Introduction to Maternal and Children’s Health Services for our community partners
We believe the health of a child begins with the health of the mother. That’s why we offer a full range of obstetric and maternal health care services for planning and expectant mothers, in addition to routine and specialty care for their new arrivals from infancy through adulthood.

- Our physicians, nurses, and other specialists have unique expertise in caring for mothers, infants and children, including delivery for both low- and high-risk pregnancies — including multiples.

- Mothers who deliver at UC Davis Children’s Hospital also have access to the most highly-trained neonatal specialists, ready to help ensure the optimal health of both mother and child.

- Our services also include the region’s only
  - Level I ACS-verified children's surgery center (highest level);
  - Level IV neonatal intensive care unit (highest level);
  - Level I pediatric trauma center (highest level);
  - Fetal care and treatment center; and
  - Dedicated pediatric home dialysis program.

These are just some of the ways UC Davis Children’s Hospital helps children attain their full potential. Learn more in this booklet or visit children.ucdavis.edu.

UC Davis Children’s Hospital is recognized among the nation’s top hospitals by U.S. News & World Report. For 2018–19 UC Davis Children’s Hospital is ranked among the nation’s best in neonatology, nephrology, pulmonology, orthopedics* and urology.*

(*Together with Shriners Hospitals for Children – Northern California.)
UC Davis Children’s Hospital is the tertiary and quaternary care pediatric hospital for children throughout Northern California.
UC Davis OB/GYN physicians offer routine women’s health reproductive health services as well as high-quality maternity care. A patient’s relationship with a UC Davis OB/GYN physician also includes access to specialists in perinatology/high-risk obstetrics, infertility, maternal-fetal medicine, fetal care, urogynecology, family planning and gynecologic oncology, as needed.
Transfer services and high-risk pregnancies

UC Davis provides around-the-clock rapid referral and transfer services for high-risk OB/GYN patients who require the expertise of a leading academic health center. We provide 24-hour consultation and expert management of pregnancy complications, including:

- Health conditions in the mother such as high blood pressure, diabetes, cancer, heart disease, autoimmune disorders, kidney disease, history of an organ transplant and seizure disorders
- On-site medical and surgical care of complex maternal conditions with the availability of a critical care unit or ICU beds
- Recurrent miscarriage or pregnancy loss
- Complications with prior pregnancies
- Possibility of pre-term delivery
- Any issues with multiple births
- Birth defects (genetic or anatomic)
- Problems with fetal growth, the uterus or placenta
- Placenta accreta spectrum and preterm rupture of membranes
Maternity Services

Our maternity services are provided by highly qualified board-certified health professionals who are trained in the most advanced prenatal and perinatal care.

Highly skilled maternity nurses at the Magnet®-designated medical center have received extra training in caring for routine and high-risk pregnancies and newborn infants.
**Birthing suites and Women’s Pavilion**

When it’s time to give birth, most women prefer a comfortable, home-like setting, with immediate access to specialized neonatal care, if necessary. Our specially-appointed birthing suites are large rooms with chairs and showers. Each room has a sleeper couch so a family member can comfortably spend the night.

Patients who have already delivered may be transferred to our Women’s Pavilion. This unit was newly refreshed and updated to help create a more restful and supportive environment.

**Obstetric pain management**

UC Davis has an anesthesiologist available 24 hours a day. Expectant mothers are provided with information about their pain relief and anesthetic options. Options include epidural, nitrous oxide, IV medication and support for women who prefer non-medicated labor. Some women, especially those with high-risk pregnancies, may be seen by the obstetric anesthesia service prior to expected delivery to help determine the safest and most effective plan. This service is available to women who are pregnant or who have recently delivered, and who desire or require anesthesia or analgesia.

**Rooming-in**

Mothers are encouraged to keep their baby in the room with them during their hospital stay (“rooming-in”). Rooming-in offers time for mother and baby to bond and develop skills such as breastfeeding (if possible), bathing and general care of the newborn. Specially trained nurses are available to assist families in the care of their newborn.
Breastfeeding
While we know that breast milk is best for babies, for many first-time mothers breastfeeding can be a challenging skill that can take time to learn. All UC Davis perinatal nurses are trained to teach new mothers how to breastfeed. Certified lactation consultants are also available to provide additional guidance for mothers who have questions or concerns — and both consultants and nurses can teach new mothers how to pump or hand-express breast milk. Mothers and family also have access to a variety of postpartum breastfeeding resources including telephone support, classes and support groups.

Cord blood donation
As the founding administrator for California’s Umbilical Cord Blood Collection Program, we aim to capture the rich genetic diversity of Californians by collecting donated cord blood units for use in potentially lifesaving therapies and research. Through the program, mothers of newborns are able to voluntarily donate their babies’ umbilical cord blood and have it publicly banked so it is available to anyone for lifesaving transplantations.

