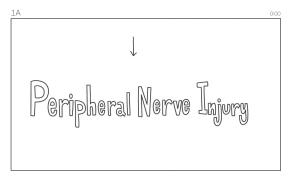
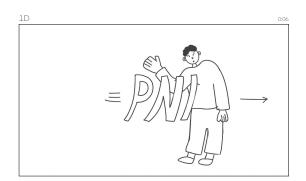
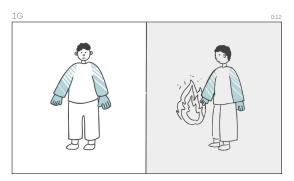
Boards: 73 | Shots: 10 | Duration: 2:25 | Aspect Ratio: 16 : 9 DRAFT: MARCH 4, 2022



A peripheral nerve injury

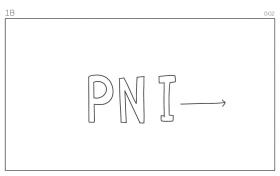
Words drop from top





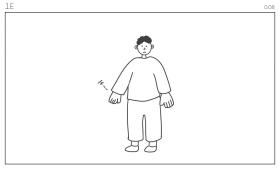
in our upper

Upper limbs briefly highlighted



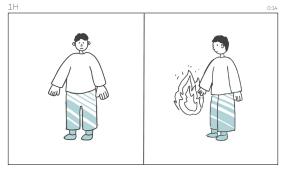
,or PNI,

"PNI" starts accelerating to right

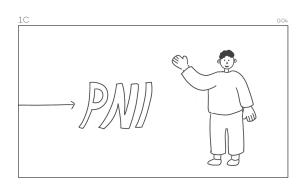


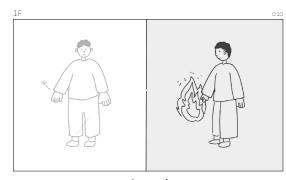
can cause a loss of muscle movement

Person #1 tries to flex his arm but cannot



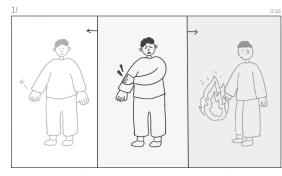
or lower limbs.





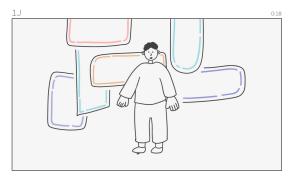
and sensation

Person #2 touches the fire but shows no pain. Right panel enters from L side of frame.



Sometimes, there can also be nerve pain.

Person #3 makes a painful expression while touching his arm. Middle panel enters from middle of L and R panel and pushes outwards.



To manage this injury, there are various options, including surgery.

Blank signs appear one by one



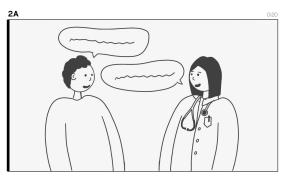
Why is this?

Questions mark pop on screen



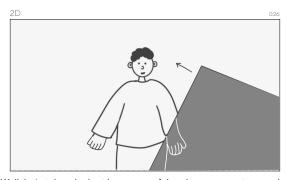
For muscle movement, signals from our brain are relayed via nerves

Brain is briefly highlighted and signals are relayed to the muscle



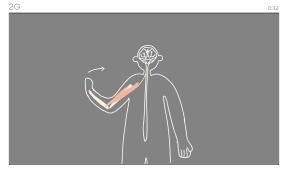
An early discussion with a nerve surgeon is very important because

Patients and surgeon discuss



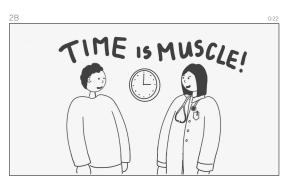
Well, let's take a look at how our peripheral nervous system works.

Grey card swipes from right to left



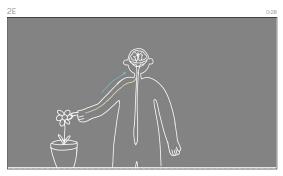
that directly contact their muscle.

Arm flexes



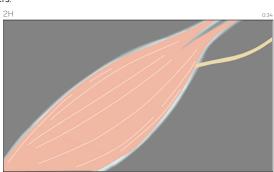
the recovery of muscle movement is time-sensitive. (Time is muscle!)

Clock spins and "Time is muscle" appears.



