

EXTENDING HANDS FOR SAVING A HAND.....!!



By

Department Of Plastic and Reconstructive Surgery

ESIC MEDICAL COLLEGE & HOSPITAL

HOW IT ALL BEGAN.....



IN 2018.....



IN NEXT 3 YEARS....





Beginning of Major Replantations, & Reconstructions At ESIC



BY 2023.... THE TEAM !





TOTAL NO. OF OP: 5000-6000

TOTAL NO. OF IP: 850

**NO. OF SURGERIES DONE IN A
YEAR: 1000**

**TOTAL NO. OF HAND SURGERIES:
550**

REFERRALS: 0



PLASTIC SURGERY UNIT



PATIENT CUBICLES





A NATIONAL TEACHING INSTITUTE...



WITH ROUND THE CLOCK AVAILABILITY OF PLASTIC SURGERY TEAM...

WITH REGULAR EMERGENCY TRAUMA SURGERIES BEING DONE...

TAKING THE FIRST STEP!!!

- GOVERNMENT Vs CORPORATE TIE UP'S!
- AVAILABILITY & GUIDANCE OF SENIOR SUPERICIALISTS
- WRONGLY REFERRED TO THE WRONG SURGEON !
- BUDGET BIAS..

“ IP IS VIP ”



- Work-related hand injuries can significantly reduce the quality of life.
- Most of these workers are from different backgrounds, unskilled or not trained at, which can put them at high risk.

- Industrial accidents are of high incidence among cases which present to ESIC casualty

AN OVERVIEW.....





HOW HAND INJURIES ARE MANAGED



HOW IT IS IMPORTANT TO MANAGE HAND INJURIES THE RIGHT WAY



HOW A SIMPLE INJURY SHOULD NOT BE NEGLECTED!!



