



A TO Z GUIDE TO
Clinical Neurosciences and
Rehabilitation Services

**CARING FOR PEOPLE OF ALL AGES,
CONDITIONS AND ACUITY LEVELS
THROUGH ACADEMIC EXPERTISE**



NATIONALLY RECOGNIZED CLINICAL NEUROSCIENCE EXPERTISE FOR NORTHERN CALIFORNIA AND THE CENTRAL VALLEY

As inland Northern California's only academic health center, we're proud to offer extraordinary breadth and depth of care for individuals and families suffering from neurological problems.

Our clinical neuroscience services involve highly coordinated collaborations across multiple UC Davis specialty areas, many of which routinely rank among the nation's best. Regular partners include our departments of neurology, neurological surgery, orthopaedic surgery, otolaryngology, neuroradiology, radiation oncology, pulmonology, physical medicine and rehabilitation, and others.

Clinician-scientists in these areas often play leadership roles in their professional fields, and are able to deploy leading-edge modalities such as advanced neuroimaging, stereotaxy and robotic- and computer-assisted surgical systems. They also harness research in clinical and basic science to support innovative patient care and to offer additional newly emerging therapeutic options.

We match this advanced proficiency and innovation with patient-centered care, delivered by multidisciplinary teams of physicians, nurses, specialists, physical and occupational therapists, social workers, genetic counselors, mental health professionals and many other compassionate providers.

By working together in these ways, we can offer our region current and highly effective options across the entire spectrum of neurological disease. Thank you for considering the services in this guide when working to meet the needs of patients with neurological symptoms or challenges of any kind. For referral contact information, please see the back page of this booklet.

Some common conditions and services listed by lay or alternate terms

Alzheimer's disease, dementia, aging – see Memory disorders

Autism spectrum disorder – see Neurodevelopmental disorders

Cancer – see Brain tumors; Pituitary tumors; Neuro-oncology; Skull base tumors; Stereotactic radiosurgery; Pediatric section

Concussion – see Traumatic brain injury

Diagnostic testing – see Electromyography (EMG), Neurodiagnostics

Epilepsy – see Neuropsychology; Stereotactic neurosurgery; Teleneurology; Pediatric section

Head trauma – see Brain and spinal cord injury; Neurocritical care; Neuropsychology; Rehabilitation; Traumatic brain injury

Imaging – see Neurodiagnostics; Teleneurology

Movement disorders – see Hereditary, autonomic and neurodegenerative disorders; General neurology; Movement disorders; Stereotactic neurosurgery; Teleneurology; Pediatric section

Nerve damage – see Peripheral nerve diseases and injuries; Stereotactic neurosurgery; Pediatric section

Neuromuscular – see Electromyography (EMG); General neurology; Myasthenia gravis; Neurocritical care; Neuromuscular disease; Rehabilitation; Pediatric section

Seizures – see Epilepsy; General neurology; Teleneurology; Stereotactic radiosurgery; Pediatric section

Sleep disorders – see General neurology; Sleep medicine; Pediatric section

Spinal cord injury – see Brain and spinal cord injury; Neurocritical care; Neurospinal disorders; Rehabilitation; Pediatric section

Stroke – see Cerebrovascular disease and Stroke Center; Neurocritical care; Neuropsychology; Rehabilitation; Teleneurology

Trauma – see Amputee services and chronic pain; Brain and spinal cord injury; Neurocritical care; Neuropsychology; Rehabilitation; Traumatic brain injury; Pediatric section

Tumors – see Brain tumors; Pituitary tumors; Neuro-oncology; Neuropsychology; Peripheral nerve diseases and injuries; Skull base tumors; Stereotactic neurosurgery; Pediatric section

A

Amputee services and chronic pain

The multidisciplinary adult amputee clinic at the UC Davis Medical Center evaluates extremity loss caused by trauma, vascular disease and other factors. Our staff includes physiatrists, physical therapists, nurses, psychiatrists, licensed clinical social workers, prosthetists and orthotists, who are experienced in rehabilitation and prepared to meet the individual needs of amputee patients. Our goal is to help each patient achieve their optimum level of physical capacity.



