

## **PERIPHERAL NERVE SURGERY AND BRACHIAL PLEXUS SURGERY**

### **SELECTIVE MOTOR FASCICULOTOMY AND PERIPHERAL NEUROTOMY FOR SPASTICITY**

Our neurosurgery team offers an integrated approach to disorders of the peripheral nerves. Stretch injuries and trauma can affect the functioning of nerves to the arm and leg. Infants, children, and even adults can be affected. If the nerve damage alters the functioning of the muscles supplied by the nerve, surgical repair is sometimes necessary.

Brachial plexus injuries occur from stretching nerves to the arm. If recover does not occur within a certain amount of time, referral to our neurosurgery team is indicated for evaluation for surgery. Trauma can occur to any other nerve in the body secondary to fractured bones or blunt or sharp inflicted injuries. Sometimes, the functionality of a limb is in question, with spasticity affecting an arm or leg. We can augment the use of an arm or hand by reducing the tone selectively through a procedure called fasciculotomy or neurotomy. Nerve monitoring is used to determine the extent of nerve sectioning and useful function is spared. Pain is alleviated by this procedure as well. **We have the only team in Central Florida offering with novel approach to reducing tone in peripheral nerves.**

**Our team includes neurosurgeons with an interest in peripheral nerve surgery, orthopedic surgery, rehabilitation specialists (physiatry), physical and occupational therapists, and a neuro-monitoring team.** During surgery, the nerves are stimulated and responses measured to allow for optimal safety and efficacy.