Cord blood is a highly promising alternative to bone marrow transplantation for treating a host of diseases such as anemia, leukemia, lymphoma, sickle cell disease and severe combined immunodeficiency — and is easier to match across donor and recipient. Public cord blood donation is free and painless to mother and child. We also support private cord blood banking, with personnel trained to assist with the collection.

Family planning
The physicians, nurses and staff at the UC Davis Family Planning Center believe every woman deserves nonjudgmental, confidential and compassionate attention to her unique needs throughout her reproductive life. We provide counseling and care surrounding birth control options, family planning goals, medical conditions, elective abortion, miscarriage or fetal death, and termination of pregnancy due to medical reasons.
We offer a full range of contraceptive care, including reversible contraception and permanent sterilization. Short-term contraceptive options include the oral contraceptive pill, vaginal ring, patch and emergency contraception. Long-term contraceptive options include intrauterine device (IUD) and implants.

**Perinatal and pediatric social work**

The perinatal and pediatric social work team’s goal is to ascertain that every child and every family is supported with competent compassionate care. Medical conditions, uncertainty and socio-cultural dynamics can challenge a family’s ability to function and cope in helpful ways. For the child-bearer, this can impact their ability to enjoy pregnancy and give birth to a child who can thrive. For hospitalized children and their families, this can significantly strain finances, support systems and cause intense feelings of anger, fear, sadness and even guilt.

Perinatal and pediatric social workers support child-bearers, children and families as they navigate medical challenges, process complex information, adjust to the “new normal,” strengthen natural supports and access community supports. Perinatal and pediatric social workers help with planning and nurture hope as families move toward their future. Interventions include:

- Working with the child-bearer, child and family to assess their strengths and challenges
- Improving the effects of psychosocial and medical challenges by working directly with the primary child-bearer, child and family, while also assisting them to access supportive services where needed
- Assisting in creating healthy and nurturing caregiver-child relationships
- Advocating for the child-bearer, child and family within the health care setting and in the community
Fetal Care and Treatment Center

We offer the first comprehensive multidisciplinary fetal diagnosis and therapy center in inland Northern California. The UC Davis Fetal Care and Treatment Center includes nationally and internationally renowned physicians who bring leadership and expertise in fetal diagnostics and intervention, including both surgical and nonsurgical therapies.
The UC Davis Fetal Care and Treatment Center offers a comprehensive range of consultative, diagnostic, and surgical services:

**Consultative services**
- Genetic counseling
- Fetal and neonatal surgical consults
- High-risk prenatal care
- High-risk delivery planning

**Diagnostic services**
- Prenatal testing
- Fetal echocardiogram
- High-resolution ultrasound
- Fetal MRI
- Amniocentesis and Chorionic Villi Sampling (CVS)

**Fetal Conditions Treated**
- Spina Bifida (Myelomenigocele)
- Twin to Twin Transfusion Syndrome (TTTS)
- Amniotic Band Syndrome
- Obstructing Neck Masses and other Tumors
- Fetal Cardiac Obstruction
- Sacrococcygeal teratomas and others

**Types of surgeries and interventions**
All types of fetal surgical and non-surgical treatments are performed by the experts at the UC Davis Fetal Care and Treatment Center and include:

- Open fetal surgery, which operates on mother and fetus via an open incision. This method is used before birth for conditions such as spina bifida, and for specific tumors.
- Fetoscopic surgery, a minimally invasive approach. For example, the team can employ an endoscope with a laser to treat twin-to-twin transfusion syndrome.
- Image-guided needle based surgery uses ultrasound to guide interventions and cell based therapies.
- Ex-utero intrapartum treatment (EXIT) procedures, are surgical interventions at the time of birth. The fetus, is partially removed from the mother and undergoes surgery while still attached to the placenta via the umbilical cord.
- Intrauterine Transfusions (IUT) for fetal anemia caused by maternal alloimmunization and maternal infection.
- Fetal aortic valvuloplasty and atrial septal stenting for hypoplastic left heart syndrome (HLHS)
Neonatal Intensive Care Unit

UC Davis Children’s Hospital’s Neonatal Intensive Care Unit (NICU) is a designated level IV nursery (the highest level possible) for the Sacramento region. In addition, its special care nursery is a level II-designated unit for children who are seriously ill but expected to recover more rapidly.
Two NICU teams consisting of neonatologists, neonatal nurse practitioners, neonatology fellows, pediatric residents, respiratory therapists, pediatric pharmacists, dietitians, social workers and highly skilled neonatal nurses provide expert care for newborn babies with a wide variety of challenges including:

- Extreme prematurity
- Congenital heart disease
- Congenital anomalies (birth defects)
- Genetic syndromes
- Birth asphyxia, seizures and other brain injuries or malformations
- Infectious diseases
- Metabolic diseases

The NICU at UC Davis is the only training program in the Sacramento area for future neonatologists.
Pediatric and Cardiac Intensive Care

Our pediatric intensive care unit/pediatric cardiac intensive care unit (PICU/PCICU) offers care for the most critically ill and injured children.
They partner with medical and surgical specialists, specially trained nurses, pharmacists, physical therapists and respiratory therapists to treat and care for children with conditions such as severe trauma, congenital heart disease, respiratory failure and severe infections.

