

# Wearable Sensors to Detect Atypical Muscle Activation in Young Infants

NCT06970522

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**Status** RECRUITING  
**Sponsor** Shirley Ryan AbilityLab  
**Enrollment** 40 participants

## Key Eligibility Criteria

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### Inclusion (12)

- For Infants with low tone:
- Hospitalized in the NICU
- AND  $\geq 38$  weeks post-menstrual age
- AND abnormal normal brain imaging OR Apgar score  $\leq 7$  at five minutes with umbilical cord pH (if obtained)  $\leq 7.15$
- AND 2 or more warning signs for muscle tone or posture using the HNNE short form
- ... and 7 more (see full listing online)

### Exclusion (7)

- Infants of Both Low Tone and Typical Tone Cohorts:
- Missing or incomplete limbs (such as from amputation or congenital limb defects).
- Open wounds or skin breakdown on the limbs or torso.
- Presence of known genetic syndrome or congenital anomalies requiring surgery or affecting function
- Use of sedative medications (may include phenobarbital if level stable and therapeutic)
- ... and 2 more (see full listing online)

## Locations (2 total)

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Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois, United States  
Shirley Ryan AbilityLab, Chicago, Illinois, United States