

Table 1. Cranial Nerve Function and Testing³

Cranial Nerve	Function	Test
I – Olfactory	• Sense of smell	• Ask patient to occlude one nostril and close their eyes. • Present a stimulus, such as coffee, and ask the patient to identify the smell.
II – Optic	• Vision	• Visual acuity. • Color vision. • Visual fields. • Pupillary response to light to test for an afferent pupillary defect.
III – Oculomotor	• Ocular motility (superior, inferior and medial recti, inferior oblique) • Lid elevation (levator palpebrae superioris) • Pupillary constriction (efferent limb of light pathway)	• Routinely tested during examination with extraocular motility. • Supraduction. • Infraduction. • Adduction.
IV – Trochlear	• Ocular motility (superior oblique)	• Routinely tested during examination with extraocular motility. Infraduction upon adduction. • Intorsion.
V – Trigeminal	• Facial sensation • Muscles of mastication	• Test the distributions of V₁, V₂ and V₃ separately with a light touch with a cotton wisp to the forehead, upper cheek and jaw, respectively, with the patient's eyes closed. Ask the patient to compare the sensation from right to left, looking for any asymmetry • Assess the motor function of V by feeling either side of the jaw just inferior and anterior to the ear for muscle contraction while asking the patient to clench their teeth. • If indicated, test the corneal reflex (afferent limb: ophthalmic, V₁ and efferent limb, V₂) with a cotton wisp.
VI – Abducens	• Ocular motility (abduction)	• Routinely tested during examination with extraocular motility. • Abduction.
VII – Facial	• Muscles of facial expression • Taste to anterior 2/3 of tongue	• Ask the patient to smile, raise their eyebrows, frown, puff out their cheeks and squeeze their eyelids tightly together while looking for any asymmetry or weakness.
VIII – Vestibulocochlear	• Auditory and vestibular systems	• Hearing can be grossly checked by rubbing your fingers together near a patient's ear and asking if they can identify which ear hears the sound and if they notice any asymmetry in the volume of the sound.
IX – Glosso-pharyngeal X – Vagus	• Palate elevation, gag reflex/ swallowing • Speaking	• Ask the patient to open their mouth and say "ahh" and look for any asymmetry in the palate or deviation of the uvula.
XI – Accessory	• Sternocleidomastoid and trapezius muscle	• Ask the patient to turn their head side-to-side and shrug their shoulders looking for any asymmetry or weakness.
XII – Hypo-glossal	• Muscle action of the tongue	• Ask the patient to stick their tongue out and note if it deviates to one side.

Neurologic Examination

Alexandra Armitage



Neurologic Examination:

DeJong's the Neurologic Examination William Wesley Campbell, Russell N. DeJong, 2005 This classic text is a comprehensive detailed guide to the neurologic examination The book provides a thorough understanding of both the techniques of the examination and the anatomic and physiologic bases of the results The brand new edition offers you a complete concise reference you ll use everyday to quickly interpret the signs and symptoms of neurologic dysfunction compare and contrast abnormalities confirm findings and make accurate differential diagnoses confidently to assess responses to treatment This heavily revised new edition provides complete coverage of the nervous system including anatomic and physiologic presentation of disorders recommended examination procedures neurodiagnostic and laboratory testing diagnostic reasoning and neurologic differential diagnosis guidelines You ll confidently identify the signs and symptoms of disease know when additional diagnostic testing is indicated accurately interpret diagnostic data and recommend effective treatment options

Pocket Guide and Toolkit to DeJong's Neurologic Examination William W. Campbell, 2007-11-01 Designed as a diagnostic tool for non neurologists or first year neurology residents this pocket guide contains the most essential information from the best selling DeJong s The Neurologic Examination Sixth Edition Included are step by step instructions for each stage of the neurologic examination numerous illustrations depicting examination techniques and frequently used tests and scales such as the Boston Naming Test Glasgow Coma Scale and Denver Scale of Communication Function A toolkit at the back of the book contains lightweight adaptations of implements used in performing the examination such as visual acuity charts a red lens a multi pinhole an optokinetic nystagmus tape and other devices

Neurologic Examination Robert Schwartzman, 2008-04-15 Neurologic Examination is the ideal text for any neurologist learning the difficult art of diagnosis This illustrated guide to all aspects of the neurological exam Reemphasizes the usefulness of the exam in localizing lesions in the central and peripheral nervous system from which differential diagnoses are derived Demonstrates the examination of the brachial plexus cervical plexus chronic regional pain patients is demonstrated not found in other manuals of neurological examination Reintroduces the use of drifts the arm roll and parietal copy to clinical neurology