Renowned for telemedicine capabilities, UC Davis physicians and nurses connect to more than 30 emergency departments and hospitals to assist other clinicians in the care of ill children.

Our board-certified critical care medicine physicians are on-site 24 hours a day, seven days a week.
Children’s Surgery Center

Children who undergo surgery at UC Davis are treated in our state-of-the-art surgery center, specifically designed for the unique needs of children. Here, renowned pediatric surgeons provide expert surgical care, treating a wide range of congenital and acquired conditions in infants, children and adolescents.
Our expanded Children’s Surgery Center marries new, technologically advanced capabilities with a bright and child-friendly design.

Our multidisciplinary surgical teams perform surgeries from basic to complex, using conventional and minimally invasive techniques in:

- Pediatric emergency and trauma surgery
- Neonatal surgery
- Pediatric cardiac surgery
- Pediatric cancer surgery of all types
- Fetal surgery
- Pediatric orthopaedics
- Pediatric ophthalmology
- Pediatric urology
- Pediatric neurosurgery
- Pediatric otolaryngology
- Craniofacial and plastic surgery
- Gastrointestinal (GI) surgery

UC Davis Children’s Hospital is a Level I Children’s Surgery Center, verified by the American College of Surgeons (ACS). It was the first Children’s Hospital verified on the West Coast, and the only Verified Children’s Surgery Center in California to date. Verification signifies that we have 24/7 availability of children’s surgical specialists and resources equivalent to the highest level of children’s hospitals. As we continue to elevate our pediatric surgical services, our newly expanded Children’s Surgery Center gives us the ability to serve more children with enhanced resources. Opened in late 2018, the 20,000-square-foot space marries new, technologically advanced capabilities with a child-friendly design.

Facilities include a brightly colored waiting room with play area, six specialty pediatric operating rooms, including a cardiothoracic operating room, a complex surgery operating room and a procedure room. There are 24 pre-op and post-op rooms.
Nursing Care

The nursing staff at UC Davis is devoted to providing — superior, collaborative and evidence-based care for children and their families. Our nurses are all registered nurses (RN) and more than 40 percent are specialty-certified.
We are proud to maintain a nurse-patient ratio that meets or exceeds state requirements. UC Davis Medical Center has been granted Magnet® nursing recognition by the American Nurses Credentialing Center (ANCC). The designation is the nation’s highest form of recognition for nursing excellence, and a benchmark for the quality of care patients receive.

Here, children are assigned a primary nurse who is responsible for coordinating their care. This relationship ensures better continuity of care and communication with family members, and helps each child feel more secure during their hospital stay. We are proud to maintain a nurse-patient ratio that meets or exceeds state requirements — each nurse cares for no more than three or four patients on the general inpatient floors and only one or two patients in the intensive care units.

UC Davis Children’s Hospital has long been identified as a U.S. center of nursing excellence devoted to optimal, collaborative and evidence-based care. For more than 20 years, we have been using the primary nursing model to enhance care and comfort for our pediatric patients.

Advanced education and training also continue to be hallmarks of our all-R.N. pediatric nursing staff. Overall, nearly 85 percent of UC Davis registered nurses hold a bachelor’s degree of nursing or higher, and 14 percent hold an advanced degree.
Other Pediatric Specialty Care

UC Davis Children’s Hospital offers a comprehensive range of newborn and pediatric specialty care services. Our distinctive programs also include the following specialty care and services.
Pediatric specialties

Allergy, Immunology and Rheumatology

We have the first academic program with a focus on pediatric allergy, immunology and rheumatology in the Sacramento region. We offer comprehensive inpatient and outpatient evaluations and follow-up for various disorders of allergy and immune regulation in children. Our physicians are regularly sought for their consultation services by health care professionals in Northern California and Nevada.

Our allergy team offers evaluations and management of various allergic disorders, including seasonal allergies, food allergies, drug allergies, allergic asthma, stinging insect allergy and urticaria/anaphylaxis. The team utilizes skin prick testing, spirometry, laboratory analysis and family education/training to further aid in the development of their treatment plans. Food and drug challenge clinics are conducted weekly in order to help delineate the establishment of tolerance to these exposures.