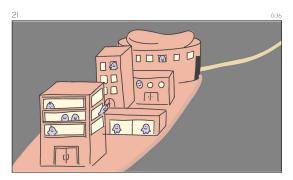
Normally, sensory peripheral nerves relay signals from our skin and other tissues to our brain.

Signals relayed from the periphery to brain as silhouette touches the flowers. $\,$



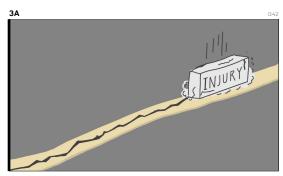
Imagine that each muscle

Muscle is briefly highlighted



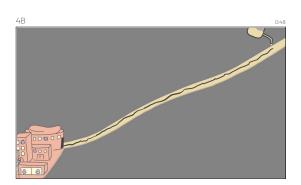
is a city

Muscle morphs into city

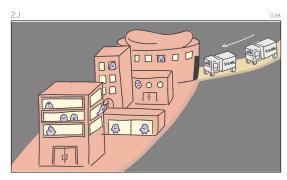


If the nerve pathway to relay these signals is disrupted,

Injury stone/block drops on nerve bridge, cracking it.

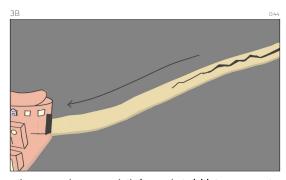


If the site of injury is far, it will take a long time for the nerve to regrow to the muscle.



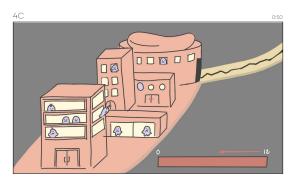
that depends on individual "nerve bridges"

Nerve morphs into bridge with trucks carrying signals



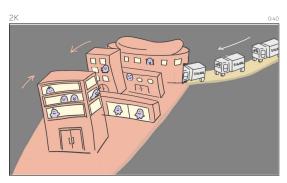
they can no longer reach their muscle to initiate movement.

Crack continues all the way to the "muscle city"



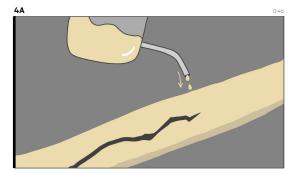
This is a problem because a muscle without nerve signals

Red bar depletes



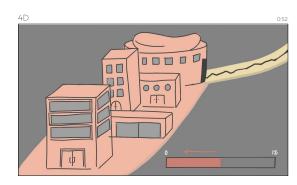
for signals to be delivered.

"Muscle city" contracts



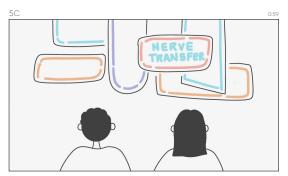
Luckily, peripheral nerves can regrow, but very slowly, and in many cases, only if the damage is repaired.

Yellow liquid to repair the "nerve bridge" slowly drops



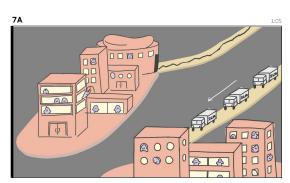


permanently loses its ability to function after 12-18 months.

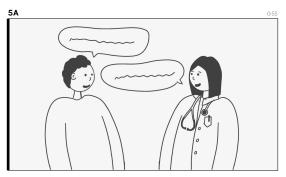


One option is nerve transfer surgery.

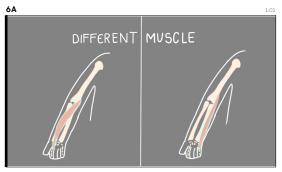
Nerve transfer sign lights up



So, a surgeon

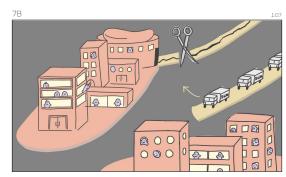


So, it is very important to see a nerve surgeon early and discuss the potential options for the management of your nerve injury.



