tests supplement and redefine clinical information and assist physicians in their treatment options.

**Subarachnoid Hemorrhage** Bryce Weir, 1998 Accurate diagnosis and appropriate management of subarachnoid hemorrhage (SAH) often presents a challenge for neurologists. The author of this volume, who is both a neurologist and a surgeon, clarifies the steps a neurologist should take when a patient is at risk of SAH, explains when surgery is advised, and helps physicians to treat patients after SAH. All of the causes of SAH, including intracranial aneurysms, are considered to provide a useful guide to case management. Historical, epidemiological, and economic, medico-legal aspects are discussed initially, followed by discussions of diagnosis, pathology, physiology, and medical, surgical, and radiological therapies.

**Cognitive Neuropsychology of Alzheimer's Disease** Robin Morris, James Becker, 2004-12-02 This book describes the latest advances in our psychological understanding of Alzheimer's disease, bringing together the main experts in this field to describe recent developments. It will be valuable for people working in related disciplines such as neurology, psychiatry, and neuroscience, as well as providing an introduction to the field for psychologists.

**Diagnosis and Management of Peripheral Nerve Disorders** Jerry R. Mendell, John T. Kissel, David R. Cornblath, 2001-03-08 Peripheral neuropathies represent a challenging subject for most physicians. This is an up-to-date, comprehensive, and readable book on peripheral neuropathies that includes concise information on the clinical

electrophysiological pathological pathogenic and treatment aspects of the most important disorders New molecular and serologic diagnostic tests are discussed Sections are devoted to nerve and skin biopsy techniques and findings quantitative sensory and autonomic reflex tests Case examples are used liberally throughout the text The editors Mendell Kissel and Cornblath are experienced clinicians that bring complementary knowledge to each of the subjects Additional authors have been handpicked for specific topics which add to the value of the edition

### **Aging and Neuropsychological Assessment**

Asenath LaRue,2013-06-29 It is a privilege to be asked to write the foreword for so excellent a book so timely and so much needed by the field Not only is it most unusual these days to have a single authored volume on so broad a topic but Dr La Rue has done a superb job of providing both a scholarly treatise and a practical handbook With a burgeoning elderly population and the corresponding increase in geriatric psychopathology the needs of mental health services are exceeding by far the supply of appropriate providers In an effort to meet this need psychiatry medicine neurology pharmacology psychology nursing and social work have all made the provision of training in geriatrics and gerontology a high priority but I fear we are losing the race For example multidisciplinary teams that assess diagnose and treat mental health disorders in elderly patients are incomplete without clinical psychologists and neuropsychologists and yet there is barely a handful of clinical psychologists trained in dealing with geriatric patients We can count on our fingers the additional ones graduated each year In hospitals clinics and private practices across the country otherwise skilled psychologists are unprepared to respond to the special mental health needs of the elderly A few CME programs are helping to address this need but they are clearly not enough

### **The Comprehensive Evaluation and Treatment of Epilepsy** Steven C. Schachter,Donald L.

Schomer,1997-05-22 Epilepsy is after headache the second most common neurological disorder This book clarifies the many courses of action to take in treating patients with epilepsy It presents current knowledge about seizures and epilepsy in a comprehensive socially conscious and clear manner The editors have provided this information in a comprehensive easy to use and practical form This short simple pedagogical guide to the diagnosis and management of epilepsy is an important reference work for all medical schools hospitals clinics and primary care centers This book integrates the latest research into essential reviews on Initial management of patients with seizures Neuroradiological evaluation of epilepsy Psychosocial aspects of epilepsy Neuropsychologic problems associated with epilepsy Psychiatric disorders Diagnosis and treatment of status epilepticus Nonepileptic seizures Ambulatory EEG monitoring Epilepsy surgery Endocrine aspects of partial seizures Epilepsy in the elderly

### **Handbook of Neuropsychology and Aging** Paul David Nussbaum,2013-11-11

Leaders in neuropsychology behavioral neurology speech and language science neuropsychiatry and many other disciplines contribute to this volume the first comprehensive review of knowledge in the field They discuss a wide range of disorders including areas of recent research such as frontal lobe dementias and the neuropsychological aspects of late life depression and clinical problems typically given insufficient consideration in other works such as seizure disorder head injury and mental

retardation Normal aging is also covered in detail and assessment procedures and clinical interventions are given thorough treatment Other highlights include discussions of guardianship and caregiving personality and behavior psychotic disorders Alzheimer s and head trauma

*Goodman and Fuller's Pathology for the Physical Therapist Assistant - E-Book* Charlene Marshall, 2023-04-28 Gain an understanding of diseases and disorders to effectively assist the Physical Therapist Goodman and Fuller s Pathology for the Physical Therapist Assistant 3rd Edition provides a solid background in pathology concepts and how they affect the role of the PTA in client rehabilitation With an easy to read approach chapters define each disease or systemic disorder then describe appropriate physical therapy assessments plus guidelines precautions and contraindications for interventions Case studies show how treatment ideas may be applied in everyday practice From PTA educator Charlene M Marshall this market leading pathology text provides the practical tools required to treat patients knowledgeably and effectively It also includes a fully searchable eBook version with each print purchase Concise information on disease processes and systemic disorders provides a background in the underlying pathology of diseases helping PTAs to ask their patients appropriate questions and to adapt therapeutic exercise programs Easy to follow format is organized to first define each disorder followed by sections on clinical manifestations and medical management Chapter objectives outlines and vocab builders at the beginning of each chapter introduce the topics and terminology to be presented Medical Management sections address diagnosis treatment and prognosis for each condition discussed Focus on the Physical Therapist Assistant s role provides the PTA with specific guidelines to the rehabilitation process for patients with diseases and disorders Special Implications for the PTA sections allow students to easily reference information on working with patients with specific diseases or pathologic conditions Nearly 800 drawings and photos reinforce student understanding of diseases conditions and general pathology principles Standardized terminology and language is consistent with the Guide to Physical Therapy Practice familiarizing readers with the standard terminology used in PT practice Abundance of tables and boxes summarize important points making it easy to access key information E chapters add supplemental information on behavioral and environmental factors the gastrointestinal system the reproductive system lab tests and values and more NEW Updated and revised content throughout provides students with the current information they need to be effective clinicians NEW Clinical Pharmacology Spotlight provides an easy reference summary of the basic pharmacology information for each pathology NEW eBook version is included with print purchase The eBook allows students to access all of the text figures and references with the ability to search customize content make notes and highlights and have content read aloud



The Top Books of the Year Principles Of Geriatric Neurology The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Principles Of Geriatric Neurology Introduction**

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