

Neurosurgical disorders

Abdominal pseudocyst

[Abdominal pseudocyst.](#)

Abducens nerve palsy

[Abducens nerve palsy](#)

Abscess

[Abscess](#)

[Achondroplasia](#)

Aneurysm

[Aneurysm](#)

[Aneurysmal subarachnoid hemorrhage](#)

[Carotid artery stenosis.](#)

[Cervical disc herniation](#)

[Chronic subdural hematoma](#)

[Lumbar spinal stenosis.](#)

Dystonia

[Dystonia](#)

Meige's syndrome

[Meige's syndrome](#)

Somatotroph pituitary neuroendocrine tumor

[Somatotroph pituitary neuroendocrine tumor](#)

Subarachnoid hemorrhage

[Subarachnoid hemorrhage](#)

Vestibular schwannoma

With a high level of [confidence](#) and strong [concordance](#), [neurosurgeons](#) estimated that the vast majority of patients with central nervous system tumors, hydrocephalus, or neural tube defects mandate neurosurgical involvement. A significant proportion of other common neurological diseases, such as traumatic brain and spinal injury, vascular anomalies, and degenerative spine disease, demand the attention of a neurosurgeon-whether via operative intervention or expert counsel. These estimates facilitate measurement of the expected annual volume of neurosurgical disease globally ¹.

Tumors

see [Intracranial Tumor](#).

[Peripheral nerve sheath tumor](#).

[Spinal Tumor](#)

Cerebrovascular disease

see [Cerebrovascular disease](#)

[Aneurysm](#).

[Arteriovenous malformation](#).

[Ischemic cerebrovascular disease](#).

[Intracerebral hemorrhage](#).

Spine and Peripheral Nerve Disorders

see [Degenerative disease](#)

Neurosurgical evaluation of neck and back pain, nerve compression syndromes, peripheral nerve (including nerve compression such as carpal tunnel syndrome) , herniated intervertebral discs, and spinal cord compression syndromes and spine surgery.

Infections

[Abscess](#)

[Meningitis](#)

[Osteomyelitis](#)

[Subdural empyema](#)

[Shunt infection](#)

[Wound infection](#)

Pediatric & Developmental Disorders

brain and spinal tumors

[Tethered cord](#) syndrome

spina bifida, syringomyelia, myelomeningocele

[Hydrocephalus](#)

[Craniosynostosis](#)

[Intracranial lipoma](#)

[Hypothalamic hamartoma](#)

[Neurenteric cyst](#)

[Dermal sinus](#)

[Encephalocele](#)

[Aqueductal stenosis](#)

[Neural tube defect](#)

[Agenesis of the corpus callosum](#)

[Absence of the septum pellucidum](#)

[Spinal dysraphism](#)

[Myeloschisis](#)

[Lipomyelomeningocele](#)

[Split cord malformation](#)

[Lumbosacral nerve root anomaly](#)

[diastematomyelia](#),

[Klippel-Feil syndrome](#), CSF shunts,

[Dandy Walker malformation](#)

[Chiari malformation](#)

[Arachnoid Cyst](#)

NeuroGenetic Diseases: inherited neurologic syndromes including neurofibromatosis type I (Von Recklinghausen's disease) and II, tuberous sclerosis, and [Von Hippel-Lindau disease](#).

Trigeminal Neuralgia / Hemifacial Spasm Disorders: trigeminal neuralgia (tic douloureux) and glossopharyngeal neuralgia and hemifacial spasm (tic convulsif).

Functional Neurologic Disorders: Parkinson's disease, obsessive compulsive disorder, cancer-related- and chronic-pain syndromes, thalamotomy for disabling tremor and epilepsy surgery for the surgical treatment of medically refractory seizures.

Trauma

[Traumatic brain injury](#)

[Skull fracture](#)

[Concussion](#)

[Cerebral contusion](#)

[Cerebrospinal fluid fistula](#)

[Diffuse axonal injury](#)

[Epidural hematoma](#)

[Intracranial Hypotension](#)

[Subdural hematoma](#)

[Intracerebral hematoma](#).

see [Idiopathic intracranial hypertension](#)

Disorders

Absence of the Septum Pellucidum

Acid Lipase Disease

Acid Maltase Deficiency

Acquired Epileptiform Aphasia

Acute Disseminated Encephalomyelitis

ADHD

Adie's Pupil

Adie's Syndrome

Adrenoleukodystrophy

Agenesis of the Corpus Callosum

Agnosia

Aicardi Syndrome

Aicardi-Goutieres Syndrome Disorder

AIDS - Neurological Complications

Alexander Disease

Alpers' Disease

Alternating Hemiplegia

Alzheimer's Disease

Amyotrophic Lateral Sclerosis (ALS)