Our immunology service sees patients and offers treatment recommendations for children with a history of recurrent, severe, or unusual infections, recurrent fevers, low immunoglobulins, and for immune dysregulation syndromes. Because of the complexity of many of these patients, the Immunology team has established a multidisciplinary presence within the health care system. Specialty clinics are offered in conjunction with other services and include 22q11.2 deletion syndrome clinics (with Otolaryngology, Ophthalmology and Dermatology).
Genomic Medicine, Physical Therapy/Occupational Therapy, and Developmental Pediatrics), Early Onset Inflammatory Bowel Disease clinics (with GI), as well as Recalcitrant Cytopenia clinics (with Hematology). In addition, we are now a primary Newborn Screening (NBS) Immunology Center, performing evaluations of children who have a concern for an immune deficiency based on their newborn screening results.

Our rheumatology service is available to evaluate and manage patients with suspected or diagnosed juvenile idiopathic arthritis, systemic lupus erythematosus, juvenile dermatomyositis, vasculitis, systemic sclerosis, and periodic fever syndromes, among other rheumatologic conditions. Comprehensive articular exams, along with laboratory analysis and imaging, are all offered in our clinics to help with treatment plans.

**Cancer and blood disorders**

The UC Davis Comprehensive Cancer Center provides diagnosis and management of all forms of cancer and blood disorders — including leukemia, lymphoma, brain and other solid tumors — in children and adolescents. We offer a collaborative network of UC Davis specialists in neuro-oncology, radiation oncology, urology, ophthalmology, otolaryngology, case management and social support services.

We also have the following intra-disciplinary clinics: Neuro-oncology clinic, Pediatric and AYA (Adolescents and Young Adults) Clinic, a Survivorship Clinic and a Cancer Predisposition Clinic.

The program is a member of the Children’s Oncology Group (COG), a federally funded cooperative dedicated to the treatment of childhood cancers.
**Cardiology**

The pediatric heart center within UC Davis Children’s Hospital offers diagnostic, therapeutic and surgical procedures for infants, children and adolescents with congenital or acquired heart defects. Our cardiologists and surgeons perform intricate corrections on newborns so that these children can lead normal, productive lives.

Our multidisciplinary team provides some of Northern California’s most sophisticated specialty and surgical expertise in:

- Pediatric cardiology
- Pediatric cardiothoracic surgery
- Cardiac catheterization and electrophysiology
- Fetal diagnosis of heart defects

**Dermatology**

Our triple board-certified (Dermatology, Pediatrics and Pediatric Dermatology) director of pediatric dermatology aims to provide the best care to her patients and their families, in a safe and compassionate environment. Here are the conditions we treat:

- Acne
- Eczema
- Hemangiomas (Birthmarks)
- Impetigo
- Moles
- Molluscum
- Psoraisis
- Warts
- Ringworm
- Rashes related to infections
- Childhood cysts and tumors
- Cradle cap
- Vitiligo
- Many other skin, hair and nail conditions
Emergency medicine

UC Davis’s dedicated pediatric emergency department provides state-of-the-art, world-class emergency medical care, 24 hours per day, seven days per week. Our board-certified physicians in pediatric emergency medicine are specialized to treat a wide range of pediatric emergency conditions ranging from bumps, bruises and fever to severe medical illness and traumatic injuries. The pediatric emergency medicine nurses are not only experienced in providing critical nursing care to our sickest patients but work alongside child life specialists to create a caring, child-friendly environment. In our state-of-the-art facility, our specially trained team and pediatric specific equipment and technologies all contribute to expert, timely and efficient care to even our smallest of patients.

UC Davis pediatric emergency department is home to the only level I pediatric trauma center in inland Northern California as verified by the American College of Surgeons and serves a region of more than 33 counties.

UC Davis pediatric emergency department is home to the only level I pediatric trauma center in inland Northern California and serves a region of more than 33 counties.
The UC Davis pediatric emergency department has been one of the leading sites in the Pediatric Emergency Care Applied Research Network (PECARN) since its inception in 2001. In this first federally-funded pediatric emergency medicine research network, UC Davis collaborates with 17 other children’s hospitals around the nation to generate high-priority evidence in the prevention and treatment of acutely ill and injured children in the emergency setting. UC Davis has led very large PECARN studies which have received substantial federal grant support and resulted in articles in leading journals such as the New England Journal of Medicine, JAMA and The Lancet, among others.

