

Acute insertion of Myomatrix injectable arrays in monkeys

Access to the set of surgical videos associated with this protocol must be requested at camber@emory.edu.

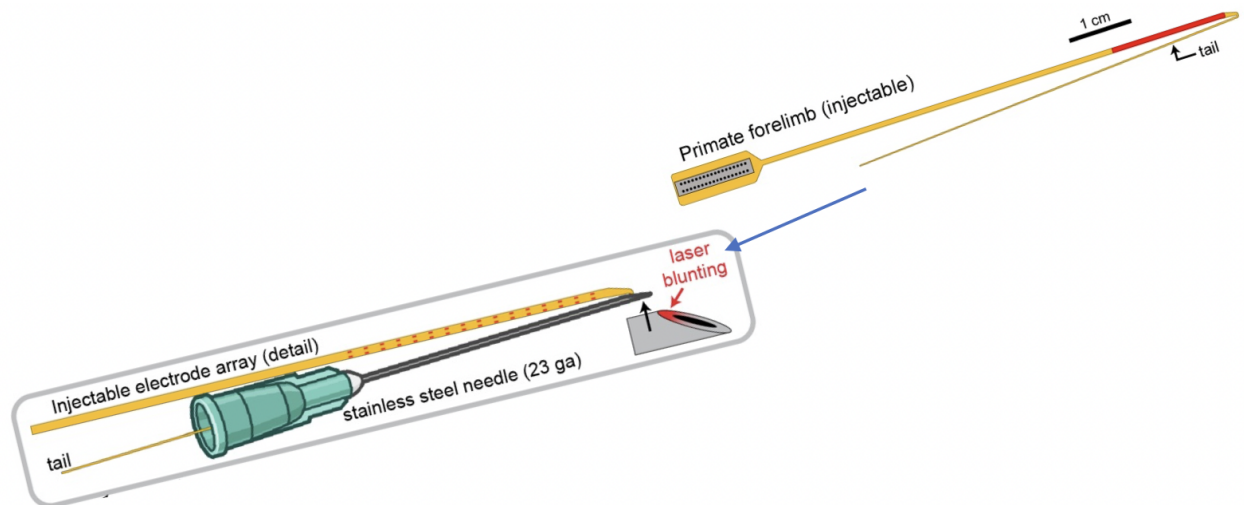
PRE-INSERTION ELECTRODE CHECK

1. Refer to [THIS DOCUMENT](#) for step-by-step instructions for impedance testing..

PREPARING THE ELECTRODE

Sterilization Procedure

1. Prepare the electrode: Load the “tail end” of the electrode into the cannula, which should be a 23-25 gauge hypodermic needle. Cap the needle and place it into a self-sealing sterilization pouch.
2. Sterilize the Pouch: Sterilize the pouch using either Ethylene Oxide Gas (EOG) or Hydrogen Peroxide (H₂O₂) Plasma gas. Follow the standard protocol provided by the facility for the available sterilization method.

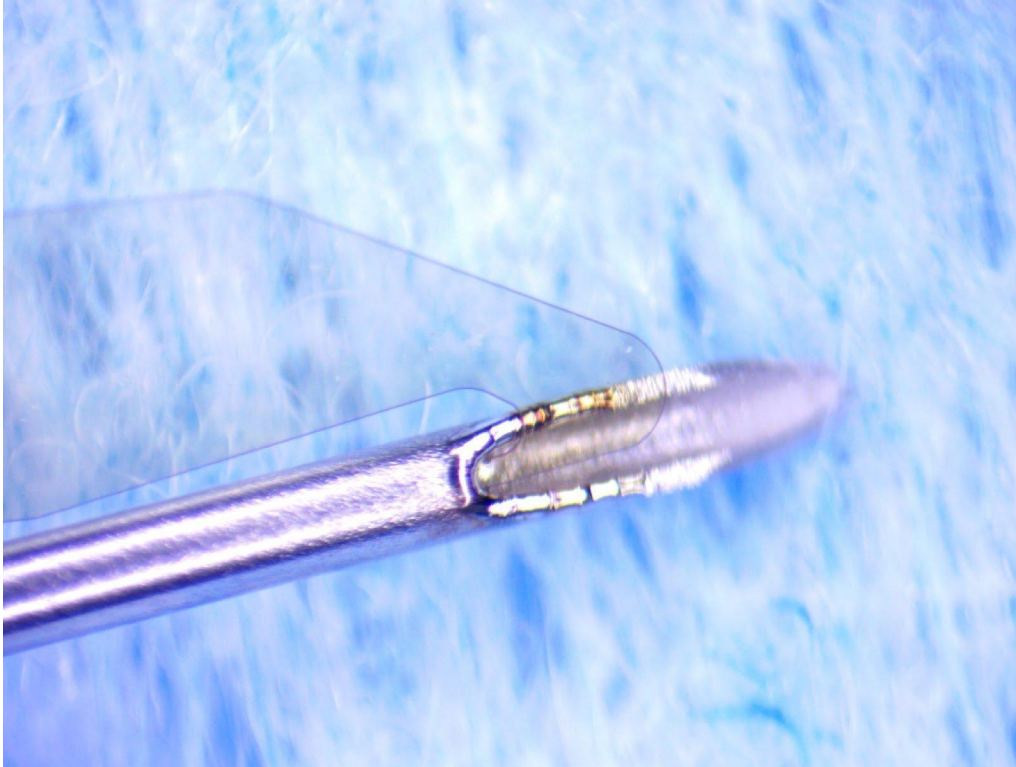


(Figure above is from Chung et al., 2023)

Prepare Animal for Procedure

1. Setting up: see video ‘1 - Preparation’
2. Inserting the tail: see video ‘2 - Tail insertion’
3. Continuing to insert the tail: see video ‘3 - Closeup electrode preparation’
4. Finish preparation: see video ‘4 - Final electrode preparation’

Last edited
09/22/2023



Properly loaded electrode

Inserting the electrode

1. Picking up the electrode: see video '5 - Insertion prep'
2. Inserting the electrode: see video '6 - Insertion demo'
3. Actual insertion in human subject: see video '7 - Insertion (human)'

Removing the electrode

1. Connecting the electrode: see video '8 - Electrode connection' and '9 - Electrode connection 2'
2. Removing the electrode: see video '10 - Electrode removal'

Cleaning the electrode

1. Rinse all parts of the electrode other than the omnetics connector with isopropyl alcohol for up to a minute to remove residue.
2. Gently rub the surface of the electrode with an alcohol-soaked q-tip if necessary to remove additional residue.
3. Leave the electrode to dry in the air.
4. If impedance measurements are low and the tail is not overly bent electrodes can be reused (typically 2-5 times) following reesterilization.