B

Brain tumors

The brain tumor program combines experienced professionals and the world's most advanced technologies to effectively treat difficult-to-resect tumors. The program offers teams of specialists delivering leading-edge treatments, such as minimally invasive endoscopic and keyhole surgical techniques that can remove brain and skull based tumors through small openings in the nose, eyebrow, or behind the ear. Surgical treatment of brain tumors located in eloquent brain regions often includes awake brain surgery for mapping of speech, vision, and sensorimotor systems. Professionals from neurosurgery, otolaryngology, neuro-oncology, neuroradiology, neuropathology, neurology, and radiation oncology collaborate to provide comprehensive and compassionate care for adults and children.

Brain and spinal cord injury

Neurosurgery, neurology and psychiatry faculty members provide outstanding care for patients who have suffered serious brain injury as a result of accidents or sports activities. UC Davis Health's spinal cord injury rehabilitation service is the only one of its kind in inland Northern California that provides integrated comprehensive management to both spinal cord injury inpatients and outpatients. Our goal is to help patients become as independent and self-reliant as possible and to obtain healthy and active lifestyles.





C

Cerebrovascular disease and Stroke Center

UC Davis Medical Center's stroke program provides acute inpatient care and outpatient management of cerebrovascular disease from a team that includes fellowship-trained stroke neurologists, an interventional neuroradiologist, and a neurosurgeon dual-trained in open surgery and endovascular embolization. The program is a certified primary stroke center.

Our telestroke program provides 24x7/365 day a year call access to vascular neurologists. The service can assist with assessing symptoms, confirming diagnoses, and identifying need for interventions such as tPA administration or mechanical thrombectomy, on a contracted basis.

Patients triaged in our emergency department also receive timely and aggressive medical care and treatments that include thrombolytic therapy, interventional neuroradiologic techniques, and new medications under clinical investigation. Our inpatient stroke unit provides intensive monitoring, aggressive evaluation of etiology and early rehabilitation of stroke patients, and participates in the evaluation of new forms of treatment. Stroke patients may also receive care through our inpatient and outpatient rehabilitation services.



E

Electromyography (EMG)

UC Davis Health's electromyography laboratory is accredited by the American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM). The laboratory has earned Accreditation with Exemplary Status.

Epilepsy and epilepsy monitoring

Our comprehensive epilepsy program is a leading program for the medical and surgical management of complex epileptic disorders. The National Association of Epilepsy Centers (NAEC) has designated UC Davis as a level 4 Comprehensive Epilepsy Program, the highest rating awarded. A wide array of services are available, including:

- Clinical neurophysiology
- Neurodiagnostic imaging
- Neuroradiology
- Pharmacy
- Neuropsychology
- Neurosurgery
- Child neurology

The program provides a state-of-the-art inpatient epilepsy monitoring unit with beds for adults and children, high-resolution MRI, single photon emission computed tomography (SPECT), and PET.

G

General neurology

Our general neurology service provides diagnosis and treatment for adults and children with a variety of neurological disorders such as dementia, epilepsy, movement disorders, tremor, dystonia, multiple sclerosis, neuromuscular conditions, headache and sleep disorders. Patients may subsequently be referred to one of our neurological specialty programs.

General neurosurgery

Our neurosurgery specialists are also trained in all aspects of general neurosurgical practice, and thus are able to effectively manage the common problems as well as the unusual, highly challenging cases in their specific subspecialties. The department's organization into subspecialized programs (cerebrovascular, functional, pediatrics, pituitary, skull-base surgery, spine, trauma-neurocritical care, and tumor), and intradepartmental referral to specialists addressing various categories of disease, have permitted the accumulation of the experience and expertise known to improve patient outcomes in both complicated and simple cases.



H

Headache

Our clinical practice diagnoses and treats patients suffering from chronic headaches and strives to apply the latest treatment trends. UC Davis physician-researchers also investigate the causes and treatments of migraines, cluster headaches, and tension headaches to help inform and improve clinical practice.

Hereditary, autonomic and neurodegenerative disorders, and neurological effects of systemic disorders

Amyotrophic lateral sclerosis (ALS)

The multidisciplinary ALS clinic at UC Davis is certified as an ALS Center of Excellence by the ALS Association. The outpatient clinic is conducted jointly by our Department of Neurology and Department of Physical Medicine and Rehabilitation.

Multiple sclerosis and other immunological disorders of the brain and spinal cord

The multiple sclerosis clinic provides expert diagnosis and treatment for a diverse range of patients who have multiple sclerosis and other neuroimmunological disorders. Our MS team comprises two neurologists or neuroimmunologists, and a MS nurse.

