

**John C. Wilson Jr.
Motion Analysis Laboratory
(Motion Lab):**

The Motion Lab at the Childrens Orthopaedic Center is one of the most advanced facilities of its kind in the United States. It is the only gait laboratory in the Los Angeles area specializing in pediatrics. The mission of the motion lab is to help improve the walking ability of children with complex walking disorders through comprehensive clinical and technological evaluation. State-of-the-art technology, similar to that used in computer animation, is used to assess joint movements and muscle activity at various points in the child's walking cycle. This three-dimensional computerized motion analysis enables the physician to see the motion, forces and muscle activity that occur at all joints simultaneously as a child walks. The impact of these data is dramatic. Pre-operative motion analysis results in changes to surgical plans for nearly 90 percent of children seen. The Motion Laboratory's experienced staff members are recognized throughout the United States as experts in the fields of motion analysis and cerebral palsy. Fulfilling the vision of Vernon T. Tolo, MD, the lab opened in 1992. Robert Kay, MD, has served as the medical director of the lab since 1997.

How to contact us:

For more information, please call for an appointment or a consultation with one of our highly trained caregivers. We have locations throughout Greater Los Angeles to serve you and your child.

**Main Office: (323) 361-2142
Motion Lab: (323) 361-4120**

**www.ChildrensHospitalLA.org/
TheChildrensOrthopaedicCenter**



**Childrens
Orthopaedic
Center**

Center of Excellence

David L. Skaggs, MD, Chief

The Childrens Orthopaedic Center's work is so influential it has truly changed the way pediatric orthopaedics is practiced.

For more information, please call for an appointment or a consultation with one of our highly-trained caregivers. We have locations throughout Greater Los Angeles to serve you and your child.

Childrens Orthopaedic Center locations:

Childrens Orthopaedic Center—Los Angeles (main office)
Childrens Hospital Los Angeles Campus, Outpatient Tower
4650 West Sunset Boulevard, Los Angeles, CA 90027
(323) 361-2142 (Main Office)

Childrens Sports Medicine Program
Santa Monica Orthopaedic Group with
Childrens Hospital Los Angeles
2020 Santa Monica Boulevard, Suite 400
Santa Monica, CA 90404 (310) 315-2041

Childrens Orthopaedic Center—Arcadia
51 North Fifth Avenue, Suite 301, Arcadia, CA 91006
(626) 357-9863

Childrens Orthopaedic Center—Beverly Hills
120 South Spalding Drive, Suite 401, Beverly Hills, CA 90212
(310) 659-2910

Childrens Orthopaedic Center—Koreatown, Los Angeles
4220 West Third Street, Suite 208, Los Angeles, CA 90020
(213) 386-3554

Childrens Orthopaedic Center—Tarzana-Encino
5525 Etiwanda Avenue, Suite 311, Encino, CA 91316
(818) 788-2981



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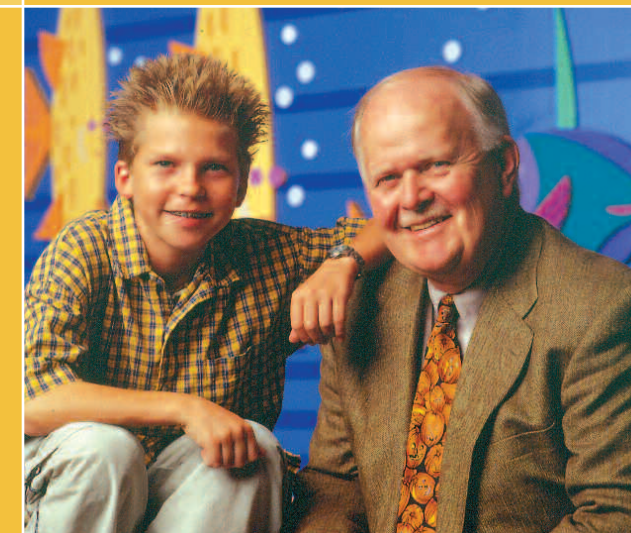


David L. Skaggs, MD
Chief, Orthopaedic Surgery
at Childrens Hospital Los Angeles

*World-class pediatric orthopaedic
care for you and your family*

Six locations serving Greater Los Angeles

Main Office:
Telephone (323) 361-2142
Fax (323) 361-1310



Vernon T. Tolo, MD, pictured above, is Chief Emeritus and founder of the Childrens Orthopaedic Center (1987). Dr. Tolo continues to have an active and thriving practice at Childrens Hospital Los Angeles.