**Endocrinology**

The UC Davis Pediatric Endocrinology Group manages children with all types of disorders of the endocrine system using a multidisciplinary team approach to provide the best evaluation and treatment for children and their families. Children with type 1 and type 2 diabetes, growth disorders, precocious and delayed puberty, disorders of sexual development, as well as other complex disorders of the regulation of hormone function are offered state-of-the-art care. Besides our primary pediatric endocrine clinic, we provide care in:

- Combined Neuro-oncology clinic
- Adolescent diabetes clinic
- Gender dysphoria clinic
- Sexual differentiation clinic
Gastroenterology

The Pediatric Gastroenterology team at UC Davis consists of board-certified pediatric gastroenterologists, full-time registered nurses and full-time registered dietitians. We provide comprehensive care for newborn, infants, children and adolescents with gastrointestinal conditions to include:

- Chronic abdominal pain/irritable bowel syndrome
- Constipation and encopresis
- Allergic enteropathy
- Eosinophilic esophagitis and GI allergy
- Inflammatory bowel diseases including Crohn’s disease and ulcerative colitis
- Malabsorptive conditions
- Gastroesophageal reflux
- Liver disease
- Peptic ulcer disease
- Biliary tract disease
- Disorders of the pancreas
- Intestinal failure and short gut syndrome

We are the only Pediatric Gastroenterology Division in the Sacramento area that provides unique services to include:

- Advanced single balloon enteroscopy
- Acupuncture as a treatment adjunct particularly for chronic abdominal pain
- Multi-disciplinary clinic in allergic disease of the bowel
- Multi-disciplinary clinic for inflammatory bowel disease
- Multi-disciplinary clinic for intestinal failure
- Multi-disciplinary clinic for aerodigestive conditions
We work closely with pediatric surgeons to provide exceptional care for children with anomalies and diseases of the gastrointestinal system.

**General, Thoracic and Oncologic Surgery**

Our fellowship-trained pediatric surgeons are committed to providing comprehensive general and thoracic surgical care for infants, children, adolescents and young adults. Conditions treated include:

- Appendicitis
- Achalasia
- Adrenal tumors
- Anal fissures
- Anorectal malformations
- Biliary atresia
- Breast disorders
- Crohn's Disease and ulcerative colitis
- Esophageal disorders
- Gastroesophageal reflux
- Gallbladder disease
- Hirschsprung's Disease
- Hernias: umbilical, inguinal, etc.
- Lymphatic and vascular malformations
- Neuroblastoma
- Ovarian Masses
- Pectus Excavatum/Carinatum
- Short Bowel Syndrome
- Tumors, Wilms, Sarcoma, Teratoma, Thyroid and parathyroid

**Genomic medicine**

Genomics is the study of all genes in the genome including their interactions with each other and with environmental factors. Genomic Medicine is the use of this information to improve health outcomes. The goal of the Genomic Medicine Division at UC Davis is to help improve the quality of life for individuals, both children and adults, and family members of individuals with genetic disorders through clinical care, research, and education.

The Genomic Medicine Clinics see individuals of all ages (newborns, children and adults) for a variety of indications. If you are unsure if you/your child should be referred to our clinic, please call our office at 916-703-0317 to speak with a UC Davis Genomic Medicine team member.
Nephrology
UC Davis Children’s Hospital is home to the only pediatric nephrology and kidney transplant program in the greater Sacramento area. Here, our expert nephrologists care for children with diseases of the kidney, including acute renal failure, chronic kidney disease, hematuria, proteinuria, kidney stones and hypertension.

UC Davis recently added outpatient peritoneal dialysis for very young or small children as another element of its program, becoming the only hospital in the region to provide the treatment for patients less than 10 years of age or 44 pounds. The service trains patients and their families on home-based peritoneal dialysis and delivers follow-up care, both as a bridge to transplant. Peritoneal dialysis generally allows children to attend school and play during the day and then receive dialysis at night while asleep.

Neurology
Our pediatric neurology program provides compassionate, comprehensive care for children and adolescents with diseases of the nervous system.

Our team of specialists has advanced training to address the special needs of children with neurological disorders, and works together with patients and their families to provide the most advanced and effective treatments and technologies.

Child neurology inpatient consultation services are available to evaluate children with a wide range of acute neurological problems including:

- Seizures and epilepsy, including surgical evaluations, vagal nerve stimulation (VNS), and ketogenic diet
- Stroke
Confusional disorders (encephalopathies and encephalitis)

Neurogenic disorders such as Angelman Syndrome, Rett Syndrome, neurofibromatosis and tuberous sclerosis

Nerve and muscular disorders including myasthenia gravis and congenital myasthenia

Leukodystrophies

Neurological complications of trauma, heart, kidney or liver disease

Our technologies include a state-of-the-art continuous EEG for elective admissions of children suspected of having seizures, needing medication adjustment, or staging for epilepsy neurosurgery. We also provide video EEG monitoring, where a video recording continuously captures actual events (ictal EEG), brain function and behavior during events to help diagnose the type of event and determine the best course of treatment.

