



BIOMECHANICS RESEARCH BUILDING

Research Study – IRB# (0889-23-EP)

Looking for typically developing and cerebral palsy children to participate in a research study determining loading of the hands during assisted simulated gait training.

Study Information:

- The study includes one in-person visit to the Biomechanics Research Building at the University of Nebraska Omaha
- Parking is complementary directly in front of the building
- The experiment involves ten 3-minute walking trials on a treadmill at different amounts of bodyweight offloading allowed.
- We will record:
 - Movement of small markers placed on the upper and lower body.
 - Forces from hands on handrails and forces from feet while walking
- This study will take 2-3 hours to complete.

Eligibility Criteria

- CP
 - Children ages of 3-18 years
 - GMFCS Levels I-IV
 - No botulinum toxin injection or orthopedic surgeries in the past 3 months

Exclusion Criteria

- Participants outside of the enrollment age range
- Females that are currently pregnant
- Participants that cannot independently ambulate with or without an assistive device or have any upper or lower limb injuries that impair ability to walk.

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