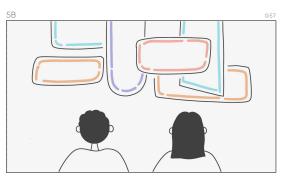
Our body has some different muscles

Muscles are briefly highlighted



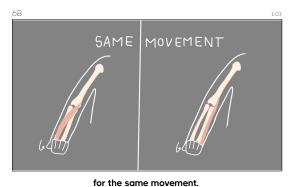
will take and reroute a healthy "donor" nerve from a repetitive functioning muscle

Injured and "donor nerve" are cut



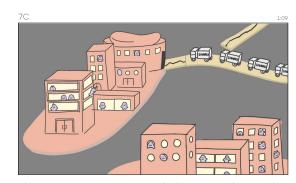
There are many good treatments available today!

Patient and surgeon turn with their backs facing audience. Blank signs appear one by one.



for the same

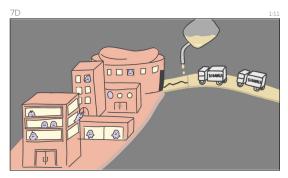
Both wrists flex



to the injured nerve near the non-functioning muscle without losing your original movement.

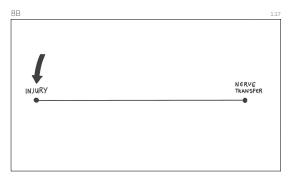
Nerve is transferred

Boards: 73 | Shots: 10 | Duration: 2:25 | Aspect Ratio: 16 : 9 DRAFT: MARCH 4, 2022

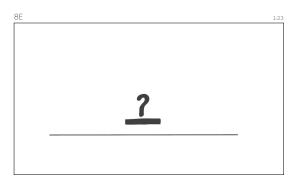


The surgery reduces the distance that the nerve must grow to reach the muscle,

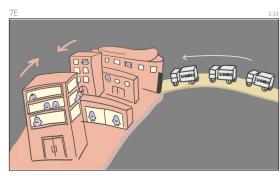
Repair of a small distance.



what happens here

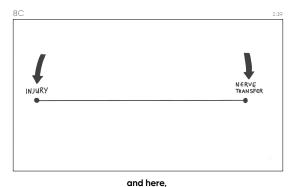


Question mark becomes the door

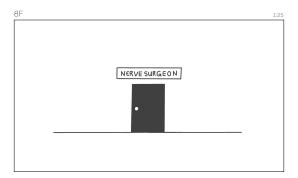


allowing connection before permanent damage occurs.

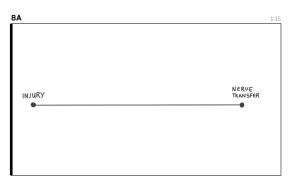
Muscle contracts



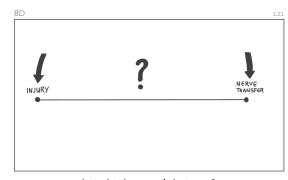
and here



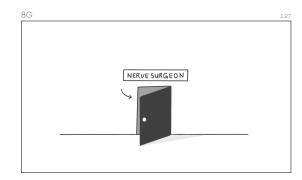
Nerve surgeon consultations!



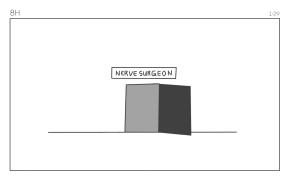
Now that we've looked at



but what happens in between?



Boards: 73 | Shots: 10 | Duration: 2:25 | Aspect Ratio: 16 : 9 DRAFT: MARCH 4, 2022

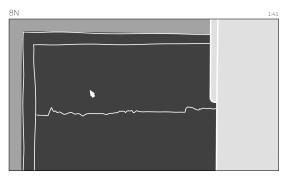


During one of your visits,

Camera follows through door



putting a small pin



These tests are very important to help the doctor determine

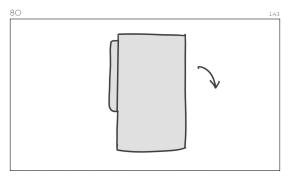


you may undergo nerve studies to determine the severity of your nerve injury.

Patient lies down



into your muscle

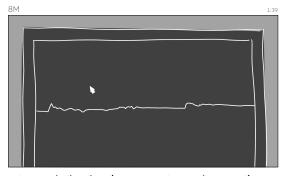


what surgical or non-surgical

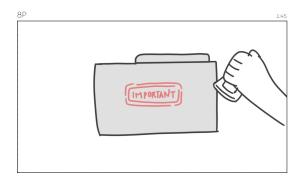
Folder rotate right



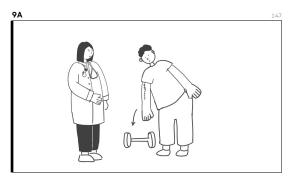
One of these tests involves



to see whether there is any nerve-to-muscle connection.