Anencephaly

Aneurysm

Angelman Syndrome

Angiomatosis

Anoxia

Antiphospholipid Syndrome

Aphasia

Apraxia

Arachnoid Cysts

Arachnoiditis

Arnold-Chiari Malformation

Arteriovenous Malformation

Asperger Syndrome

Ataxia

[Ataxia Telangiectasia](#)

Ataxias and Cerebellar or Spinocerebellar Degeneration

Atrial Fibrillation and Stroke

Attention Deficit-Hyperactivity Disorder

Autism

Autonomic Dysfunction

Back Pain

Barth Syndrome

Batten Disease

Becker's Myotonia

[Behcet's Disease](#)

Bell's Palsy

Benign Essential Blepharospasm

Benign Focal Amyotrophy

Benign Intracranial Hypertension

Bernhardt-Roth Syndrome

Binswanger's Disease

Blepharospasm

Bloch-Sulzberger Syndrome

Brachial Plexus Birth Injuries

Brachial Plexus Injuries

Bradbury-Eggleston Syndrome

Brain and Spinal Tumors

Brain Aneurysm

Brain Injury

Brown-Sequard Syndrome

Bulbospinal Muscular Atrophy

CADASIL

Canavan Disease

Carpal Tunnel Syndrome

Causalgia

Cavernomas

Cavernous Angioma

Cavernous Malformation

Central Cervical Cord Syndrome

Central Cord Syndrome

Central Pain Syndrome

Central Pontine Myelinolysis

Cephalic Disorders

Ceramidase Deficiency

Cerebellar Degeneration

Cerebellar Hypoplasia

Cerebral Aneurysms

Cerebral Arteriosclerosis

Cerebral Atrophy

Cerebral Beriberi

Cerebral Cavernous Malformation

Cerebral Gigantism

Cerebral Hypoxia

Cerebral Palsy

Cerebro-Oculo-Facio-Skeletal Syndrome (COFS)

Charcot-Marie-Tooth Disease

Chiari Malformation

Cholesterol Ester Storage Disease

Chorea

Choreoacanthocytosis

Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)

Chronic Orthostatic Intolerance

Chronic Pain

Cockayne Syndrome Type II

[Coffin Lowry Syndrome](#)

Colpocephaly

Coma

Complex Regional Pain Syndrome

Congenital Facial Diplegia

Congenital Myasthenia

Congenital Myopathy

Congenital Vascular Cavernous Malformations

Corticobasal Degeneration

Cranial Arteritis

Craniosynostosis

Cree encephalitis

[Creutzfeldt Jakob Disease](#)

Cumulative Trauma Disorders

Cushing's Syndrome

Cytomegalic Inclusion Body Disease

Cytomegalovirus Infection

Dancing Eyes-Dancing Feet Syndrome

Dandy-Walker Syndrome

Dawson Disease

De Morsier's Syndrome

Deep Brain Stimulation for Parkinson's Disease

Dejerine-Klumpke Palsy

Dementia

Dementia - Multi-Infarct

Dementia - Semantic

Dementia - Subcortical

Dementia With Lewy Bodies

Dentate Cerebellar Ataxia

Dentatorubral Atrophy

Dermatomyositis

Developmental Dyspraxia

Devic's Syndrome

Diabetic Neuropathy

Diffuse Sclerosis

Dravet Syndrome

Dysautonomia

Dysgraphia

Dyslexia

Dysphagia

Dyspraxia

Dyssynergia Cerebellaris Myoclonica

Dyssynergia Cerebellaris Progressiva

Early Infantile [Epileptic Encephalopathy](#)

Empty Sella Syndrome

Encephalitis

Encephalitis Lethargica

Encephaloceles

Encephalopathy

Encephalopathy (familial infantile)

Encephalotrigeminal Angiomatosis

Epilepsy

Epileptic Hemiplegia

Erb-Duchenne and Dejerine-Klumpke Palsies

Erb's Palsy

Essential Tremor

Extrapontine Myelinolysis

[Fabry Disease](#)

Fahr's Syndrome

Fainting

Familial Dysautonomia

Familial Hemangioma

Familial Idiopathic Basal Ganglia Calcification

Familial Periodic Paralysis

Familial Spastic Paralysis

Farber's Disease

Febrile Seizures

Fibromuscular Dysplasia

Fisher Syndrome

Floppy Infant Syndrome

Foot Drop

[Friedreich's Ataxia](#)

Frontotemporal Dementia

Gaucher Disease

Generalized Gangliosidoses

Gerstmann's Syndrome

Gerstmann-Straussler-Scheinker Disease

Giant Axonal Neuropathy

Giant Cell Arteritis

Giant Cell Inclusion Disease

[Glioma](#)