Neurologic Examination Robert J. Schwartzman, 2020-07-14 Neurologic Examination is designed to help medical personnel make a diagnosis for a neurological illness with the patient s history and physical examination Neurology is logical but requires the physician to localize the lesion to an anatomical part of the neuroaxis and then to develop a differential diagnosis based on this localization Imaging technology is now superb and buttresses but does not replace the examination There is no imaging technique that can diagnose a migraine headache It may however demonstrate white matter hyperintensities that are often confused with a demyelinating disease or small vessel disease A negative MRI of the spine in a patient with clear L5 S1 signs and symptoms such as a weak extensor hallucis longus muscle and a depressed ankle jerk still has overwhelming evidence of L5 S1 pathology This book leads the physician to the correct

localization of a lesion utilizing simple bedside tests The only tools employed are a reflex hammer and a pin The illustrations and technique descriptions guide the practitioner through important distinctions with the observation of subtle details Information gleaned in less than 10 minutes allows the attending to order the pertinent laboratory and imaging studies required to confirm a diagnosis and initiate treatment in the current health care climate In general the patient history gives the diagnosis the neurological examination proves it modern imaging and laboratory evaluation guides the treatment and predicts the prognosis Experience with generations of medical students and residents utilizing the techniques illustrated and described in this book have been successful in making reliable neurologic diagnoses easier **Technique of the**

Neurologic Examination, Fifth Edition William DeMyer, 2003-10-22 This comprehensive and authoritative text describes the full spectrum of procedures and techniques required for the critical neurologic exam Includes new coverage of pediatric conditions and the neuroanatomical examination of infants new illustrations correlating imaging studies with clinical presentations extensive coverage of electrodiagnostic testing methods and more **DeJong's The Neurologic**

Examination William W. Campbell, 2012-09-21 This 7th edition of DeJong's The Neurological Examination offers practitioners and residents of Neurology an in depth discussion of neurologic exams that will not be found anywhere else Without abandoning classic concepts and science this definitive source on neurologic examination techniques has been streamlined and updated The text integrates details of neuroanatomy and clinical diagnosis in an easy to read format Anatomical and exam illustrations help ensure proper technique Plus illustrative cases and tables summarize differentials and list clinical findings With this book as their guide readers will truly understand the anatomical underpinnings of examination techniques **FEATURES** Four color design Updated figures and references Text is supplemented by helpful boxes that highlight key points When available evidence based medical insights are incorporated in assessing the value of specific tests The Neurologic Examination Hiroshi Shibasaki, Mark Hallett, 2016 Table of Contents Table of Boxes Preface

Explanatory Notes Chapter 1 Diagnosis of Neurological Diseases General Principle Chapter 2 History Taking Chapter 3 Physical Examination Chapter 4 Evaluation of Consciousness Chapter 5 Brainstem and Cranial Nerve Territories Chapter 6 Olfactory Sensation Chapter 7 Visual Functions Chapter 8 Pupils and Accommodation Chapter 9 Extraocular Muscles Gaze and Eye Movements Chapter 10 Trigeminal Nerve Chapter 11 Facial Nerve Chapter 12 Auditory Function Chapter 13 Sense of Equilibrium Chapter 14 Swallowing Phonation and Articulation Chapter 15 Neck and Trunk Chapter 16 Motor Functions Chapter 17 Tendon Reflexes and Pathologic Reflexes Chapter 18 Involuntary Movements Chapter 19 Somatosensory Function Chapter 20 Autonomic Nervous System Chapter 21 Posture and Gait Chapter 22 Mental and Cognitive Functions Chapter 23 Aphasia Apraxia and Agnosia Chapter 24 Paroxysmal and Functional Disorders Chapter 25 Ion Channel Disorders Chapter 26 Psychogenic Neurological Diseases Chapter 27 Thalamus Chapter 28 Hypothalamus and Neuroendocrinology Chapter 29 Neurological Emergency Chapter 30 Disability Functional Recovery and Prognosis Chapter 31 How to Plan