Huntington's Disease Center of Excellence

Our Huntington's disease clinic is recognized as a Huntington's Disease Society of America (HDSA) Center of Excellence for our expertise in clinical care. The clinic is one of the largest in the country, and the only level 1 Center of Excellence in Northern California. Our multidisciplinary team includes a movement disorder neurologist, nurse practitioner, social worker, physical therapist, genetic counselor and a psychiatrist.

M

Memory disorders (Alzheimer's disease, dementia, aging)

The UC Davis Alzheimer's Disease Center aims to translate research advances into improved diagnosis and treatment for patients with Alzheimer's disease and related dementias, while finding ways to prevent or cure later-life cognitive impairment and dementia. The center is one of 33 funded by the National Institute on Aging and brings together neurologists, geriatric psychiatrists, geriatricians, neuropsychologists, psychometrists, social workers, nurses and others.

A specialty clinic at the center evaluates patients who present with memory problems, using a range of medical, neurological, psychological and/or psychosocial evaluations. The clinic refers patients back to their primary care physicians with treatment recommendations.





Movement disorders

The Departments of Neurology and Neurosurgery have an outstanding movement disorders program that provides inpatient and outpatient evaluation, treatment and management of a range of diseases that cause involuntary excessive movements or slow, awkward and deliberate movements.

Faculty members provide diagnosis, management, and medical and surgical treatment of movement disorders such as:

- Parkinson's disease
- Huntington's disease
- Essential tremor
- Ataxia
- Dystonia
- Other movement disorders

Patients receive the latest treatments, such as pharmaceutical interventions, botulinum toxin therapy, and deep brain stimulation (DBS) implantation and programming.

Myasthenia gravis

UC Davis Health is home to some of the nation's experts in rare neuromuscular diseases such as myasthenia gravis, Lambert-Eaton Syndrome and inherited forms of myasthenia. Our myasthenia gravis clinic is one of the largest in the U.S., treating more than 400 patients per year from across the West.

N

Neurocritical care

Critically ill patients with neurological injury and illness receive expert management through our interdisciplinary neurocritical care program. Our neurointensivists help treat diseases such as traumatic brain injury, spinal cord injury, subarachnoid hemorrhage, intracerebral hemorrhage, stroke, neuromuscular weakness, and status epilepticus, and employ multiple modes of monitoring and neurosurgical interventions to individualize treatment plans.

Our 10-bed Neurosurgical Intensive Care Unit (NSICU) specializes in the most complex care of neurosurgical, neurotrauma and stroke patients, and offers advanced neurological monitoring and innovative interventions that allow for the best quality outcome for patients. This unit also serves as the specialty area for the management of stroke patients.

Neurodevelopmental disorders

The UC Davis MIND Institute is an internationally known center of clinical expertise and emerging research focused on children with neurodevelopmental disorders. Faculty physicians, psychologists, and scientists provide expert care and develop programs and best treatments for autism spectrum disorder, fragile X syndrome, Down syndrome, attention deficit hyperactivity disorder, 22q11.2 deletion syndrome, and other neurodevelopmental disorders.

The MIND Institute is home to the Massie Family Clinic and provides medical assessments and psychological testing. Clinic providers give treatment recommendations to referring schools, agencies, physicians, and mental health clinicians.

The Department of Neurosurgery, in collaboration with the Departments of Surgery and Pediatrics, provides superb care of pediatric conditions such as perinatal intraventricular hemorrhage, hydrocephalus, craniofacial anomalies, and spina bifida. Advanced procedures performed include fetal surgery, endoscopic third ventriculostomy, craniofacial reconstruction, and repair of complex spina dysraphism. Also see the Pediatrics section.

Neurodiagnostics

Our neuroradiology and interventional neuroradiology team provides the most diagnostically accurate assessment of the central nervous system, and actively works to advance the science of imaging in its clinical application. The unit consists of diagnostic neuroradiologists who practice solely in the area of neuroradiology, and are subspecialty trained and certified in the assessment of diseases and injuries of the brain, neck and spine. The section also includes dedicated neurointerventionalists also subspecialty trained in the treatment of vascular diseases of these regions.

We use a broad range of standard imaging modalities such as CT, MRI, and PET, as well as advanced imaging techniques such as magnetic resonance perfusion, magnetic resonance spectroscopy and diffusion tensor imaging to improve diagnostic accuracy and help determine new applications.

