The Center for Excellence in Spine Research, directed by Chief of Staff Daniel J. Sucato, M.D., M.S., provides a forum for experts from many disciplines to collaborate on the common to complex intricacies of spinal conditions.

Magnetic Spinal Rod System

The magnetic spinal rod system is designed to minimize the progression of spinal deformity in early-onset scoliosis. This revolutionary device is called the MAGnetic Expansion Control System® (MAGEC), distributed by Ellipse Technologies, Inc.

After the MAGEC rod has been implanted, a physician simply places a magnetic wand over the patient’s spine. The wand locates the magnet on the implanted rod and allows the physician to make a noninvasive adjustment. Thus, adjustments that once required a patient to undergo anesthesia, surgery and recovery are now performed in the clinic in a matter of minutes.

Scottish Rite for Children is excited to be at the forefront of institutions in the U.S. providing patients with this revolutionary, nonsurgical adjustment technology.

“We work to identify the causes of scoliosis and to develop novel strategies for treating challenging spine conditions.”

— Daniel J. Sucato, M.D., M.S.
Director of the Center for Excellence in Spine and Chief of Staff
The Center for Excellence in Hand Disorders directed by Scott Oishi, M.D., provides specialized care for children born with hand deformities through quality patient care, education and research. In addition, it provides care for acquired conditions or trauma of the hand and upper limb.

Current research focuses on determining the causes of limb differences and collaborating with the hospital’s genetic researchers to study growth abnormalities.

“We try to help the child become independent, with the self-esteem to face whatever challenges life will throw at him or her.”

— Scott Oishi, M.D.
Director of the Center for Excellence in Hand Disorders
The Center for Excellence in Hip treats thousands of patients with hip disorders every year. Our physicians are experts in the diverse treatment options of hip conditions. The hospital’s team conducts groundbreaking research to improve the standard of care for children with these conditions.

Under the direction of Harry Kim, M.D., the Center for Excellence in Hip builds upon active studies to improve the lives of children, from newborns to adolescents, with various hip conditions.

Hip Disorders Treated by Scottish Rite for Children include:

- Developmental dysplasia of the hip
- Legg-Calvé-Perthes disease
- Slipped capital femoral epiphysis
- Femoroacetabular impingement
- Other congenital and acquired hip conditions

Patient Brynn, age 15, of Midlothian
The Center for Excellence in Foot treats more than 1,000 patients with clubfeet each year and has more than 2,000 clubfoot-related clinic visits annually.

Directed by Chief Medical Officer B. Stephens Richards, M.D., the center facilitates extensive clubfoot research and other foot disorders to better understand the cause, effectiveness of nonoperative and operative treatments and the study of gait patterns.

Scottish Rite for Children provides two nonoperative treatment methods for patients with clubfeet:

- The Ponseti casting method
- The French physical therapy method of stretching, massaging and taping.

These methods have been shown to be highly effective and are most successful if the treatment begins early in the newborn period.

In the rare event that complete correction of the foot cannot be achieved or maintained by these methods, surgery is an option.
The Center for Excellence in Limb Lengthening is directed by staff orthopedist David Podeszwa, M.D., and researcher Mikhail Samchukov. Hospital physicians and researchers work collaboratively with multiple hospital departments to address the unique needs of children with limb length discrepancies.

Developing Revolutionary Limb Length Care

TL-Hex TrueLok Hexapod System™ (TL-Hex) is a hexapod external circular fixation system developed at Scottish Rite for Children and manufactured by Orthofix. It is a revolutionary device that includes advanced hardware and associated software for bone deformity correction and trauma management. The device is capable of making multiple corrections simultaneously and is used around the world.
The Center for Excellence in Sports Medicine treats sports-related orthopedic conditions and concussions, specializing in young and growing athletes. Our team offers individualized care for each patient. The center is actively involved in research, education, treatment and injury prevention.

"When treating injuries and conditions around a joint, we apply best principles for healing while remaining focused on future growth that may be affected by the current condition."

— Philip L. Wilson, M.D., Director of the Center for Excellence in Sports Medicine and Assistant Chief of Staff

Young and Growing Athletes

Growth plates are at high-risk for overuse and traumatic injuries. Treatments are managed non-operatively and surgically by our experts in pediatric sports medicine. In cases of ligament injury or cartilage conditions, rest and conservative approaches are often most effective. However when necessary, we perform complex reconstructive surgeries for growing athletes.