**Neurosurgery**

The neurosurgeons at UC Davis Children’s Hospital are committed to setting the standard for the surgical treatment of infants, children, and young adults with neurologic diseases. In cooperation with pediatric experts across UC Davis Health, the pediatric neurosurgery service provides advanced clinical care and surgical intervention for diseases that affect the developing brain, spinal cord and peripheral nervous system. As UC Davis Children’s Hospital is not a stand-alone facility taking care of children, the neurosurgeons are able to offer continuation of expert neurosurgical care into adulthood, resulting in a seamless transition for children with congenital disorders. They routinely
diagnose, treat, and manage the following conditions, and use state of the art technology such as intra-operative neuro-navigation, brain mapping, neuro-imaging and monitoring where indicated:

- Brain and spinal cord tumors (including endoscopic resection and minimally invasive skull base surgery)
- Spina bifida (fetal surgery and post-natal repair)
- Hydrocephalus (including endoscopic treatment)
- Craniosynostosis (endoscopic resection, cranial distraction and open cranial vault remodeling) and plagiocephaly
- Epilepsy (including stereo electroencephalography, resective surgery, responsive nerve stimulation and vagus nerve stimulation)
- Traumatic brain injury and complex craniofacial injury
- Traumatic spinal injury and spinal column tumors requiring spinal stabilization and instrumentation
- Intracranial hemorrhage of prematurity
- Neurovascular disorders (including endovascular treatment of aneurysms and arteriovenous malformations)
- Gait abnormalities and movement disorders (spasticity and dystonia)
- Peripheral nerve injuries
- Tethered Cord Syndrome
- Chiari malformation
- Arachnoid cysts and congenital intracranial anomalies

**Ophthalmology**

The Pediatric Ophthalmology Team consists of fellowship-trained pediatric ophthalmologists and a certified orthoptist. We provide comprehensive eye care for children and also for adults with eye movement disorders. These services include treatment of:

- Amblyopia
- Blocked tear ducts
- Cataract
- Conjunctival and corneal disorders
- Eye glasses
- Eye muscle exercises (orthoptics)
- Eye trauma
- Genetic eye disorders
Glaucoma
Neurological eye movement disorders
Nystagmus
Ocular injury and its sequelae
Optic nerve disease
Ptosis
Retinal disease
Strabismus
Tumors of the eye and orbit
Vision disorders

Orthopaedics

The UC Davis Pediatric Orthopaedic Surgery team offers comprehensive care for all musculoskeletal conditions in the pediatric and adolescent patient. As an essential partner in treating the acutely injured child at UC Davis Health’s level I Pediatric Trauma Center, our team provides expert care 24 hours a day, seven days a week in treating everything from simple fractures and sports injuries to complex polytraumas. In addition, we offer broad expertise in managing congenital and developmental conditions of the growing child and of the maturing adolescent. Our conditions and treatments include:

- Simple and complex fractures/pediatric orthopaedic trauma
- Sports injuries (ACL/meniscus tears, labral tears of shoulder/hip, patellar/ankle instability)
- Hip preservation (hip dysplasia, perthes, slipped capital femoral epiphysis, avascular necrosis)
- Pediatric orthopaedic oncology
- Limb deficiency/deformity and reconstruction
- Spine deformity/scoliosis
- Neuromuscular conditions/cerebral palsy
- Hand and upper extremity deformity/trauma

Our team provides expert care 24 hours a day, seven days a week in treating everything from simple fractures and sports injuries to complex polytraumas.
Otolaryngology

The UC Davis Pediatric Otolaryngology team offers comprehensive, personalized care for children with disorders of the ear, nose, throat, and related structures.

Our team of pediatric specialists excels in the management of head and neck conditions in children, including:

- Airway obstruction
- Tracheostomy management
- Obstructive sleep apnea
- Tonsil and adenoid surgery
- Hearing loss
- Cochlear implants (surgically placed devices for hearing loss)
- Ear infections
- Cholesteatoma (a growth in the middle ear)
- Microtia (a small or abnormal outer ear)
- Nasal obstruction
- Sinusitis
- Growth, tumors, or cysts in the face, head, and neck
- Vascular malformations (hemangioma, lymphatic and venous malformation, AVM)
- Facial injuries and trauma
- Cleft lip and palate
- Velopharyngeal dysfunction
- Craniosynostosis
- Craniofacial conditions such as: Pierre Robin sequence, Treacher Collins syndrome, micrognathia (small jaw)

Plastic surgery

Our pediatric plastic surgeons have extensive experience treating the full spectrum of plastic surgical problems in pediatric and adolescent patients — from the common to the extremely rare. Our surgical specialists have an exceptional breadth of expertise dedicated to meeting the needs of this unique patient population.