Neurogenomics

Increasingly, DNA sequencing of an individual's DNA provides information about their underlying neurological symptoms. At UC Davis Health, adult and pediatric neurologists work closely with genomic medicine to determine whether alterations in the DNA sequence can explain a patient's disorder and provide insight into therapy and/or family counseling.

The Division of Genomic Medicine helps improve the quality of life for individuals of all ages with genetic disorders, as well as their family members. The division's clinics see adults, children and newborns for a variety of indications.

Neurohospitalists

Our team of neurohospitalists provides quality inpatient care for individuals suffering from neurological disorders.

Neuromuscular disease

The neuromuscular disease clinic in the Department of Physical Medicine and Rehabilitation is the official Muscular Dystrophy Association (MDA) Diagnostic Clinic for the Sacramento region. The clinic offers care to

adults and children with neuromuscular diseases including all of the muscular dystrophies, myotonias, congenital myopathies, myositis, peroneal muscular atrophy, infantile and juvenile spinal muscular atrophy and amyotrophic lateral sclerosis (ALS).

Services and treatments available include:

- Multidisciplinary diagnostic consultation and follow-up, including genetic counseling
- Inpatient care for diagnostic evaluation or surgical procedures
- Physical and occupational therapy evaluations
- Psychological evaluation and social service consultations
- Prevocational evaluation
- Prescription orthotic treatment
- Diagnostic procedures, including laboratory and electrodiagnostic tests and muscle biopsy evaluation

Neuro-oncology

Nationally recognized experts in neuro-oncology from the fields of neurosurgery, otolaryngology, neuropathology, neurology, medical oncology, neuroradiology, radiation oncology and social services provide comprehensive care for adults and children with neurological tumors, both benign and malignant. State-of-the-art treatments include computer-guided tumor removal; minimally invasive endoscopic skull base surgery; highly focused, non-invasive stereotactic radiosurgery; novel immunotherapy; and combination chemotherapy.

Management is coordinated through multidisciplinary tumor boards and is highly patient-specific and individualized, in accord with the needs, goals and desires of each patient. Our goal is to provide optimal care and a broad range of support to patients and their families.

Also see the sections on Brain and Pituitary tumors; Skull base tumors; Stereotactic neurosurgery and Pediatric neurosciences.



Neurospinal disorders

The multidisciplinary UC Davis Spine Center is home to internationally recognized experts in neuro-spinal disorders who are highly trained in a full-range of technologies, such as minimally invasive vertebroplasty and kyphoplasty procedures and computer-assisted spine surgery. As part of the multidisciplinary center, neurosurgical spine faculty members work in collaboration with other specialties to treat various developmental, deformity, degenerative, traumatic, and oncologic spinal disorders and conditions. Physical medicine faculty members are especially known for their expertise in the non-surgical management of patients with spinal disorders, children and young adults with spinal cord injury and spina bifida, and for adults with post-polio syndrome.

Neuropsychology

A neuropsychology service offered through our neurosciences clinic evaluates patients with a wide variety of illnesses and injuries, such as brain tumor, stroke, traumatic brain injury, multiple sclerosis, Parkinson's disease and various forms of dementia. Board-certified neuropsychology staff also oversee pre- and post-surgical neuropsychological evaluations of patients undergoing surgery for epilepsy, and regularly conduct Wada tests and intra-operative/extra-operative language mapping during awake surgery for removal of tumors, epileptic foci, and vascular malformations from critical brain areas.

P

Pain

Teams of specialists including neurologists, neurosurgeons, anesthesiologists and psychologists provide compassionate, innovative care to those suffering from both acute and chronic pain. Modalities employed include novel medication regimens, nerve blocks, brain, spine and nerve stimulation or ablation, and counseling.

Peripheral nerve diseases and injuries

Neurology faculty provide state-of-the-art treatment and diagnostics to patients suffering from peripheral neuropathy. Injury to the nerves is often indicative of underlying health concerns, and our specialists work to discover causes and treatments using advanced diagnostic tools such as our electrophysiology and cardiology labs, genetic testing, and autonomic evaluation. There is neurosurgical specialization in peripheral nerve decompression, repair, reconstruction, and tumor removal. Our physicians also work closely with our Division of Pain Medicine to provide relief for patients. Surgical treatment is available for conditions such as peripheral nerve entrapments and tumors.