**Childrens Orthopaedic Center:
Dedicated to children
and adolescents**

The Childrens Orthopaedic Center provides full service, family-centered care, with parents integrally involved in its multifaceted, state-of-the-art approach to treatment. As a designated "Center of Excellence," the Childrens Orthopaedic Center (COC) provided treatment for children in more than 18,000 outpatient visits last year alone and performed more than 1,800 operative procedures in the areas of fracture care, sports medicine, spine disorders, pediatric oncology, joint care and cerebral palsy, among others. As one of the largest and most comprehensive programs dedicated to children and adolescents nationally, the Center provides the services of orthopaedic surgeons along with nurse specialists, orthopaedic oncologists, rehabilitation specialists, prosthetists, physical therapists and biomechanical engineers, in evaluating and treating childhood problems affecting bones, muscles and joints. Among these are congenital and developmental abnormalities of the arms, legs and spine, as well as traumatic injuries to these areas.



Vernon T. Tolo, MD

Chief Emeritus, Childrens Orthopaedic Center at Childrens Hospital Los Angeles
John C. Wilson, Jr., Professor of Orthopaedics
Keck School of Medicine of USC

Specialization

- ▶ Spinal deformity
- ▶ Cerebral palsy
- ▶ Skeletal dysplasia
- ▶ Hip disorders

Dr. Tolo has been chief of orthopaedics at Childrens Hospital Los Angeles since 1987.

Dr. Tolo received his undergraduate degree from Concordia College in Minnesota, and his medical degree from Johns Hopkins University School of Medicine. His surgical and orthopaedic training was at Johns Hopkins Hospital, where he also was chief of pediatric orthopaedics for 11 years before coming to Childrens Hospital Los Angeles. In 2001, he was selected for the Johns Hopkins Society of Scholars award.

He has been active in several orthopaedic associations. He has been president of the Pediatric Orthopaedic Society of North America, the Scoliosis Research Society, and the Orthopaedic Section of the American Academy of Pediatrics. He is past-president of the American Academy of Orthopaedic Surgeons, with a membership of over 25,000 orthopaedic surgeons.



David Skaggs, MD

Chief, Orthopaedic Surgery
at Childrens Hospital Los Angeles
Director, Scoliosis and Spinal Deformity Program
Associate Professor of Clinical Orthopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Scoliosis
- ▶ Kyphosis
- ▶ Fractures
- ▶ Spinal deformities
- ▶ Hip disorders
- ▶ Complex trauma

Dr. Skaggs received his undergraduate degree from Amherst College and his medical degree from Columbia University of Physicians and Surgeons. He is on the Board of the Pediatric Orthopaedic Society of North America, a member of the American Academy of Orthopaedic Surgeons, and the Scoliosis Research Society. Dr. Skaggs is the director of the Scoliosis and Spinal Deformity Program at Childrens Hospital Los Angeles. He is renowned for his expertise in the treatment of children with spinal deformity, and has been featured on numerous television shows, published over 70 peer-reviewed articles and three textbooks, and has served as a visiting professor at many of the nation's top medical schools.



Paul D. Choi, MD

Director, Hip Program
Assistant Professor of
Clinical Orthopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Hip disorders
- ▶ Scoliosis
- ▶ Knee disorders
- ▶ Joint Replacements
- (including Blount's disease)
- ▶ Trauma (including fractures)
- ▶ Foot disorders (including clubfeet)

Dr. Choi received his undergraduate degree from Stanford University and his medical degree from Washington University School of Medicine. He completed his residency in orthopaedic surgery at University of California, San Francisco, and a fellowship in pediatric orthopaedic surgery at Childrens Hospital Los Angeles. Dr. Choi is active in the American Academy of Orthopaedic Surgeons and the Pediatric Orthopaedic Society of North America. He also is active with Orthopaedic Overseas and has international experience in countries such as Nicaragua, South Africa and China.



Deirdre D. Ryan, MD

Director, Spina Bifida Program
Assistant Professor of
Clinical Orthopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Neuromuscular diseases
- ▶ Trauma/fractures
- (including CP and spina bifida)
- ▶ Hip disorders/DDH
- ▶ Foot disorders (including clubfeet)
- ▶ Limb length discrepancy
- ▶ Angular deformities of the lower extremities
- (including genu varum/genu valgum)

Dr. Ryan received her undergraduate degree and medical degree from Georgetown University. She completed her residency in orthopaedic surgery at Northwestern University (McGaw) Medical Center and a fellowship in pediatric orthopaedics at Childrens Hospital Los Angeles. Dr. Ryan is active in the Pediatric Orthopaedic Society of North America and the American Academy of Cerebral Palsy and Developmental Medicine. She also works in the Motion Analysis Laboratory at Childrens Hospital Los Angeles.