At UC Davis Children’s Hospital, our pediatric plastic surgery physicians and staff play vital roles in correcting facial and other disfigurements for neonates, infants, and children — along with teens and some adults — with congenital or acquired disorders. Surgeons also work with the hospital’s trauma unit to help kids
who have been victims of serious injuries. UC Davis pediatric plastic surgeons provide treatment for:

- Birth defects of the face and skull (cleft lip and palate, craniosynostosis)
- Birth defects of the ear (protruding or absent ear)
- Birth defects of the chest and limbs (misshapen breasts, webbed fingers)
- Hand surgery for such congenital conditions as absent or extra digits or for repair of tendons, nerves, and fractures
- Injuries to the head, face, hands, arms, and legs
- Nasal deformity, congenital or traumatic, and rhinoplasty
- Birthmarks and scars
- Blood vessel malformations that affect the arteries, the veins, and the lymphatics
- Breast or chest abnormalities
- Facial paralysis
- Jaw deformities
- Major skin and/or soft tissue defects
- Reconstructive surgery of burn deformities
- Tumors of the head and neck

Rehabilitation

The Pediatric Rehabilitation Program offers care to children with congenital and acquired neurological and musculoskeletal diseases or conditions, including:

- Brain injury
- Spinal cord injury
- Spina bifida
- Multiple trauma
- Cerebral palsy
- Neuromuscular disease (e.g. muscular dystrophy)
- Acquired amputations and limb deficiencies
- Peripheral nerve disorders (e.g. Guillain-Barré)
- Other musculoskeletal and neurological disorders
Consultation services are offered to inpatients and, when appropriate, children are admitted for acute inpatient rehabilitation. The UC Davis pediatric rehabilitation medicine physician services are provided through ambulatory clinics at both Shriners Hospital for Children, Northern California and UC Davis Children’s Hospital. We also collaborate with California Children’s Services (CCS) Medical Therapy Program, the Muscular Dystrophy Association (MDA) and Shriners Hospital for Children, Northern California.

Our team of physicians, nurses, therapists, social workers and psychologists work together with families and caregivers to maximize function and assist with transition to community and outpatient services.

**Pulmonology**

Our pediatric pulmonary team is a multidisciplinary team comprised of board-certified pediatric pulmonologists, a full-time clinical nurse, a nutritionist, a social worker and clinical respiratory therapists. We provide diagnosis and treatment for a wide variety of respiratory illnesses in infants, children and adolescents. We offer comprehensive outpatient and inpatient consultation and follow-up of a variety of complex respiratory conditions including asthma, chronic lung disease of prematurity, cystic fibrosis, chronic respiratory failure, rare lung diseases, neuromuscular and chest wall disorders, bronchiectasis, congenital lung anomalies, airway anomalies, technologically dependent children (children on non-invasive and invasive ventilation), as well as a range of sleep disorders.
Our comprehensive evaluation includes detailed clinical evaluation and diagnostic testing, when necessary, including diagnostic imaging, flexible bronchoscopy, pulmonary function testing, exercise testing and sleep studies. Our procedures include:

- Spirometry testing
- Exhaled nitric oxide testing
- Pulmonary function testing
- Exercise induced asthma testing
- Flexible bronchoscopy services
- Sweat testing
- Sleep lab services

**Urologic Surgery**

The practice of pediatric urology is dedicated to the care of infants and children with genitourinary problems. Pediatric urologic conditions are very different than those of adults. Specialized training and experience enables the pediatric urologist to quickly recognize and treat complex conditions while minimizing invasive tests and procedures. At UC Davis Children’s Hospital, our experience has shown that specialization not only lessens surgical complications, but also allows many children to avoid surgery. The common conditions we treat include:

- Hypospadias
- Undescended testicles
- Hernias and hydroceles
- Sexual ambiguity
- Hydronephrosis
- Vesico-ureteral reflux
- Urinary tract infections
- Pre- and postnatal kidney anomalies
- Kidney and testicular tumors
- Neurogenic bladder
- Voiding dysfunction and urodynamics
Specialty services

UC Davis Children’s Hospital offers comprehensive clinical services for children and their families. For a full list of our centers, programs and specialties, visit health.ucdavis.edu/children/clinical_services
Anesthesiology

Our specifically-trained pediatric anesthesiologists provide specialist care to all children who are undergoing scheduled and emergency care at UC Davis Children’s Hospital. The team provides the latest perioperative care to pediatric patients suffering from a wide range of medical conditions including congenital and acquired heart disease, burns, birth defects, trauma, and spinal and orthopedic conditions.

The team provides procedural sedation services in the pediatric cardiology labs, Interventional Radiology, Magnetic Resonance Imaging (MRI) Suite, Cancer Center and other hospital sites. Additionally, they provide preoperative consultative and counseling services, including pain management services, for children and their parents to prepare and ease the passage of their child through surgery and recovery.