Globoid Cell Leukodystrophy

Glossopharyngeal Neuralgia

Glycogen Storage Disease

Guillain-Barré Syndrome

Hallervorden-Spatz Disease

Head Injury

Headache

Hemicrania Continua

Hemifacial Spasm

Hemiplegia Alterans

Hereditary Neuropathies

Hereditary Spastic Paraplegia

Heredopathia Atactica Polyneuritiformis

Herpes Zoster

Herpes Zoster Oticus

Hirayama Syndrome

Holmes-Adie syndrome

Holoprosencephaly

HTLV-1 Associated Myelopathy

Hughes Syndrome

Huntington's Disease

Hydranencephaly

Hydrocephalus

Hydrocephalus - Normal Pressure

Hydromyelia

Hypercortisolism

Hypersomnia

Hypertonia

Hypotonia

Hypoxia

Immune-Mediated Encephalomyelitis

Inclusion Body Myositis

Incontinentia Pigmenti

Infantile Hypotonia

Infantile Neuroaxonal Dystrophy

Infantile Phytanic Acid Storage Disease

Infantile Refsum Disease

Infantile Spasms

Inflammatory Myopathies

Iniiencephaly

Intestinal Lipodystrophy

Intracranial Cysts

Intracranial Hypertension

Isaacs' Syndrome

Joubert Syndrome

Kearns-Sayre Syndrome

Kennedy's Disease

Kinsbourne syndrome

Kleine-Levin Syndrome

Klippel-Feil Syndrome

[Klippel Trenaunay Syndrome](#) (KTS)

Klüver-Bucy Syndrome

Korsakoff's Amnesic Syndrome

Krabbe Disease

Kugelberg-Welander Disease

Kuru

Lambert-Eaton Myasthenic Syndrome

Landau-Kleffner Syndrome

Lateral Femoral Cutaneous Nerve Entrapment

Lateral Medullary Syndrome

Learning Disabilities

Leigh's Disease

Lennox-Gastaut Syndrome

Lesch-Nyhan Syndrome

Leukodystrophy

Levine-Critchley Syndrome

Lewy Body Dementia

Lipid Storage Diseases

Lipoid Proteinosis

Lissencephaly

Locked-In Syndrome

Lou Gehrig's Disease

Lupus - Neurological Sequelae

[Lyme Disease](#) - Neurological Complications

Machado-Joseph Disease

Macrencephaly

Megalencephaly

Melkersson-Rosenthal Syndrome

Meningitis

Meningitis and Encephalitis

Menkes Disease

[Meralgia Paresthetica](#)

Metachromatic Leukodystrophy

Microcephaly

Migraine

Miller Fisher Syndrome

Mini Stroke

Mitochondrial Myopathies

Moebius Syndrome

Monomelic Amyotrophy

Motor Neuron Diseases

Moyamoya Disease

Mucopolidoses

Mucopolysaccharidoses

Multifocal Motor Neuropathy

Multi-Infarct Dementia

[Multiple Sclerosis](#)

Multiple System Atrophy

Multiple System Atrophy with Orthostatic Hypotension

Muscular Dystrophy

Myasthenia - Congenital

Myasthenia Gravis

Myelinoclastic Diffuse Sclerosis

Myoclonic Encephalopathy of Infants

Myoclonus

Myopathy

Myopathy - Congenital

Myopathy - Thyrotoxic

Myotonia

Myotonia Congenita

Narcolepsy

[Neuroacanthocytosis](#)

Neurodegeneration with Brain Iron Accumulation

Neurofibromatosis

Neuroleptic Malignant Syndrome

Neurological Complications of AIDS

Neurological Complications of Lyme Disease

Neurological Consequences of Cytomegalovirus Infection

Neurological Manifestations of Pompe Disease

Neurological Sequelae Of Lupus

Neuromyelitis Optica

Neuromyotonia

Neuronal Ceroid Lipofuscinosis

Neuronal Migration Disorders

Neuropathy - Hereditary

Neurosarcoidosis

Neurosyphilis

Neurotoxicity

Nevus Cavernosus

Niemann-Pick Disease

Normal Pressure Hydrocephalus

Occipital Neuralgia

[Ohtahara Syndrome](#)