Pituitary tumors and cysts

Specialists in neurosurgery, endocrinology, neuro-ophthalmology and radiation oncology offer coordinated, multidisciplinary care to patients with tumors, cysts, and dysfunction of the pituitary gland. This may involve minimally invasive endoscopic transnasal removal of a tumor or cyst, highly focused radiation (stereotactic radiosurgery) of a tumor, or medical treatment of hormone excess or deficiency.



Post-polio

UC Davis' post-polio clinic is one of four specialty clinics in California that provide medical services for problems related to the late effects of poliomyelitis. The clinic provides evaluation and treatment of problems secondary to paralytic polio, diagnosis of post-polio syndrome, assessment of musculoskeletal problems and functional status, and recommendations for syndrome prevention.

Not all polio survivors develop post-polio syndrome, but many experience medical problems related to the secondary effects of residual paralysis, muscle imbalance and bone and joint deformity. The clinic provides evaluation and treatment plans for all these conditions through multidisciplinary assessments by specialists in physical therapy, occupational therapy, orthotics, psychology and social work. Specialty consultants in pulmonary medicine, orthopaedic surgery and neurology are readily available.

R

Rehabilitation

UC Davis Medical Center's physical medicine and rehabilitation program provides a wide variety of rehabilitation services for adults and children on an inpatient and outpatient basis, and includes inland Northern California's only inpatient pediatric rehabilitation program. Patients are referred to our programs for rehabilitation following severe injuries and illness such as spinal cord injury, traumatic brain injury, stroke, amputation, orthopaedic injuries or neuromuscular disorders which result in a loss of function. A team of professionals is actively involved in each patient's rehabilitation, and meets to design a comprehensive program based on his or her unique needs.

The overall goal of rehabilitation is to help the patient become as independent and self-reliant as possible, and each program aspect focuses on helping the patient function more independently at home, in the community, and at work or school. Family education and training are integral parts of the process.

For more detailed information on the pediatric program, please see page 25.



S

Skull base surgery

With an international reputation for excellence in the treatment of head and neck tumors, UC Davis' skull base surgery center – which includes representatives from neurosurgery, head and neck surgery, neuro-otology, radiation and medical oncology, radiology, and pathology – is one of the largest programs of its kind in the Western U.S. The center leverages the most advanced technologies, from highly focused laser tools to miniature endoscopes to high-resolution operating microscopes.

Team members are proficient in diagnosing and treating complex skull base conditions, and several are internationally known pioneers and experts in minimally invasive surgical techniques, microvascular reconstruction, and head and neck oncology. Expertise in minimally invasive neurosurgery and stereotactic radiosurgery allows center surgeons to offer endoscopic and keyhole techniques that bypass the more invasive procedures and avoid the prolonged recoveries that can occur with some historical surgical approaches.

Sleep medicine

Our sleep medicine laboratory specializes in the evaluation of sleep disorders such as obstructive sleep apnea, restless leg syndrome, narcolepsy, sleep walking and REM sleep behavior disorder. Patients requiring a sleep study or polysomnogram are evaluated in a well-equipped laboratory that is fully accredited by the American Academy of Sleep Medicine (AASM) and staffed by registered sleep technologists. Collaborators in sleep medicine include our Departments of Neurology and Otolaryngology and Division of Pulmonary, Critical Care, and Sleep Medicine.



Sports medicine

The UC Davis sports medicine program is a one-stop center for athletes and physically active people of all ages, goals and abilities – from major-leaguers and aspiring pros to “weekend warriors” and fitness buffs. We provide access to comprehensive care to help patients meet their health and performance goals and get back on track.

Program clinicians can help enhance athletic performance and physical fitness, prevent acute and chronic injuries, and extend athletic careers. When injuries do occur, our team of nationally renowned UC Davis physiatrists, orthopaedic surgeons and therapists offer expert management of joint, muscle, bone and other problems.