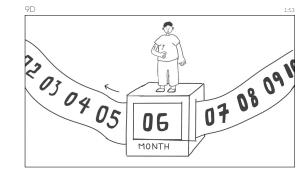


treatment is the most suitable for you.



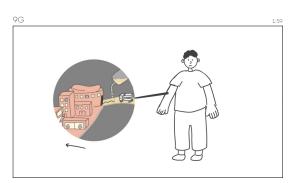
If a nerve transfer surgery is performed,

Patient attempts to lift the weight



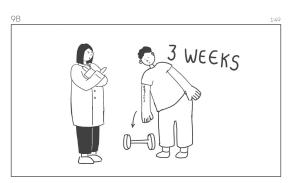
may take from 6

Patient starts to flex arm a little.

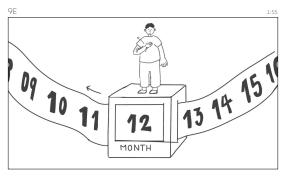


because time is needed for the nerve to reach the muscle,

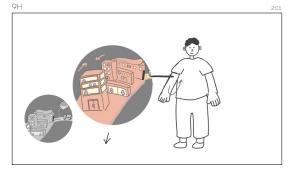
Patient lands



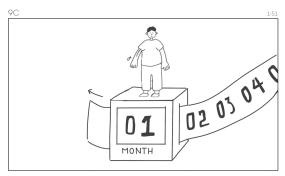
you may not be able to put weight on the surgical area for up to 3 weeks to protect the connected nerve.



up to 12 months before you start seeing improvements and up to 2 years for maximal results.



for the muscle to slowly get stronger,



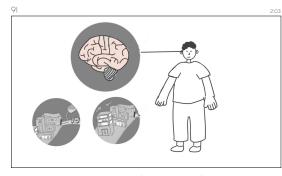
It is important to know that the results of a nerve transfer

Paper runs through the block. Patient tries but is unable to flex arm.

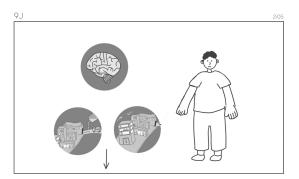


Patience is key for this long recovery process

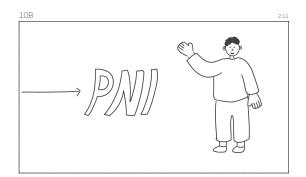
Patients and block fall.



and for your brain to be re-trained.



3 Circles fall and exit



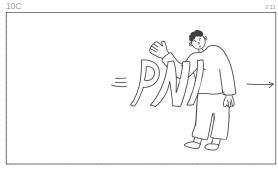
10E 2.17

Patients gets up with the help of surgeon.

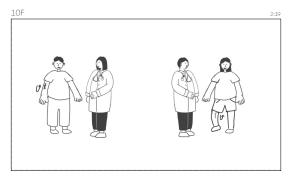


Your doctor and occupational or physiotherapist will be with you through this journey and guide you on exercises and what to expect.

Doctor walks in from right. Patient slowly flex arm

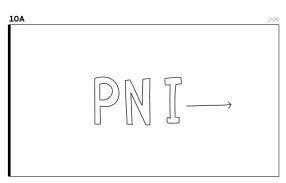


can have devastating effects,



Earlier treatment leads to better surgical outcomes for both muscle

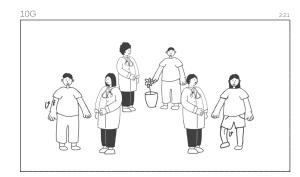
Patient (man) slowly flexes arm. Patient (women) flexes knee.



Because peripheral nerve injuries



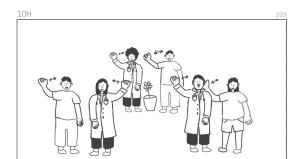
it is important to see a nerve surgeon as soon as possible because time is muscle.



and sensory function. Procedures such as nerve transfers,

Middle patient touches flower

Boards: 73 | Shots: 10 | Duration: 2:25 | Aspect Ratio: 16:9 DRAFT: MARCH 4, 2022



have the potential to reduce nerve pain and recover normal muscle movement and sensation.

All wave.