

Pediatric Orthopaedics



The Division of Pediatric Orthopaedics at Cincinnati Children's Hospital Medical Center provides the complete spectrum of care for pediatric orthopaedic conditions and injuries. We see more than 42,000 visits annually for conditions such as scoliosis, hip dysplasia, brachial plexus injuries, hand and upper extremity disorders, and bone and soft tissue tumors.

CONTACT US

For patient referrals and non-urgent consultation during business hours, contact the program directly at:

Phone: **513-803-ORTHO (6784)**
Email: ortho@cchmc.org

International

Phone: **+1-513-636-3100**
international@cchmc.org

www.cincinnatichildrens.org

DIVISION LEADERSHIP

James McCarthy, MD
Director, Pediatric Orthopaedic Surgery

FULL SPECTRUM OF CONDITIONS TREATED

The team often collaborates with other subspecialists at Cincinnati Children's to provide comprehensive diagnosis and treatment of pediatric orthopaedic disorders and injuries, such as:

- Brachial plexus injuries
- Club foot
- Neurofibromatosis
- Spine conditions
 - Scoliosis
 - Congenital scoliosis
 - Early-onset scoliosis
 - Neuromuscular scoliosis
- Hand and upper extremity disorders and injuries
 - Trauma (level one trauma center)
 - Tendon, nerve and vascular injuries
 - Congenital deformities
 - Upper and lower post traumatic deformities
- Cerebral Palsy
- Neuromuscular conditions
- Gait disorders
- Hip disorders
 - Avascular necrosis
 - Chondrolysis
 - Coxa vara
 - Developmental dysplasia of the hip (DDH)
 - Femoroacetabular impingement (FAI)
 - Legg-Calvé-Perthes Disease
 - Slipped Capital Femoral Epiphysis (SCFE)
- Limb lengthening and reconstruction
 - Blount's disorder
 - Leg length inequality
 - Congenital fibular deficiency
 - Congenital femoral deficiency
- Sarcomas and other bony tumors
- Sports-related conditions and injuries
 - ACL surgery in children/adolescents with open growth plates
 - Patella dislocation repair
 - Osteochondritis Dissecans repair
 - Meniscal tear repair
 - Shoulder dislocation arthroscopic repair
- Skeletal dysplasias



Cincinnati Children's is ranked #5 in Orthopaedics.

4,600+

Patients seen annually at the Crawford Spine Center, one of the nation's largest and most technically advanced centers for spine care

14

Dedicated pediatric orthopaedic providers

COMMITMENT TO QUALITY IMPROVEMENT

We have a robust portfolio of quality improvement projects, including:

- Optimizing the care of patients with osteoarticular infections
- Improving the experience of patients and caregivers with orthopaedic concerns
- Standardizing the management of specific fractures

Other recent quality improvements include:

- Decreasing management variability of patients with supracondylar fractures
- Sustaining a decreased post-operative length of stay for all patients undergoing spinal fusion surgery

For urgent issues, or to speak with the specialist on call 24/7, call the Physician Priority Link® at 1-888-987-7997.

For international inquiries, call +1-513-636-3100 or email international@cchmc.org.

SPECIALTY PROGRAMS

Our physicians specialize in a broad scope of surgical and non-surgical treatments, tailored to each child.

The **Brachial Plexus Center** offers a team approach to diagnosis and treatment. Our team of five surgeons, a rehabilitation physician, therapist, nurse and social worker provide evidence-based care, pursuing the treatment techniques proven most effective in improving patient outcomes.

The **Crawford Spine Center** provides a complete range of treatments for infants and young adults, including non-surgical approaches using the latest technology and minimally invasive techniques.

The **Cerebral Palsy Program** brings together clinicians from orthopaedics, neurosurgery and rehabilitation to deliver quality, advanced, family-centered care. Our team uses state-of-the-art technologies to treat children with cerebral palsy like 3-D motion capture system to assess gait.

The **Hand and Upper Extremity Center** offers surgical and non-surgical treatment for conditions involving the hand and upper arm, including fractures as well as tendon, nerve and vascular injuries.

The **Hip Preservation Program's** orthopaedic surgery team provides comprehensive care for hip disorders, including developmental dysplasia and hip preservation techniques that can delay or prevent the need for total hip replacement. Expert surgical approaches include an emphasis on Legg-Calvé-Perthes, slipped capital femoral epiphysis and hip preservation techniques, including hip arthroscopy, surgical dislocation and osteotomies.

The **Limb Lengthening and Reconstruction Center** provides comprehensive care for newborns, infants, children and adolescents with congenital or acquired limb deformity or limb length issues of the extremities.

The **Orthopaedics Sports Center** offers sports medicine services, including operative and non-operative treatment of sports-related conditions and injuries in ligaments or cartilage of the knee, shoulder, hip, ankle or elbow joint.

The **Sarcoma Program** combines the strengths of both our highly ranked pediatric orthopaedic program and pediatric cancer program to deliver integrated treatment that maximizes quality of life for patients with tumors of the bone, soft tissue and spine. We offer the most advanced techniques in limb-sparing surgery, limb lengthening and reconstruction, and minimally invasive procedures.

CURRENT RESEARCH

We are involved in basic, clinical and translational research to help advance the treatment of a variety of orthopaedic conditions. We are conducting research in the following areas:

- Improving diagnosis of athletes at risk for knee injuries, as well as at designing and testing training programs for reducing those injury risks
- New techniques for spine and limb deformity correction such as fusion-less scoliosis treatment and motorized intramedullary nails
- Studying the neurological control of muscle growth and development in order to prevent secondary musculoskeletal problems resulting from childhood nerve disorders such as neonatal brachial plexus injury and cerebral palsy
- Motion analysis laboratory assesses upper and lower extremity movement
- Development of 3D printed scaffolds containing decellularized extracellular matrix to treat large cartilage defects