Stereotactic neurosurgery

The stereotactic neurosurgery service offers care in functional neurosurgery for adult and pediatric patients with movement disorders, epilepsy and pain. We provide the most complex form of neurodiagnostic monitoring, medical and neuropsychological management, and a broad range of surgical procedures for the diagnosis and treatment of epilepsy. Services available include:

- Multidisciplinary care for movement disorders, including workup and surgical treatments in the form of deep brain stimulation (DBS) and lesioning procedures using radiosurgery and radiofrequency techniques
- Diagnostic and surgical services for the treatment of trigeminal neuralgia and complex facial pain syndromes, including decompression and both stimulation and lesioning of deep brain and spinal cord pain pathways

T

Teleneurology

Our teleneurology service offers expert neurological consultation via video for a variety of acute and inpatient-level conditions throughout California. Services are provided to clinics and hospitals via contractual agreements. The telestroke program provides 24x7/365 day a year call access to vascular neurologists for assistance with assessing symptoms, confirming diagnoses and identifying the need for interventions such as tPA administration or mechanical thrombectomy.

The teleneurology program also offers consultations for subacute stroke and for inpatient-level cases such as:

- Acute or intractable head pain
- New seizures or epilepsy
- New focal neurological deficits
- Acute changes in multiple sclerosis
- Acute or subacute progressive neuropathies

TeleEEG interpretation of routine inpatient and outpatient studies are also available. Teleneurology is part of an overall UC Davis telemedicine program that ranks among the nation's oldest and largest, with consults in more than 30 specialties.

Trigeminal neuralgia and face pain

Fellowship-trained neurosciences faculty have extensive experience in the effective management and treatment of facial pain disorders such as trigeminal neuralgia/tic douloureux, and work to minimize or relieve symptoms through anticonvulsant medications or surgeries such as microvascular decompression or gamma-knife treatment. Minimally invasive techniques such as keyhole craniotomies/expanded endonasal approaches are employed.

Traumatic brain injury

A team of neurologists and neuropsychologists evaluates and treats individuals who have experienced concussion, brain insults, or other complications from traumatic brain injury. Specialists at UC Davis' level I trauma center are highly accomplished in managing and treating emergency, subacute, and chronic aspects of all forms and severities of brain injury.



Child neurology

Our expanded pediatric neurology program serves Northern California with comprehensive, compassionate and academic-quality care. A highly experienced team of child neurology specialists are available to address the full spectrum of neurological conditions, ranging from genetic and immune-driven neuromuscular disorders to sleep problems and headaches. We fully understand the importance of working together with patients and their families to provide the most advanced and effective treatments.

Pediatric epilepsy

Our comprehensive epilepsy program is a leading program for the medical and surgical management of complex epileptic disorders. The National Association of Epilepsy Centers (NAEC) has designated UC Davis as a level 4 Comprehensive Epilepsy Program, the highest rating awarded. The program's state-of-the-art inpatient epilepsy monitoring unit includes four pediatric monitoring beds and capabilities for high-resolution MRI, single photon emission computed tomography (SPECT), and PET.

Pediatric neuromuscular disease clinics

The pediatric Muscular Dystrophy Association (MDA) clinics in the Department of Physical Medicine and Rehabilitation offer multidisciplinary care focused on: spinal muscular atrophy, congenital myopathies, congenital muscular dystrophies, limb girdle muscular dystrophies, facioscapulohumeral dystrophy, myotonic muscular dystrophy, and hereditary motor-sensory neuropathies.

Duchenne certified care center

The Departments of Physical Medicine and Rehabilitation and Pediatrics provide medical staffing for the Duchenne Certified Care Center, which is sponsored by Parent Project Muscular Dystrophy and the Muscular Dystrophy Association (MDA). The care team includes multiple physician specialists and a respiratory therapist, physical therapist, occupational therapist, social worker and dietician. The center offers multidisciplinary care that includes: neuromuscular medicine, pediatric pulmonary care, and pediatric cardiology. The center is actively involved in over 20 Duchenne clinical trials and provides genetic-based therapeutics and other novel treatment strategies.

Pediatric neurosurgery

In cooperation with pediatric experts across UC Davis Health, the pediatric neurosurgery service at UC Davis Children's Hospital provides advanced clinical care and surgical intervention for infants and children suffering from diseases that affect the developing brain, spinal cord and peripheral nervous system. Our service includes subspecialty-trained pediatric neurosurgeons.

Pediatric rehabilitation

UC Davis is currently home to the only inpatient pediatric rehabilitation program in inland Northern California. The service offers care to children and teens with a wide range of congenital and acquired neurological and musculoskeletal diseases, such as cerebral palsy, brain injury, neurologic disorders, and congenital or acquired amputation. Rehabilitation services are provided through ambulatory clinics directed by a specialist in pediatric physiatry. We provide compassionate service for patients from birth to age 21. We also collaborate with Shriners Hospitals for Children – Northern California, the California Children's Services (CCS) Medical Therapy Program, and the Muscular Dystrophy Association (MDA).

