



Ankle-Foot Orthosis (AFO) Walking Study

PARTICIPANTS NEEDED

The Department of Biomechanics at UNO is conducting a research study to improve gait assessment for children with cerebral palsy (CP). Traditional marker-based motion capture systems provide valuable data but can be uncomfortable, time-consuming, and difficult for some children to tolerate, leading to missed opportunities for proper assessment. This study evaluates a new marker-free motion capture technology designed to make clinical gait analysis faster, easier, and more accessible for children with CP.

Who

- Children with CP age 4-18 years old
 - GMFCS levels 1-4
 - Can walk barefoot and with AFO

What

- 1 lab visit (Omaha)
- Complete at least 5 walking trials (5 m long)
 - Barefoot
 - With AFO

Why

- Help improve gait assessment for children with CP
- If proven effective, this new technology could make evaluations faster, easier, and more accessible

Interested?

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