Dr. Myung received her undergraduate degree from Washington University in St. Louis. She received her medical degree and her Ph.D. in biochemistry from the University of Iowa. She completed an internship in internal medicine at Yale University, followed by an internship and residency in orthopaedic surgery at the University of Wisconsin. She completed her fellowship in pediatric orthopaedic surgery at Childrens Hospital Los Angeles. Dr. Myung is active in the American Academy of Orthopaedic Surgeons, the Orthopedic Research Society, and the Pediatric Orthopaedic Society of North America. She also collaborates with The Saban Research Institute of Childrens Hospital Los Angeles.



Karen S. Myung, MD, PhD

Assistant Professor of
Clinical Orthopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Scoliosis
- ▶ Hip disorders
- ▶ Foot disorders
- ▶ Spinal deformity
- ▶ Basic and clinical science research
- ▶ Trauma/fractures



Robert Kay, MD

Vice Chief, Orthopaedic Surgery
Director, Neuromuscular Program
Associate Professor of Orthopaedic Surgery
and Clinical Scholar
Keck School of Medicine of USC

Specialization

- ▶ Neuromuscular diseases (including cerebral palsy)
- ▶ Hip disorders
- ▶ Fractures
- ▶ Foot disorders (including clubfeet)

Dr. Kay received his undergraduate degree from Harvard College and his medical degree from the Johns Hopkins University School of Medicine. He completed his residency in orthopaedic surgery at University of California, Los Angeles and a fellowship in pediatric orthopaedics at Atlanta Scottish Rite Children's Medical Center. Dr. Kay has published over 80 peer-reviewed articles and numerous book chapters and is active in several organizations, including the American Academy of Orthopaedic Surgeons, Pediatric Orthopaedic Society of North America, American Academy for Cerebral Palsy and Developmental Medicine and the Gait and Clinical Movement Analysis Society. Dr. Kay has served as Medical Director of the Motion Analysis Laboratory at Childrens Hospital Los Angeles since 1997. He currently serves as Chief of Staff at Childrens Hospital Los Angeles.



Alexandre Arkader, MD

Director, Orthopaedic Oncology Program
Assistant Professor of
Clinical Orthopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Benign and Malignant Musculoskeletal Tumors
- ▶ Limb Salvage Procedures/ Joint Replacement
- ▶ Skeletal Dysplasias
- ▶ Complex Trauma/ Fractures
- ▶ Leg length discrepancy/ Angular deformities

Dr. Arkader received his medical degree from Souza Marques Medical School in Rio de Janeiro, Brazil. He trained in Orthopaedic Surgery at the National Institute of Orthopaedic and Traumatology, also in Rio de Janeiro, Brazil. Dr. Arkader completed extensive training in Pediatric Orthopaedics at The Children's Hospital of Philadelphia, as well as at The Campbell Clinic, in Memphis, Tennessee. He also received specialized training in Orthopaedic Oncology and Limb Salvage Surgery at the internationally renowned Memorial Sloan-Kettering Cancer Center in New York City. Dr. Arkader has published over 20 peer-reviewed articles and several book chapters in the past few years. He is currently the director of Orthopaedic Oncology at Childrens Hospital Los Angeles.



Jennifer Weiss, MD

Director, Sports Medicine Program
Assistant Professor of
Clinical Orthopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Sports medicine in children
- ▶ Trauma
- and adolescents
- ▶ Hip disorders
- ▶ Foot disorders (including clubfeet)

Dr. Weiss received her undergraduate degree from Williams College and her medical degree from The Mount Sinai School of Medicine. She completed her residency in orthopaedic surgery at Baylor College of Medicine in Houston, Texas, and a fellowship in pediatric orthopaedics at Childrens Hospital Los Angeles. She then took extra training at the Children's Hospital in Boston in pediatric sports medicine.

Dr. Weiss is a member of the American Academy of Orthopaedic Surgeons and the Pediatric Orthopaedic Society of North America. She is director of the Sports Medicine Program at the Childrens Orthopaedic Center.



Nina Lightdale, MD

Director, Upper Extremity Program
Assistant Professor of
Clinical Othopaedic Surgery
Keck School of Medicine of USC

Specialization

- ▶ Congenital hand reconstruction
- ▶ Upper extremity trauma disorders
- ▶ Microsurgery
- ▶ Birth brachial plexus palsy
- ▶ Cerebral palsy treatment of the upper extremity

Dr. Lightdale received her undergraduate degree from Princeton University and her medical degree from Dartmouth Medical School. She completed her residency in orthopaedic surgery at Duke University in Durham, North Carolina, and a fellowship in hand and upper extremity and microsurgery at the Hospital for Special Surgery in New York. She then took extra training at the Children's Hospital in Boston and at Texas Scottish Rite Hospital in Dallas in pediatric hand surgery.

Dr. Lightdale is an active member of the American Society for Surgery of the Hand and the California Hand Society.