Laboratory Tests Afterword For Those Who Wish to Study Neurology Field Guide to the Neurologic Examination Steven L. Lewis, 2005 Field Guide to the Neurologic Examination provides a detailed review of the basic neurologic exam giving clinicians the tools needed to obtain valuable diagnostic information and address specific clinical presentations The guide s three sections include a brief overview of neurologic diagnosis instructions on how to perform the basic components of the neurologic exam and ways to tailor the exam to specific clinical situations The clinical focus assists in the practical bedside evaluation of common neurologic symptoms Also included is a concise appendix of common neurologic tests with brief summaries to help clinicians choose the best approach for each patient **The Neurologic Examination** Hiroshi Shibasaki MD, PhD, Mark Hallett MD, 2016-06-15 Whereas most book about the neurologic examination are disease and anatomy oriented The Neurologic Examination Scientific Basis for Clinical Diagnosis focuses on a pathophysiological approach to the nervous system The authors emphasize that the scientific interpretation of symptoms obtained from carefully taking the patient s history and noting signs found during physical examination are essential in the diagnosis of neurologic diseases even if laboratory testing such as electrophysiology and neuroimaging are more widely used This book aims to provide a bridge from the basic sciences such as anatomy physiology pharmacology and molecular biology to the neurologic symptoms Neurologic examinations provide the foundation for diagnosis and only after a thorough and expertly executed examination can one begin to incorporate laboratory testing and treatment The Neurologic Examination Scientific Basis for Clinical Diagnosis based on the widely successful Japanese book Diagnosis of Neurological Diseases Igakushoin Japan second edition 2013 by Dr Shibasaki hopes to revitalize the use of neurologic examinations before jumping into laboratory testing Doing so can help cut down on time patient and physician anxiety and unnecessary testing expenses This book is a must read for all practicing neurologists residents and medical students Key Features Include The chapters are arranged in order of the actual steps in a neurologic examination Highly illustrated with figures and tables indicative of the neurologic signs and symptoms that may appear during the given step and 99 discussion boxes are inserted throughout to provide a more in depth look at particular topics without interrupting the reading flow of the text **Neuroanatomy and the Neurologic Exam** Terence R. Anthoney, 1993-10-18 In this book Neuroanatomy and the Neurologic Exam is an innovative comprehensive thesaurus that surveys terminology from neuroanatomy and the neurologic examination as well as related general terms from neurophysiology neurohistology neuroembryology neuroradiology and neuropathology The author prepared the thesaurus by examining how terms were used in a large sample of recent widely used general textbooks in basic neuroanatomy and clinical neurology These textbooks were written by experts who received their primary professional training in 13 different countries allowing the thesaurus to incorporate synonyms and conflicting definitions that occur as a result of variations in terminology used in other countries The thesaurus contains **White Book Of Neurologic Examination, The: A Beginner's Essential** You Jiang Tan, 2022-04-20 The neurologic examination is often viewed as a daunting monstrosity

byzantine in nature complex to teach and cumbersome to learn However neurologic conditions are not uncommon in GP and hospital practice and a grounded understanding of pertinent neurologic symptoms signs and conditions is absolutely vital This book serves to demystify the seemingly convoluted processes behind the neurologic examination with chapters focussing on bringing the reader back to the basics breaking complicated techniques down into its individual steps supplemented by clear and concise explanation of neurologic principles The book discusses neurologic signs and symptoms commonly encountered in our daily practice with flow charts pictures and tables to help the reader learn shape and build a solid foundation in neurology Tips from examiner and specific case examples are included to improve the reader s grasp of the topics This easy to read guidebook is essential for all medical students and physicians seeking to prepare for their professional examinations to improve on their care of our patients or simply to understand the wonderful inner workings of neurology a little better Well written textbooks which focus on neurologic examination and written in a palatable manner for the non neurologist are rare and few They are often admixed with other non neurologic topics e g respiratory cardiac or abdominal examination with superficial and cursory discussion of neurologic conditions At the other end of the spectrum neurology textbooks are often written in a manner better suited to neurologists than to non neurologists struggling to better understand the basic concepts In my years of teaching students from all 3 local medical schools studying for their undergraduate medical degrees and medical officers preparing for the MRCP PACES examination a common problem they encountered was the lack of a palatable yet informative neurologic text which helps them understand the concepts without murdering their interest in the topic I believe this book serves to fill that gap and to hopefully better prepare our doctors in their careers and to nurture their love and interest in this subject I so love

The Neurologic Examination Russell N. DeJong, 1950 DeJong's The Neurologic Examination William Campbell, Richard J. Barohn, 2019-02-11 This popular reference is the definitive guide on exam techniques for neurology residents fellows and practitioners integrating details of neuroanatomy and diagnosis in an easy to read easy to follow format A new clinical focus new videos online and new illustrations make DeJong s The Neurologic Examination 8th Edition even more useful for mastery of this complex area Anatomical and exam illustrations ensure proper technique and illustrative case studies and tables summarize differentials and clinical findings

