Evaluation of Myoelectric Implantable Recording Array (MIRA) in Participants With Transradial Amputation

NCT05768802

Status	RECRUITING
Phase	Not Applicable
Sponsor	Boninger, Michael, MD
Enrollment	5 participants

Key Eligibility Criteria

Inclusion (8)

- Subjects must have a unilateral transradial amputation or wrist disarticulation.
- Subjects must demonstrate independent voluntary control of muscles in the flexor and extensor compartments of the forearm
- Subjects must be over 1-year post-amputation at time of implantation.
- Subjects must be between the ages of 22 and 70 years old. Subjects outside this age range may be at an increased surgical risk and increased risk of fatigue during prosthetic training.
- Subjects must be able to communicate with the investigators in English because of the need to follow the instructions of the study team.

... and 3 more (see full listing online)

Exclusion (21)

- Subjects must be able to function without the use of a prosthesis, or have access to assistance, for a period of 6 weeks following implantation and explantation surgeries.
- Subjects must not have visual impairment such that extended viewing of a computer monitor would be difficult even with ordinary corrective lenses.
- Subjects who have another serious disease(s) or disorder(s) that could affect their ability to participate in this study (verified during pre-op anesthesia evaluation to determine surgical risk status) will be excluded.
- Subjects must not have phantom limb pain that is self-reported to be severe (options are no pain, mild pain, moderate pain, severe pain).
- Subjects must not have any type of implantable generator such as a pacemaker, spinal cord stimulator, cochlear implant, deep brain stimulator (DBS) or DBS leads, vagus nerve stimulator, or defibrillator.

... and 16 more (see full listing online)

Locations (1 total)

University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, United States