

**Table 1. Cranial Nerve Function and Testing<sup>3</sup>**

Cranial Nerve	Function	Test
I – Olfactory	<ul style="list-style-type: none"> <li>• Sense of smell</li> </ul>	<ul style="list-style-type: none"> <li>• Ask patient to occlude one nostril and close their eyes.</li> <li>• Present a stimulus, such as coffee, and ask the patient to identify the smell.</li> </ul>
II – Optic	<ul style="list-style-type: none"> <li>• Vision</li> </ul>	<ul style="list-style-type: none"> <li>• Visual acuity.</li> <li>• Color vision.</li> <li>• Visual fields.</li> <li>• Pupillary response to light to test for an afferent pupillary defect.</li> </ul>
III – Oculomotor	<ul style="list-style-type: none"> <li>• Ocular motility (superior, inferior and medial recti, inferior oblique)</li> <li>• Lid elevation (levator palpebrae superioris)</li> <li>• Pupillary constriction (efferent limb of light pathway)</li> </ul>	<ul style="list-style-type: none"> <li>• Routinely tested during examination with extraocular motility.</li> <li>• Supraduction.</li> <li>• Infraduction.</li> <li>• Adduction.</li> </ul>
IV – Trochlear	<ul style="list-style-type: none"> <li>• Ocular motility (superior oblique)</li> </ul>	<ul style="list-style-type: none"> <li>• Routinely tested during examination with extraocular motility. Infraduction upon adduction.</li> <li>• Intorsion.</li> </ul>
V – Trigeminal	<ul style="list-style-type: none"> <li>• Facial sensation</li> <li>• Muscles of mastication</li> </ul>	<ul style="list-style-type: none"> <li>• Test the distributions of V<sub>1</sub>, V<sub>2</sub> and V<sub>3</sub> 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</li> <li>• 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.</li> <li>• If indicated, test the corneal reflex (afferent limb: ophthalmic, V<sub>1</sub> and efferent limb, V<sub>2</sub>) with a cotton wisp.</li> </ul>
VI – Abducens	<ul style="list-style-type: none"> <li>• Ocular motility (abduction)</li> </ul>	<ul style="list-style-type: none"> <li>• Routinely tested during examination with extraocular motility.</li> <li>• Abduction.</li> </ul>
VII – Facial	<ul style="list-style-type: none"> <li>• Muscles of facial expression</li> <li>• Taste to anterior 2/3 of tongue</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
VIII – Vestibulocochlear	<ul style="list-style-type: none"> <li>• Auditory and vestibular systems</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
IX – Glosso-pharyngeal X – Vagus	<ul style="list-style-type: none"> <li>• Palate elevation, gag reflex/ swallowing</li> <li>• Speaking</li> </ul>	<ul style="list-style-type: none"> <li>• Ask the patient to open their mouth and say "ahh" and look for any asymmetry in the palate or deviation of the uvula.</li> </ul>
XI – Accessory	<ul style="list-style-type: none"> <li>• Sternocleidomastoid and trapezius muscle</li> </ul>	<ul style="list-style-type: none"> <li>• Ask the patient to turn their head side-to-side and shrug their shoulders looking for any asymmetry or weakness.</li> </ul>
XII – Hypo-glossal	<ul style="list-style-type: none"> <li>• Muscle action of the tongue</li> </ul>	<ul style="list-style-type: none"> <li>• Ask the patient to stick their tongue out and note if it deviates to one side.</li> </ul>

# Neurologic Examination

**Heinrich Mattle, Marco Mumenthaler**



## **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 *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 *DeJong's The Neurologic Examination* William W. Campbell, 2012-09-21 This 7th edition of DeJong's *The Neurologic 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 *DeJong's The Neurologic Examinations* Lakshmi Narasimhan Ranganathan, 2019-01-01 Key Points Numerous illustrations and clinical images ensure proper technique and emphasize key information necessary for an optimally effective examination Case scenarios bridge the gap between the book and the bedside The comments section has been tailored to maximize concept in minimum content

**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 [The Neurologic Examination](#) Russell N. DeJong, 1950

**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

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**Neurological Examination** Charles A. McKendree, 1928

**DeMyer's The Neurologic Examination: A Programmed Text, Sixth Edition** Jose Biller, Gregory Gruener, Paul Brazis, 2011-04-25 The classic step by step guide to learning how to perform the diagnostic neurologic examination now in full color This is an excellent book that will be very useful for learning the neurologic examination It is easy to read well illustrated and interactive The art and science of neurology is constantly evolving and books must stay current with the available literature This sixth edition provides updated information illustrations and references that are necessary to stay relevant to neurology today 3 Stars Doody's Review Service Excellent The information is detailed pertinent and excellently arranged What is surprising is the incredibly complete interesting and worthwhile information it contains The author is obviously an excellent clinician and teacher who has taught many years One can easily detect that DeMyer's book contains the distilled best of his teaching experiences Archive of Internal Medicine The book presents much more information than the title suggests it has excellent parts on neuroanatomy and clinical neurosciences Four Stars Excellent from Mayo Clinic Proceedings For more than four decades DeMyer's The Neurologic Examination has provided neurologists and psychiatrists in training with a uniquely clear and didactic way of learning 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 best suited for a particular clinical problem Utilizing a proven effective learn at your own pace teaching approach DeMyer's allows you to work through real life clinical situations and rehearse the skills and procedures that make the neurologic examination productive for both patient and clinician You will also learn how to tailor the exam for different clinical needs including The Unconscious Patient The Face and Head Vision The Peripheral Ocular Motor System The Central Ocular Motor System Cerebellar Dysfunction The Somatic Motor System The Special Senses DeMyer's The Neurologic Examination features a new full color presentation that includes the latest imaging modalities for assessing disease questions and answers to help you monitor your progress and content that reflects the knowledge and experience of outstanding teachers clinicians

[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.

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**Neurologic Examination of the Dog** John T. McGrath, 1960  
**Journal of the American Medical Association**, 1914  
*Manual for medical examiners of the United States Veterans' Administration* United States Veterans Administration, Central Office, 1951  
*Archives of Internal Medicine*, 1919  
**American Journal of Syphilis and Neurology**, 1919  
**Southwestern Medicine**, 1925  
*Fundamentals of Neurology* Heinrich Mattle, Marco Mumenthaler, 2016-12-14

The essential neurotransmitter for assimilating the basics of clinical neurology. The second edition of this practical guide provides a thorough introduction to the essential concepts of clinical neurology. Coverage includes history taking, the neurological examination, and ancillary tests; topical diagnosis and differential diagnosis of typical syndromes; the diseases of the central nervous system, peripheral nerves, autonomic nervous system, and muscles; epilepsy and inflammatory diseases such as multiple sclerosis. Central to the book are the lucid structuring of complex contents, allowing efficient learning even without prior knowledge of the subject, and the vital link between theory and clinical practice with essential information on history taking, the clinical examination, and additional tests, all supported by informative graphics and appropriate computed tomography or magnetic resonance imaging studies.

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[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 is divided into three sections: 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.

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