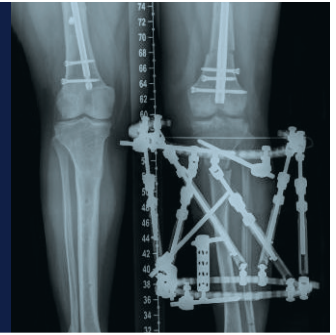
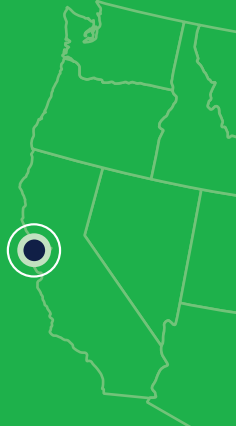


Pediatric Limb Lengthening and Complex Reconstruction

ucsfbenioffchildrens.org/limb-lengthening



Only multispecialty pediatric limb-lengthening program on the West Coast



150+

surgical procedures annually



2,000+

outpatient visits annually



17,000

square-foot inpatient rehab center

MULTIDISCIPLINARY TEAM HELPS CHILDREN MAXIMIZE MOBILITY, FUNCTION AND COMFORT

The Pediatric Limb Lengthening and Complex Reconstruction Center provides comprehensive care for children and young adults who have a broad range of limb-length differences or deformities of the upper and lower extremities. Our internationally renowned team has the training and experience to use advanced techniques that enable patients to reach their highest levels of function and mobility in a safe and efficient manner.

CONDITIONS TREATED

Our team members are experts in diagnosing and caring for pediatric patients with all types of extremity disorders, including:

- Congenital limb deficiencies and differences
- Developmental conditions including Blount's disease and congenital pseudoarthrosis of the tibia
- Acquired limb differences related to traumatic injuries, infections and tumors
- Bone loss resulting from injury, tumor, infection or surgery
- Limb differences linked to complex syndromes
- Limb-length discrepancies (upper and lower limbs)
- Skeletal dysplasia
- Pediatric hip disorders
- Early stages of hip, knee and ankle arthritis

[MORE →](#)

INFORMATION / REFERRALS

- **PHONE** (877) 822-4453 (877-UC-CHILD)
- **EMAIL** limbdifferences@ucsf.edu

Pediatric Limb Lengthening and Complex Reconstruction

SERVICES OFFERED

Surgical Techniques

- Minimally invasive surgery, including osteotomies
- Remote-controlled magnetic lengthening nails
- Computerized hexapod external fixators (orthopaedic system that corrects deformities on multiple planes)
- Guided growth procedures
- Masquelet technique (a combination of a temporary spacer and bone grafting)
- Joint preservation surgery
- Amputation reconstruction
- Microvascular surgery and tissue transfer
- Osseointegration
- Patient-specific instrumentation based on 3D modeling

Non-Surgical Modalities

- Advanced onsite inpatient and outpatient physical therapy
- Customized orthotics and prosthetics
- Electromyography
- Onsite 3D-printed patient-specific bone modeling

WHY REFER TO UCSF?

- Care available at UCSF Benioff Children's Hospitals locations in Oakland, San Francisco and Walnut Creek
- Physical and occupational therapy at all locations
- On-site orthotics and prosthetics clinic
- Ability to care for and manage international patients and their families
- Academic partnership with the Limb Lengthening and Reconstruction Society: ASAMI-North America
- Affiliated with the UCSF Institute for Global Orthopaedics and Traumatology

OUR TEAM

Sanjeev Sabharwal, MD, MPH
Program director
Pediatric orthopaedic surgeon

Jaclyn F. Hill, MD
Pediatric orthopaedic surgeon

Monica Arceneaux, RN
Nurse

Alex Fay, MD, PhD
Pediatric neurologist

Matthew Garibaldi, MS
Certified orthotist and prosthetist

Alexander Gerald, PA-C
Physician assistant

Brent Hisaka, PT, DPT
Certified physical therapist

Igor Immerman, MD
Upper extremity surgeon

Jason Jagodzinski, MD
Pediatric orthopaedic surgeon

Bamidele Kammen, MD
Pediatric radiologist

Utku Kandemir, MD, FACS
Orthopaedic trauma surgeon

Stephen Long, MD
Pediatric pain specialist

Yumi Mitsuya, MD
Pediatric rehabilitation specialist

Saam Morshed, MD, PhD, MPH
Orthopaedic trauma surgeon

Shawn K. Norris, PT
Physical therapist

Nirav Pandya, MD
Pediatric orthopaedic surgeon

Kathleen (Kaye) Rimando, RN, BSN
Nurse

Courtney Sagar, MD
Physical medicine and rehabilitation specialist

Kathryn (Kate) Sigford, MD
Pediatric rehabilitation specialist

Chau Tai, MD
Plastic and reconstructive surgeon

Melissa N. Zimel, MD
Orthopaedic oncologist and surgeon

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