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## Transfers From

Peripheral nerve graft.  
Peripheral nerve graft.  
To repair a damaged  
nerve, your surgeon  
removes a small part of  
the sural nerve in your  
leg and implants this  
nerve at the site of the  
repair. Sometimes your  
surgeon can borrow  
another working nerve  
to make an injured  
nerve work (nerve  
transfer). Nerve  
transfer.

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## Transfers From **Peripheral nerve injuries - Diagnosis and treatment - Mayo ...**

Nerve Repair and  
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E. Mackinnon. Volume  
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## Hand To Shoulder

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Hand Clinics (Volume  
32-2) (The Clinics:  
Orthopedics (Volume  
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Amy M. Moore MD  
(Author), Susan E.  
Mackinnon MD (Author)

**Nerve Repair and**



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## Transfers From Hand To Shoulder, An issue ...

In an alternative procedure known as a nerve transfer, working nerve branches from adjacent uninjured nerves are reconnected to an injured nerve close to its connection to muscle to restore function. By moving the recovering nerve endings much closer to the target muscles, the

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nerve transfers are  
able to restore function  
to muscles before the  
damage becomes  
irreversible.

## Clinics **Nerve Injury and Repair -**

### **Massachusetts General Hospital**

Radial Nerve and  
Tendon Transfers  
Tendon transfers  
involve using of a  
functional muscle  
tendon unit to replace  
a lost function. This

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loss of function can be due to a peripheral nerve injury, spinal cord injury, stroke, traumatic brain injury, cerebral palsy, or any other cause.

## **Radial Nerve and Tendon Transfers - ASSH**

Although many combinations of tendon transfers and direct nerve repair have been proposed, no clear consensus exists

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regarding indications,  
the most successful  
procedure or  
procedures, or the  
order of

procedures.<sup>2-5</sup> More  
than 90 surgical  
interventions involving

various combinations  
of nerve reconstruction  
and tendon transfers

have been described  
for restoration of hand  
function.<sup>6-11</sup> Return to

activity as tolerated  
typically occurs 6 to 12  
weeks after the tendon

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# Acces PDF Nerve Repair And

transfer procedure.<sup>12</sup>

## Hand To Shoulder

### **Systematic Review of Tendon Transfer Versus Nerve**

### **Transfer ...**

In these cases, a nerve transfer from a nearby healthy nerve is a superior option. A healthy nerve is transected and coapted to a nearby injured one. This transforms a proximal nerve injury into a distal one near the

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motor endplates,  
reducing the time  
required for re-  
innervation [ 10, 13 ].

## Clinics 1e The Nerve Transfers in the Treatment of Peripheral Nerve ...

Transferring a motor  
nerve that is close to  
the motor end plate  
shortens the distance  
for axon regeneration  
and consequently the  
time for muscle re-  
innervation. In this  
respect, nerve transfer

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reconstruction. [ 15]

This is the main  
concept in nerve  
transfer surgery.

## **Nerve transfers of the forearm and hand: a review of ...**

- If options are limited for nerve transfer (e.g., multiple nerves are injured), consider direct/interposed graft repair.
- If faster

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reinnervation is  
desired, and some loss  
of donor nerve function  
is available and  
reasonable, consider  
nerve transfer.

## Management Timeline - Peripheral Nerve Surgery

The first group was an  
incomplete recovery  
model (IRM) of the  
tibial nerve  
complemented with a  
SETS transfer from the  
peroneal nerve (SETS-



## Acces PDF Nerve Repair And

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IRM). The IRM  
consisted of tibial  
nerve transection and  
immediate repair using  
a 10mm fresh tibial  
isograft to provide  
some, but incomplete,  
nerve recovery. The 2  
control groups were  
IRM alone and SETS  
alone.

### **“Supercharge Nerve Transfer to Enhance Motor Recovery, a ...**

Neuroregeneration  
refers to the regrowth

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or repair of nervous tissues, cells or cell products. Such mechanisms may include generation of new neurons, glia, axons, myelin, or synapses.

Neuroregeneration differs between the peripheral nervous system and the central nervous system by the functional mechanisms involved, especially in the extent and speed of repair. When an

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axon is damaged, the distal segment undergoes Wallerian degeneration, losing its myelin sheath. The proximal segment can either

## **Neuroregeneration - Wikipedia**

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Edition by Amy M.

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ratings. Flip to back  
Flip to front.

## **Amazon.com: Nerve Repair and Transfers from Hand to ...**

Nerve transfers to  
restore ulnar  
sensation: technique.  
Nerve transfers to  
restore sensation of  
the ulnar nerve are  
generally performed

## Acces PDF Nerve Repair And

simultaneously with  
motor transfers.

Sensory fascicles of the  
ulnar nerve are  
dissected proximally.

Distal to the carpal  
tunnel, it is possible to  
recognize the fascicles  
directed to the third  
interdigital space.

### **Nerve transfers in distal forearm and in the hand**

Nerve transfer is a  
logical extension of the  
paradigm shift from

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nerve repair and nerve  
graft and offers a new  
rung on the  
reconstruction ladder.

## **Nerve Transfers—A Paradigm Shift in the Reconstructive**

...

Collaboration and  
Innovation are on the  
Horizon. A new chapter  
begins for the Division  
of Plastic and  
Reconstructive Surgery  
with the arrival of  
Division Chief Justin

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Sacks.

# Transfers From Hand To Shoulder

**Home | Division of  
Plastic and  
Reconstructive**

**Surgery ...**

Nerve transfers employ a similar concept to that of tendon transfers. Instead of moving muscles, a nerve that has retained volitional control is cut and sutured to a nerve that has lost control due to injury [ Fig. 2 ].

The axons from the

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source nerve then grow and supply the formerly paralyzed muscle, restoring its control.

## **The evolution of nerve transfers for spinal cord injury ...**

Nerve reconstruction is the umbrella term given to the various surgical and microsurgical techniques used to treat nerve injury.

Procedures involved in



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reconstruction may  
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include one or more of  
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the following:  
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neurolysis/nerve  
Orthopedics  
release, nerve repair,  
nerve grafts and nerve  
transfers.

## **Brachial Plexus & Traumatic Nerve Injury: Treatments | HSS**

Restoration of hand  
sensation can be  
accomplished through  
nerve transfers by  
donating non-critical

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sensory territories to  
reinnervate critical  
sensory territories that  
include 1st webspace,  
ulnar cutaneous aspect  
of the hand, and the  
posterior radial aspect  
of the hand.

## **Overview - Peripheral Nerve Surgery**

Generally, a gap  
remains between  
donor and recipient  
nerves when  
performing CC7

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transfer to repair the upper trunk. Although autografts have commonly been used to bridge this gap, their primary drawback has always been that growing axons are required to cross two anastomotic sites to reach target muscles (Bhatia et al. , 2017).

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