Olivopontocerebellar Atrophy

Opsoclonus Myoclonus

Orthostatic Hypotension

O'Sullivan-McLeod Syndrome

Overuse Syndrome

Pain - Chronic

Pantothenate Kinase-Associated Neurodegeneration

Paraneoplastic Syndromes

Paresthesia

Parkinson's Disease

Paroxysmal Choreoathetosis

Paroxysmal Hemicrania

Parry-Romberg

Pelizaeus-Merzbacher Disease

Pena Shokeir II Syndrome

Perineural Cysts

Periodic Paralyzes

Peripheral Neuropathy

Periventricular Leukomalacia

Persistent Vegetative State

Pervasive Developmental Disorders

Phytanic Acid Storage Disease

Pick's Disease

Pinched Nerve

Piriformis Syndrome

Pituitary Tumors

Polymyositis

Pompe Disease

Porencephaly

Postherpetic Neuralgia

Postinfectious Encephalomyelitis

Post-Polio Syndrome

Postural Hypotension

Postural Orthostatic Tachycardia Syndrome

Postural Tachycardia Syndrome

Primary Dentatum Atrophy

Primary Lateral Sclerosis

Primary Progressive Aphasia

Prion Diseases

Progressive Hemifacial Atrophy

Progressive Locomotor Ataxia

Progressive Multifocal Leukoencephalopathy

Progressive Sclerosing Poliodystrophy

Progressive Supranuclear Palsy

Prosopagnosia

Pseudo-Torch syndrome

Pseudotoxoplasmosis syndrome

Pseudotumor Cerebri

Psychogenic Movement

[Radial nerve palsy](#)

Ramsay Hunt Syndrome I

Ramsay Hunt Syndrome II

Rasmussen's Encephalitis

Reflex Sympathetic Dystrophy Syndrome

Refsum Disease

Refsum Disease - Infantile

Repetitive Motion Disorders

Repetitive Stress Injuries

[Restless Legs Syndrome](#)

Retrovirus-Associated Myelopathy

Rett Syndrome

Reye's Syndrome

Rheumatic Encephalitis

Riley-Day Syndrome

Sacral Nerve Root Cysts

Saint Vitus Dance

Salivary Gland Disease

Sandhoff Disease

Schilder's Disease

Schizencephaly

Seitelberger Disease

Seizure Disorder

Semantic Dementia

Septo-Optic Dysplasia

Severe Myoclonic Epilepsy of Infancy (SMEI)

Shaken Baby Syndrome

Shingles

Shy-Drager Syndrome

Sjögren's Syndrome

Sleep Apnea

Sleeping Sickness

Sotos Syndrome

Spasticity

Spina Bifida

Spinal Cord Infarction

Spinal Cord Injury

Spinal Cord Tumors

[Spinal Muscular Atrophy](#)

Spinocerebellar Atrophy

Spinocerebellar Degeneration

Steele-Richardson-Olszewski Syndrome

Stiff-Person Syndrome

Striatonigral Degeneration

Stroke

Sturge-Weber Syndrome

Subacute Sclerosing Panencephalitis

Subcortical Arteriosclerotic Encephalopathy

SUNCT Headache

Swallowing Disorders

Sydenham Chorea

Syncope

Syphilitic Spinal Sclerosis

Syringohydromyelia

Syringomyelia

Systemic Lupus Erythematosus

Tabes Dorsalis

Tardive Dyskinesia

Tarlov Cysts

Tay-Sachs Disease

Temporal Arteritis

Tethered Spinal Cord Syndrome

Thomsen's Myotonia

Thoracic Outlet Syndrome

Thyrotoxic Myopathy

Tic Douloureux

Todd's Paralysis

[Tourette's syndrome](#)

Transient Ischemic Attack

Transmissible Spongiform Encephalopathies

Transverse Myelitis

Traumatic Brain Injury

Tremor

Trigeminal Neuralgia

Tropical Spastic Paraparesis

Troyer Syndrome

Tuberous Sclerosis

Vascular Erectile Tumor

Vasculitis Syndromes of the Central and Peripheral Nervous Systems

Von Economo's Disease

Von Hippel-Lindau Disease (VHL)

Von Recklinghausen's Disease

Wallenberg's Syndrome

Werdnig-Hoffman Disease

Wernicke-Korsakoff Syndrome

West Syndrome

Whiplash

Whipple's Disease

Williams Syndrome

Wilson Disease

Wolman's Disease

X-Linked Spinal and Bulbar Muscular Atrophy

Zellweger Syndrome

Neurological disorders

see [Neurological disorders](#).

Parts

[Definition](#)

[Epidemiology](#)

[Classification](#)

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[Pathogenesis](#)

[Pathophysiology](#)

[Pathology](#)

[Clinical features](#)

[Diagnosis](#)

[Differential diagnosis](#)

[Treatment](#)

[Outcome](#)

1)

Dewan MC, Rattani A, Baticulon RE, Faruque S, Johnson WD, Dempsey RJ, Haglund MM, Alkire BC, Park KB, Warf BC, Shrime MG. Operative and consultative proportions of neurosurgical disease worldwide: estimation from the surgeon perspective. J Neurosurg. 2018 May 1:1-9. doi: 10.3171/2017.10.JNS17347. [Epub ahead of print] PubMed PMID: 29749918.

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