Specialty care collaborations

Pediatric neurology and neurosurgery team members also collaborate with other child specialists to diagnose, treat, and manage problems such as:

- Gait abnormalities (spasticity)
- Birth injuries (weakness of arms and legs)
- Epilepsy and movement disorders
- Brain and spinal cord tumors
- Neurovascular disorders
- Spina bifida
- Hydrocephalus
- Craniosynostosis
- Other problems and injuries of the brain, spine or nerves



Spinal dysraphism (Spina bifida, myelomeningocele, hydrocephalus)

Board-certified pediatric neurosurgeons expert in the treatment of spinal dysraphism are part of the team that provides our treatment of spina bifida, including variants such as myelomeningocele and meningocele and complicating factors such as hydrocephalus. Our pediatric rehabilitation program also includes myelomeningocele rehabilitation, with coordination of specialty care commonly needed by these patients such as orthopaedic/bracing, neurosurgical, urologic and therapy services.

Spina bifida is among the conditions diagnosed and treated through the multidisciplinary UC Davis Fetal Care and Treatment Center, which combines the expertise of nationally and internationally renowned specialists in obstetrics and gynecology, surgery and pediatrics. The center's overall on-site interventional capabilities include open fetal surgery; less-invasive procedures such as fetoscopic or fetal image-guided surgery; and surgical intervention at the time of birth (ex-utero intrapartum treatment or EXIT).



Lodging affiliations

Kiwanis Family House

Pediatric patients and their families who often travel long distances to receive treatment at UC Davis Children's Hospital may be eligible for low-cost lodging in the Kiwanis Family House. Located on the UC Davis Medical Center grounds, the facility offers individual bedrooms, kitchen facilities, bathrooms, laundry and hookups for recreational vehicles. For more information, contact UC Davis' social services staff at 916-736-0116.

Ronald McDonald House

A Ronald McDonald House is also located on UC Davis Medical Center grounds and serves as a "home away from home" for families who must travel at least 30 miles to seek medical treatment for their child. Families stay in private bedrooms and share common kitchen, living and laundry facilities at low or no cost. For more information, call 916-734-4230.



Support groups

Aphasia Communication Support Group

A therapeutic group that meets to practice communication skills in a supportive environment. For more information or to request screening for this group, please call 916-734-3140.

Brain Aneurysm Support Group

This monthly Sacramento-area brain aneurysm support group helps patients understand their treatment options via hospital visitation, telephone support and monthly meetings that connect new patients with others undergoing similar experiences. This group is affiliated with the Brain Aneurysm Foundation and The Aneurysm and Arteriovenous Malformation Foundation (TAAF). For more information, please call 916-734-3081.

Sacramento Area Brain Tumor Support Group

This group provides emotional support and educational programs to tumor patients and their families and friends. This group is affiliated with the National Brain Tumor Foundation. For more information, please call 916-734-3081.

Post-DBS Support Group

This support and education group is open to patients, caregivers and family who have or are considering a Deep Brain Stimulator (DBS) for a movement disorder such as

Parkinson's disease, tremor or dystonia. The group features monthly topics and guest speakers and is jointly facilitated by DBS nurse practitioners from UC Davis and other health systems. For more information, please call 916-734-6282.

Developmental disabilities resources

The UC Davis MIND Institute and Center for Excellence in Developmental Disabilities collaborate to offer comprehensive resources relating to neurodevelopmental disorders and other conditions. The MIND Institute Resource Center is located at the MIND Institute in Sacramento; call 916-703-0336 for hours and details. Detailed resources are also available on the "Resources" tab at mindinstitute.ucdavis.edu.

Huntington's Disease Support Group

This group is for individuals with Huntington's disease and their families. It is affiliated with the Huntington's Disease Society of America. For more information, please call 916-734-6277.

Spinal Cord Injury Support Group

An ongoing support and education group for individuals with any level of spinal cord injury, and their caregivers. For more information, please call 916-734-3467.

REFERRAL AND CONTACT INFORMATION

Physician Referral and Transfer Center:

800-4-UCDAVIS (800-482-3284)

Children's Hospital/pediatric services,
24-hour referrals and transfers:

800-UCD-4-KIDS (800-823-4543)



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17-0300 (6/18)