Child life

The UC Davis Child Life and Creative Arts Therapy Department helps to minimize the anxiety of hospitalization, increase understanding and strengthen coping skills, while helping children to continue their typical growth and development. Child life specialists, along with music and art therapists and a dedicated school teacher, provide:

- Age-appropriate information, support and education to families on hospitalization, illness and injury
- Explanations of medical and surgical procedures to children using play, puppets and medical equipment
- Accompaniment of children and families to medical procedures and/or surgery to provide reassurance and emotional support
- Introduction of coping strategies to help reduce anxiety and enhance cooperation with the health care team
- Assistance with siblings to help them understand the hospital environment, coping and visitation
- Self-expression activities, such as art and music, to help the child share their thoughts and feelings
- Educational services to the hospitalized school-age child so they can continue to achieve their academic goals
- Special events and activities for children and families to help normalize the hospital environment

Play materials can also be provided at each child’s bedside and play opportunities are available in the hospital unit play spaces.

**Extracorporeal life support**

Extracorporeal life support (ECLS), a highly specialized operating room technology, completely supports the heart and lungs of patients when their own heart or lungs fail or are overtaxed due to surgery or disease. Here, a multidisciplinary team of surgeons, neonatologists, registered nurses, perfusionists, intensivists and other professionals care for children receiving ECLS. Our program is a recognized center of excellence by the national Extracorporeal Life Support Organization (ELSO).

**Pediatric hospitalists**

Hospitalist physicians focus on the general medical care of hospitalized patients. UC Davis Children’s Hospital offers a comprehensive pediatric hospitalist service, providing 24-hour in-hospital care. Our hospitalists respond to patients and their families promptly and can anticipate and facilitate care from admission through discharge. They provide continuity of care and also help patients by acting as a liaison with subspecialty and surgical consultants, discharge planners, social workers, clergy and other ancillary services.
Pediatric radiology

Pediatric Radiology offers expertise in diagnostic imaging of neonatal, infant and childhood disorders. Imaging modalities include plain film, fluoroscopy, ultrasound, CT and MRI. In addition to diagnostic expertise, the special needs of taking care of children are emphasized. Imaging is performed in a child-friendly (and parent-friendly) environment by caring personnel.

Experienced physicians and nurses provide pediatric sedation as necessary. Strict radiation attention is paid to using low-dose techniques.

Some children are able to complete MRI’s without general anesthesia. Each child is different and parents can best determine if this is a possibility. Cinemavision movie goggles are available for some types of MRIs. This distraction tool allows children to watch a DVD throughout the MRI.

Our goal is to provide outstanding imaging care for all our pediatric patients.
Telemedicine
UC Davis’ pediatric telemedicine program, the first of its kind in the United States, provides physicians and patients real-time remote consultation and evaluation through interactive, high-definition video and audio communication.

UC Davis specialists conduct an average of 2,800 inpatient and outpatient telemedicine consultations each year. Through the program, UC Davis emergency medicine physicians, neonatologists and critical care specialists connect directly to remote hospital emergency departments, newborn nurseries and inpatient wards to provide care and consultation.

Transport
The UC Davis Children’s Hospital transport team is dedicated to serving patients throughout Northern and Central California, providing specialized pediatric or neonatal critical care when a seriously injured or ill child or infant needs to be transported to a hospital that offers specialized care.

Under the direct supervision of a UC Davis physician trained and experienced in pediatric or neonatal critical care medicine, our transport team has the expertise and equipment to properly care for newborns and children in an ambulance, airplane or helicopter. Transport team members provide continuing, specialized, inter-hospital critical care to ensure patients arrive safely at UC Davis Children’s Hospital, 24 hours a day, seven days a week.
Support Resources

UC Davis Children’s Hospital connects patients and their families to a myriad of support groups and community resources to help continue their healing outside the hospital. A current list of support services and contact information can be found on our website under the Patients & Visitors menu at children.ucdavis.edu.
Affiliations for family support

Kiwanis Family House
The Kiwanis Family House offers inexpensive accommodations to family members of children who are in the hospital. Accommodations include individual bedrooms, kitchen facilities, bathrooms, laundry, pay phone and hookups for recreational vehicles. For more information, contact UC Davis’ social services at 916-736-0116.

Ronald McDonald House
At the Ronald McDonald House, families can stay in private bedrooms and share common kitchen, living and laundry facilities at low or no cost. An hourly shuttle from UC Davis Children’s Hospital is provided. Guests come to the Ronald McDonald House through a referral system. Referrals are accepted from UC Davis’ social services at 916-736-0116.

Quality and safety
We demonstrate an extraordinary commitment to providing safe, high-quality care and a willingness to be measured against the highest standards of performance. UC Davis Medical Center is accredited by The Joint Commission, consistently ranks among America’s top hospitals in quality and service.