



Neuro-Orthopaedics Division

Keith Baldwin, MD, MPH, MSPT



Neuro-Orthopaedic Faculty



Keith Baldwin, MD, MPH, MSPT



David Spiegel, MD

The Neuro Orthopedics service at Penn is a dynamic multidisciplinary service that cares for patients with complex orthopedic needs that span multiple traditional disciplines. The service is a “lifespan” service, caring for patients across the lifespan at both the Clinical Practices of the University of Pennsylvania, and the Children’s Hospital of Philadelphia. Keith Baldwin, MD, MPH, MSPT is the chief of Neuro Orthopedics at Penn and is one of a handful of orthopedic surgeons nationally who cares for the spectrum of neuromuscular disorders in both adults and children. Dr. Baldwin works alongside Brian Fletcher, PA to provide timely care to adults who have suffered a traumatic brain injury, spinal cord injury, multiple sclerosis, cerebral palsy and a variety of other conditions. This includes direct work with well-known rehabilitation services both inside and outside the system including Penn Good Shepard partners, Moss Rehabilitation, Magee Rehabilitation, and Bryn Mawr rehabilitation among others.

On the Pediatric side, Dr. Baldwin works with David A. Spiegel MD and has recently been joined by Chrissy Goodbody, MD to address the musculoskeletal needs in children with a variety of disorders such as Cerebral Palsy, Spina Bifida, Charcot Marie Tooth, Spinal Muscular atrophy, and others. They are supported by Kathy Abel CRNP, Jessica Staschak, and Suzanne Manzoni who play a key role in serving this challenging population. Treating neuromuscular disorders is a team sport, and the neuro-orthopedic team is large. The service partners with many other services within Penn Orthopedics to provide cutting edge and high-level care by partnering in the last year with the Adult Reconstruction service, the Hand and Upper Extremity Service, the Ortho Plastics Service, the Orthopedic Oncology Service, the Sports Medicine Service and the Trauma Service. The adult Neuro Orthopedic Service was also invited

to provide clinical training to the Penn and CHOP Physiatry program

Our partnership with the Philadelphia Shrine continues to grow and evolve, with many of the Penn/CHOP neuro orthopedic services’ gait studies being performed by the Shriner’s hospital. Dr. Baldwin continued his work giving a talk at this year’s virtual Orthopedic Rehabilitation association meeting along with Emeritus Chief of Neuro Orthopedics Mary Ann Keenan who gave a wonderful tribute to Dr. Jacquelin Perry. One of our outstanding medical students Ariana Meltzer-Bruhn working with a CHOP fellow Matthew Landrum won the Vernon Nickel award at that meeting for their work on nutrition consultation in patients with neuromuscular spinal deformity. The service has also given talks or presented papers nationally and internationally including the SLAOTI virtual meeting, the AAOS, and will be presenting in the next month at the SEHA conference teaching pediatricians about gait problems in Abu Dhabi.

Penn has become the “go to” service for neuro orthopedic care for much of the surrounding area with referrals coming from all major rehabilitations in the area. The research program in neuromuscular orthopedics was busy with publications in neuromuscular spine published in the Journal of Pediatric Orthopedics, Spine Deformity, and Journal of Bone and Joint Surgery. Ongoing research in neuromuscular hip surgery, multicenter studies on neuromuscular foot reconstruction and neuromuscular spine surgery have increased the profile of the program and its thought leadership nationally. We have faced the challenges of the COVID-19 pandemic to bring care to this disadvantaged and often forgotten population of patients in a safe and effective manner, and look forward to continuing to provide them care to aid in functional recovery in the years to come.