



orthopedics



locally specialized, nationally recognized

Dayton Children's U.S. News & World Report ranked pediatric orthopedics division cares for infants, children and young adults with common and complex musculoskeletal injuries. The division is a destination for families seeking innovative, personalized approaches to their child's care. This is especially true for spine and scoliosis patients, where Dayton Children's is pioneering minimally invasive procedures, like ApiFix, which offer substantial benefits over traditional fusion surgery including a smaller incision and shorter hospital stay. The team at Dayton Children's has performed more ApiFix procedures

than nearly anywhere in the nation. Named on Becker's Healthcare list of "100 hospitals and health systems with great orthopedic programs," Dayton Children's orthopedics division is also recognized for its state-of-the-art gait lab, approach to ACL reconstruction and rehab, and care for congenital conditions, like clubfoot and arthrogyriposis. Additionally, the team supports the hospital's Center for the Female Athlete, the first program of its kind in the region, developed to treat female athletes holistically with the support of specialists from sports medicine, nutrition and behavioral health.

hospital highlights



For the second year in a row, Dayton Children's was recognized by Forbes as the number one employer in the state of Ohio.



Magnet designation for the third time in 2023



AMERICAN COLLEGE OF SURGEONS
Verified Trauma Center
Pediatric Level 1

American College of Surgeons Verified trauma center



American College of Surgeons verified Level I Children's Surgery Center

Talley turns to Dayton Children's for spine surgery



Born in China with several congenital anomalies, Talley Thomasson is no stranger to surgery. In fact, by the age of 10, she had already undergone 14 major surgeries.

That's why when her family learned that her curve from her congenital scoliosis had progressed enough that it required surgery, her mom, Mandi, wanted to explore every viable option before jumping right back into surgery.

After many consults, each specialist wanted a very traditional approach for Talley's spine and perform multiple surgeries over time, so they continued the search until they found Dr. Michael Albert, pediatric orthopedic surgeon.

"When we met with Dr. Albert, we finally didn't feel like just a number or just another case," said Mandi, "He was willing to think outside of the box to consider a surgery for Talley that would give her the quality of life we've been looking for. Once we saw his personalized approach for her surgery, which was medically sound and best for Talley's overall health, we knew we'd choose Dayton Children's for her care."



Scan this QR code to get Talley's full story.

team highlights

Introducing Dr. Carla Bridges



What does Dr. Bridges treat?

- Any conditions related to bones
- Common conditions like fractures to complex conditions like shoulder injuries
- Surgical care of sports injuries like ACL reconstruction

Where did Dr. Bridges train?

- Residency in orthopedics at the Medical College of Wisconsin
- Fellowship in pediatrics orthopedics from Phoenix Children's Hospital and Shriners Hospital for Children in Portland, Oregon. Plus, a second fellowship in sports medicine with the Detroit Medical Center in Detroit, Michigan.

Why does Dr. Bridges love working with kids?

- "The resilience of young patients, coupled with the opportunity to help them overcome challenges and return to their active lifestyles, makes the work fulfilling and meaningful."

Dr. Albert wins highest hospital honor



Michael Albert, MD, division chief of orthopedics was awarded the prestigious Wallace B. Taggart Award! The award is Dayton Children's highest physician honor and recognizes an exceptional commitment to Dayton Children's, patient care and the Dayton community.

The award's namesake, Dr. Wallace B. Taggart, worked alongside Dr. Alan Shafer and Elsie T. Mead to establish Dayton Children's in 1967. Dr. Taggart set a lasting standard for serving the Dayton Children's mission and delivering outstanding patient care.

This year's Taggart award recipient, Dr. Albert, has led the orthopedic department at Dayton Children's for nearly all of his 34-year career. He came to Dayton Children's on his first rotation while studying at the Wright State University Boonshoft School of Medicine. After graduation, Dr. Albert didn't hesitate to make Dayton Children's his home.

Dr. Albert embodies the Daytonian spirit of innovation with his work to create cutting-edge, minimally invasive surgery options that get kids back to school or their sport quickly while preserving their long-term growth and development. Among his

innovative achievements are pioneering the BandLoc spinal surgery and being one of 20 orthopedic surgeons approved to perform ApiFix surgery. Both procedures have greatly improved the efficiency of spinal surgeries for young patients.

While he has worked tirelessly to bring new technologies from around the world to Dayton Children's, Dr. Albert has also helped to grow the orthopedics division to include seven talented surgeons and diverse providers that have trained in strategic fellowships around the country.



Musculoskeletal research at Dayton Children's

Publications:

- Dr. Michael Albert; Novel Enhanced Recovery After Surgery Pathway Reduces Length of Stay and Postoperative Opioid Usage in AIS Patients Undergoing PSF. Published in the Cureus Journal in Sept 2023
- Dr. Lora Scott; Reduced Concussion Symptom Burden in Early Adolescent Athletes Using a Head-Neck Cooling Device. Published in the Clinical journal of sport medicine in January 2024.
- Dr. Michael Albert; The Influence of Guidelines on Opioid Prescribing Practices After Pediatric Anterior Cruciate Ligament Reconstruction. Pending publication in the Journal of Opioid Management.

Presentations at national conferences:

- Two presentations at Mid-America Orthopaedic Association
 - a. Retrospective Analysis of Opioid Prescription Patterns Following Anterior Cruciate Ligament Reconstruction in a Pediatric Population
 - b. Adolescent Idiopathic Scoliosis Treated with a Unilateral Posterior Peri-Apical Distraction Device (ApiFix): Preliminary results at one-year follow-up
- Presentation at Pediatric Orthopaedic Society of North America
 - c. Early results of a prospective outcome study on a posterior dynamic distraction device for AIS

Research studies underway at Dayton Children's:

1. Adolescent Idiopathic Spine (AIS) kinematics using gait lab motion analysis and EOS imaging pre- and post-spinal fusion and MID-C system.
2. Post-approval registry study to evaluate the continued safety and probable benefit of the MID-C system 5 years post-implantation in adolescent idiopathic scoliosis (AIS)
3. ACL Reconstruction Outcomes in Pediatric and Adolescent Patients
4. Treatment and Outcomes of Spondylolisthesis in Immature Patients
5. Retrospective Study on the Surgical Treatment of Neuromuscular Scoliosis with Severe Curves >90 Degrees
6. Virtual Reality Rehab for Spinal Cord Injuries
7. The Efficacy of Providence Nighttime Bracing in Idiopathic Juvenile Scoliosis Patients
8. De-Rotation Outcomes in Adolescent Idiopathic Scoliosis Patients Treated with a Posterior Dynamic Distraction Device (PDDD)
9. Comparison of Medial/Lateral Pinning Versus All Lateral Pinning in Treatment of Pediatric Supracondylar Humerus Fractures
10. Treatment and Complications of Both Bone Forearm Fractures in Obese vs. Non-obese Pediatric Patients



Dayton Children's Musculoskeletal team



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