Advanced Practice Nursing Guide to the Neurological Exam Alexandra Armitage, 2015-03-06 Today s advanced practice registered nursing and physician assistant programs have been allocating less time to the study of neurology leaving new practitioners with an uncertain grasp of how to approach the neurological patient Here is a how to manual for knowledgeably conducting the basic neurological examination and confidently applying exam findings to the interpretation of common neurological symptoms It explains all facets of the standard neuro exam that is conducted in clinical and hospital settings and includes an abundance of photos illustrations and useful algorithms The book examines how to use the exam results to determine a likely diagnosis or to identify an area of concern for further diagnostic tests The text

presents both basic and advanced concepts related to the exam to foster a deeper understanding of the meaning and physiology underlying an abnormal finding Step by step the text describes how to conduct the exam and provides photos illustrations and diagrammatic representations of examination steps and concepts Algorithms bring a logical problem solving approach to clinical thinking and reference tables provide information at a glance for the busy practitioner The book will be beneficial both for new practitioners who seek mastery of neurology fundamentals and a solid understanding of exam findings as well as for those who have mastered the fundamentals and wish to gain more sophisticated diagnostic skills in order to accurately analyze the meaning of each symptom in the broader context of neurological practice Key Features Presents a clear step by step description of how to conduct a neurological examination and apply findings in the clinical setting Addresses the needs of both new and seasoned practitioners Provides a wealth of illustrations and diagrams to reinforce concepts Uses algorithms to enhance a logical problem solving approach Includes quick reference tables for the busy practitioner Alexandra Armitage MS APRN CNL is a clinical practitioner who has worked and taught in various clinical and educational neurological and neurosurgical settings She received her BS from the University of Natal South Africa and her MS and post master s APRN certificate from the University of New Hampshire She is currently working as a provider at Neurosurgery of Southern New Hampshire in Nashua New Hampshire She has given numerous neurology and neurosurgical lectures to both nursing and nurse practitioner students and is keenly interested in advancing the neurological knowledge of all nurses In addition she is the book reviewer for the New Hampshire Nurse s Association She is a member of Sigma Theta Tau and the American Academy of Neurology

DeJong's The Neurologic Examination Armin F. Haerer,1992 A student of DeJong Dr Haerer has updated this classic work on neurologic tests in light of the latest imaging electrodiagnostic and laboratory methods Chronicles all the various neurologic tests and their results clearly explaining what those results mean and how they relate to the human nervous system

DeMyer's The Neurologic Examination: A Programmed Text, Seventh Edition Jose Biller,Gregory Gruener,Paul Brazis,2016-09-22 The single best guide to learning how to perform the diagnostic neurologic examination enhanced by more than 80 online videos Presented in full color DeMyer s provides neurologists and psychiatrists in training with a proven didactic way to learn the complicated technique of using the physical examination to diagnose neurologic illness This trusted classic also reviews the anatomy and physiology necessary to interpret the examination and it details the laboratory tests and neuroimaging best suited for a particular clinical problem You will also find complete up to date coverage of the latest imaging modalities for assessing disease Utilizing a learn at your own pace teaching approach DeMyer s The Neurologic Examination features valuable learning aids such as Full color illustrations that clearly explain neuroanatomy and physiology Detailed tables and mnemonics to help you remember important steps and signs to look for during the examination Learning Objectives to help you organize and retain important takeaways from each chapter Questions and answers within the text to reinforce key points Clear algorithms that reveal the differential diagnoses

of common neurologic symptoms NEW More than 80 online clinical vignette videos If you are looking for authoritative step by step guidance from experienced teachers clinicians on how to perform an accomplished neurologic examination your search ends with DeMyer s **Clinical Neurological Examination and Localization** Vinit Suri,2021-04-25 Bedside Neurological examination is an important tool in diagnosing neurological disorders Despite significant advances in the investigations available for diagnosing neurological disorders bedside neurological examination remains the cornerstone in diagnosing neurological disorders and should not only be conducted prior to the investigations but should be actually be utilized to plan the appropriate investigations The book provides a focused account of various aspects of the neurological examination leading to clinical localisation and hence obtaining the neurological diagnosis It includes topics like how to obtain a appropriate neurological history higher mental system examination examination of speech and various cranial nerves and examination of other systems including motor system sensory system reflexes cerebellar and autonomic nervous system The book also includes certain interesting topics like neurological examination of the unconscious patient and tricks and tips of neurological localisation The book is easy to read and memorize due to multiple self explanatory illustrations and important aspects being highlighted in bulleted format The book will be of extreme help for MD and DNB students of Internal Medicine as well as DM and DNB students of Neurology and DNB and MCH Neurosurgery students hence covering a fairly large readership base It will also be read by practising Internal medicine physicians neurologists and neurosurgeons who may want to revise the basics and tricks of neurological examination and localization Technique of the Neurologic Examination William DeMyer,1969 **Neurological Examination** Charles A. McKendree,1928 *Neurologic Examination of the Dog* John T. McGrath,1960

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