



## POSNA 2025 Consensus-Based Clinical Research Agenda

- 1) Do surgical interventions in patients with non-ambulatory cerebral palsy (GMFCS IV and V) improve long-term quality of life and/or societal participation (e.g., neuromuscular hip, neuromuscular spine conditions)?
- 2) Do surgical interventions in patients with ambulatory cerebral palsy (GMFSC I, II, III) improve long-term quality of life and/or societal participation?
- 3) What are the surgical indications for residual dysplasia in the walking age child to optimize clinical and radiographic outcomes in adulthood?
- 4) Which diagnostic tests are most sensitive and specific for early diagnosis of pediatric musculoskeletal infection?
- 5) How do you predict which patients will have progressive scoliosis and best leverage nonoperative treatment?
- 6) How best to prevent, diagnose, and treat AVN following trauma, DDH, SCFE and non-idiopathic causes (e.g., steroids, lupus, coagulopathy)?
- 7) What are the optimal treatments for radial head, neck, and forearm fractures?
- 8) What are the long-term outcomes and indications for motion sparing procedures such as spinal tethering in idiopathic scoliosis?
- 9) What is ideal strategy for pre-operative optimization of medically complex patients?
- 10) What are the optimal treatment strategies for physeal growth disturbance (premature physeal arrest, growth disturbance, angular deformity) including surgical techniques?
- 11) What are the surgical indications for patients with osteomyelitis or septic arthritis?
- 12) What are the appropriate indications and most effective treatments for operative and nonoperative management of Perthes disease to optimize clinical and radiographic outcomes?
- 13) What is the optimal duration of orthotic use after successful Ponseti casting for clubfoot deformity?
- 14) How can we reduce inequities in clinical outcomes and access to pediatric orthopaedic care, especially when considering socioeconomic factors?
- 15) What is the appropriate treatment for displaced tibial shaft fractures in children and adolescents?
- 16) What are the optimal implementation strategies for injury prevention in children's sports, and how best to prevent and care for overuse injuries?

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