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# Neurosurgery explained pdf

Neurological surgery constitutes a medical discipline and surgical specialty that provides care for adult and pediatric patients in the treatment of pain or pathological processes that may modify the function or activity of the central nervous system. For example: (brain, hypophysis and spinal cord), the peripheral nervous system (cranial, spinal and peripheral nerves), the autonomic nervous system, the supporting structures of these systems (meninges, skull and skull base and vertebral column) and their vascular supply (intracranial, extracranial and spinal vasculature). Treatment encompasses both non-operative management (prevention, diagnosis – including image interpretation – and treatments such as, but not limited to neurocritical intensive care and rehabilitation) and operative management with its associated image use and interpretation (endovascular surgery, functional and restorative surgery, stereotactic radiosurgery and spinal fusion) including its instrumentation. The broad aim of The American Board of Neurological Surgery is to encourage the study, improve the practice, elevate the standards and advance the science of neurological surgery and thereby to serve the cause of public health. Neurosurgeons operate on the spine and brain. They operate on the spinal cord and the nerves in addition to the spinal bones and discs. To be a neurosurgeon, one must complete 4 years of undergraduate school, 4 years of medical school, and 6-8 years of specialized neurosurgery training. In addition to working on the brain, neurosurgeons apply the same precision and delicacy to spinal operations which is a very large part of they do. In addition to disc surgery, spinal fusion, and decompression, neurosurgeons have extensive expertise and experience with spinal cord trauma, tumors, and difficult cases that involve brain and spinal disorders that are commonly misdiagnosed or overlooked. What Does It Take to Be a Neurosurgeon? Nationwide, only about 105 neurosurgeons graduate from training programs per year. Neurosurgery training is by far the most vigorous and one of the longest medical trainings anywhere in the world. During their 6-8 years of specialized training after medical school, neurosurgeons handle the most common as well as most complex injuries and diseases of the spine and spinal cord. During this extended training, spinal decompression, spinal discectomy, cervical and lumbar spinal fusion surgeries are amongst the types of surgeries they perform. In fact, by far, no other training, including orthopedic surgery residency training, offers such extensive experience and training in spinal surgery. As if that was not enough, some neurosurgeons choose to dedicate an extra year, after completing their Neurosurgery Program, to obtain further specialized training to acquire the most advanced and minimally invasive cutting edge technology in the world and bring it to their patients. Watch a Brain Surgery Patient Testimonial Video What Does It Take to Become a Spine Surgeon? In addition to the extensive training required to be a competent spine surgeon, the most important and perhaps the most difficult part of being a great spine surgeon is understanding the complex dynamics of the spine. The spine supports the weight of the whole body and is constantly moving. Furthermore, it is a complex 3D structure comprised of many segments that have to move in concert to perform their function. In order to perform a successful surgery, your doctor first has to precisely determine where the pain is coming from. That is not easy. Your doctor must rely on a full examination in conjunction with your MRI to find the source of pain. After finding the correct source of pain, extensive understanding of the dynamics and architecture of the spine as it moves specifically in your body is required in order to come up with the appropriate treatment plan. Only a very experienced, diverse, and skilled surgeon is equipped to perform spinal surgery in the best possible manner specific to you. Without such qualifications, some surgeons may not be capable to offer you the most minimally invasive, cutting edge, and new solutions that would benefit you the most. What is Board Certification? Board Certification is only awarded to tested and qualified physicians that meet the highest marks of quality and safety. Board Certification is a process overseen by an accredited body to certify the level of knowledge and competency of the physicians in the medical decisions, diagnosis abilities, treatments and procedures that they perform in their field of practice. Dr. Gravori is a Board Certified Neurosurgeon with special dual Orthopedic and Neurosurgery Fellowship Training and expertise in field of Spinal Surgery. Watch Dr. Gravori Discuss His Philosophy as a Neurosurgeon Schedule a Consultation with an Expert Los Angeles Spine Surgeon Today! If you are looking for a board-certified spine surgeon to help you treat a spinal condition or alleviate pain, contact Dr. Gravori and schedule a consultation! Call ProMedSPINE at 888-75-SPINE today! Next, read What is Sciatica? Anatomy of the Spine and Peripheral Nervous System Glossary of Spine-related Terms Low Back Strain and Sprain Minimally Invasive Spine Surgery Sports-related Neck Injury Tethered Spinal Cord Syndrome Vertebral Compression Fractures Adult Onset Hydrocephalus Gunshot Wound Head Trauma Sports-related Head Injury Sports-related Neck Injury Pituitary Gland and Pituitary Tumors Stereotactic Brain Biopsy Stereotactic Radiosurgery COVID-19 and Neurosurgery Low Back Strain and Sprain Minimally Invasive Spine Surgery Craniostylosis and Craniofacial Disorders Tethered Spinal Cord Syndrome Epilepsy Electrocardiography Arteriovenous Malformations Carotid Endarterectomy and Stenosis Description Product Details Click on the cover image above to read some pages of this book! Professor Al Rhoton says about this book: "This book meets and exceeds its goal of being "a resident's survival guide." The book will be especially helpful to trainees in neurosurgery, however, medical students, interns, and multiple other medical specialists will also find it useful. I found the contents interesting, enlightening, and beneficial even after decades of neurosurgical practice." This is what Proffessor Joanne Hickey says about the book: "well written, well organized, and practical text described by the author as a 'resident's survival guide'. It is a text that will be cherished and revisited often as a beloved friend who provides counsel when needed." A major strength of the text is the clarity of explanation about basic principles for interpreting imaging studies, supported by a wealth of excellent radiological images The chapters on tumours are of remarkable quality and usefulness especially for a book of this size. The author and contributors have created a valuable resource to aid clinical training in neurosurgery. It is also an equally valuable resource for other physicians, nurses, and health professionals dedicated to the care of the neurological and neurosurgical patients." This excellent pocket guide is written with the neurosurgical resident in mind but is equally useful for students, nurses and other health professionals. It contains the following chapters: Historical aspects of neurosurgery, Anatomy, Physiological aspects, History and examination, Interpretation of cranial CT and MRI scans, Interpretation of spinal imaging, Neuro angiography, Brain tumours, Spinal tumours, Vascular abnormalities, Hydrocephalus, Craniospinal trauma, Infection, Degenerativeconditions, Congenital neurosurgical conditions, Monitoring and treatment in neurosurgical ICU, Drugs commonly used in ICU, Technology in neurosurgery, Ethical considerations in neurosurgery, Further reading ISBN: 9780954881306 ISBN-10: 0954881303 Audience: General Format: Paperback Language: English Number Of Pages: 380 Published: 22nd December 2005 Publisher: Vesuvius Books Ltd Country of Publication: GB Dimensions (cm): 23.39 x 15.6 x 1.98 Weight (kg): 0.53

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