HOW IT IS POSSIBLE TO REPAIR EVERY STUCTURE THAT HAS BEEN CUT



HOW , IT IS POSSIBLE TO GIVE A COVER TO EVERY OPEN WOUND

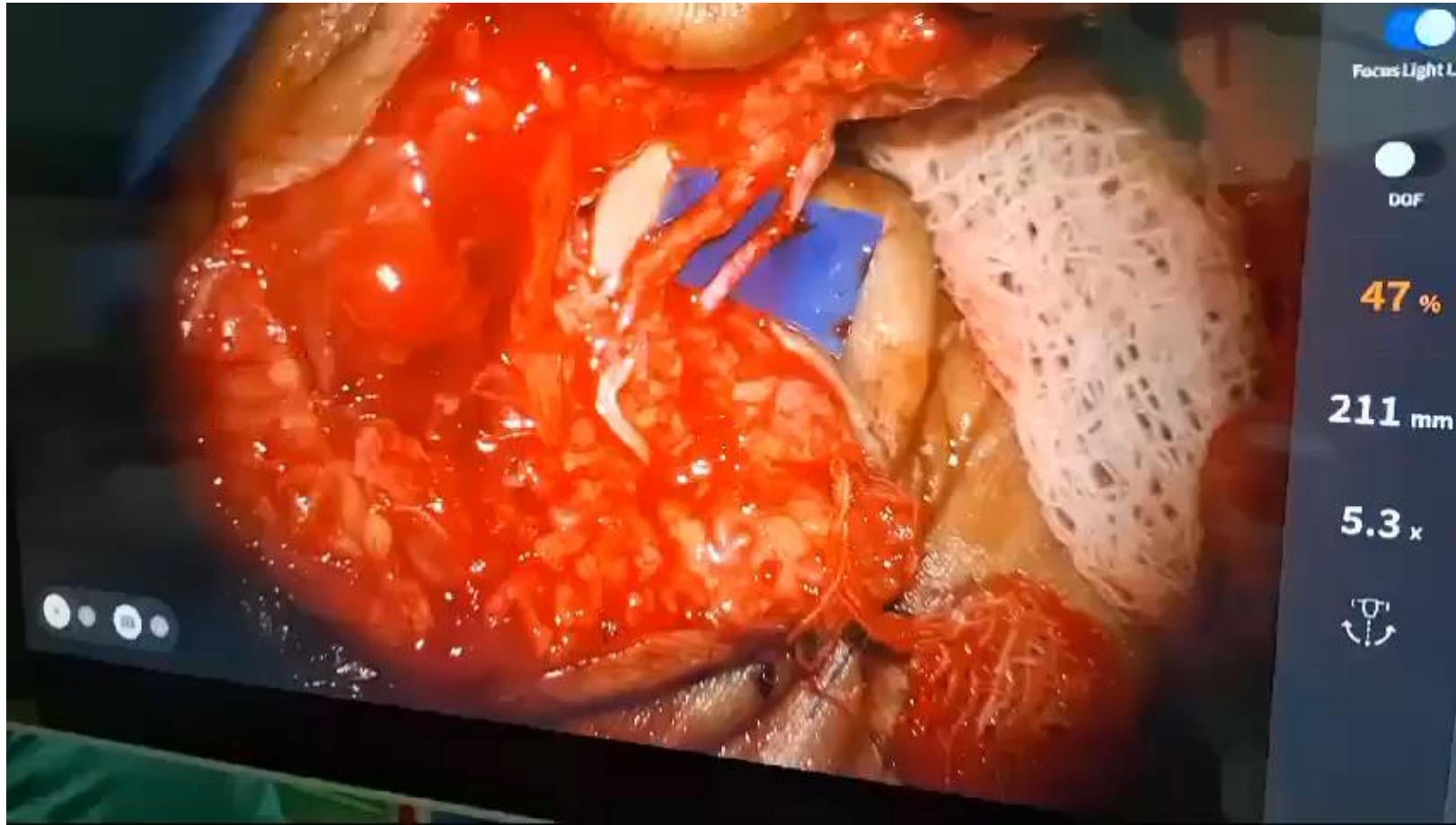


HOW IT IS POSSIBLE TO GIVE SOME FUNCTION EVEN IN A COMPLETELY MANGLED HAND



**HOW IMPORTANT IS OUR THUMB !!
&
HOW A COMPLETE RECOVERY IS POSSIBLE OVER TIME**





HOW FUNCTIONALITY IS VITAL IN HAND INJURIES









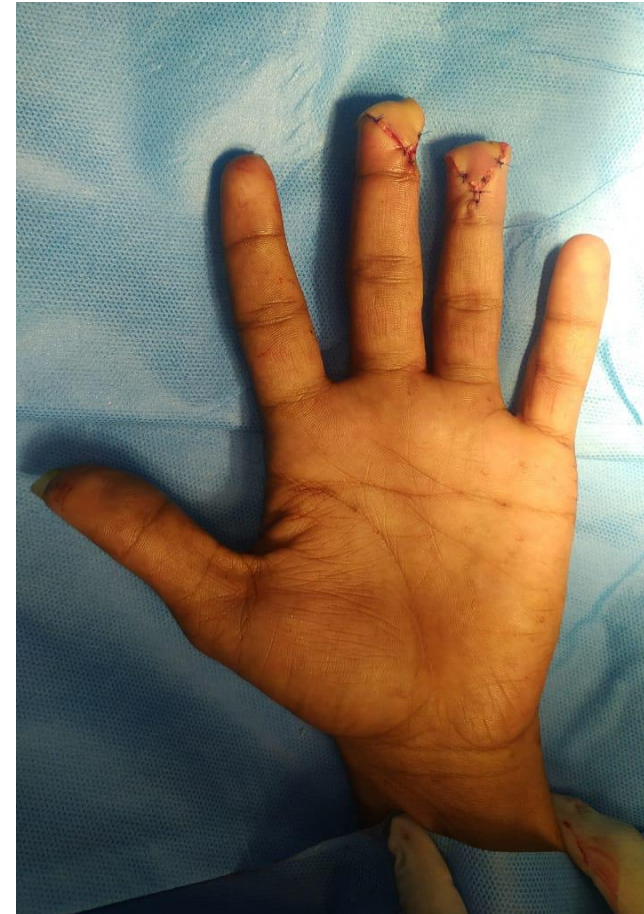
HOW SAVING THE FINGER IS ALWAYS THE FIRST PRIORITY !



HOW , GIVING A PROPER COVER IS IMPORTANT!



HOW RECONSTRUCTION IS POSSIBLE AT ALL LEVELS



HOW EVERY HAND INJURY IS UNIQUE, AND SO IS THE TREATMENT!!



HOW IT IS POSSIBLE TO GET A 100% FUNCTIONALITY WHEN REFERRED TO THE RIGHT PERSON AT RIGHT TIME



HOW AMPUTATION IS NOT THE SOLUTION FOR ALL COMPLETE CUT INJURIES



HOW, NOT EVERYTHING HAS TO BE DISCARDED JUST BECAUSE IT IS COMPLETELY CUT!!



HOW IT IS POSSIBLE TO SAVE EVEN A LIMB LIKE THIS !





OCO
01 01/10/2025 11

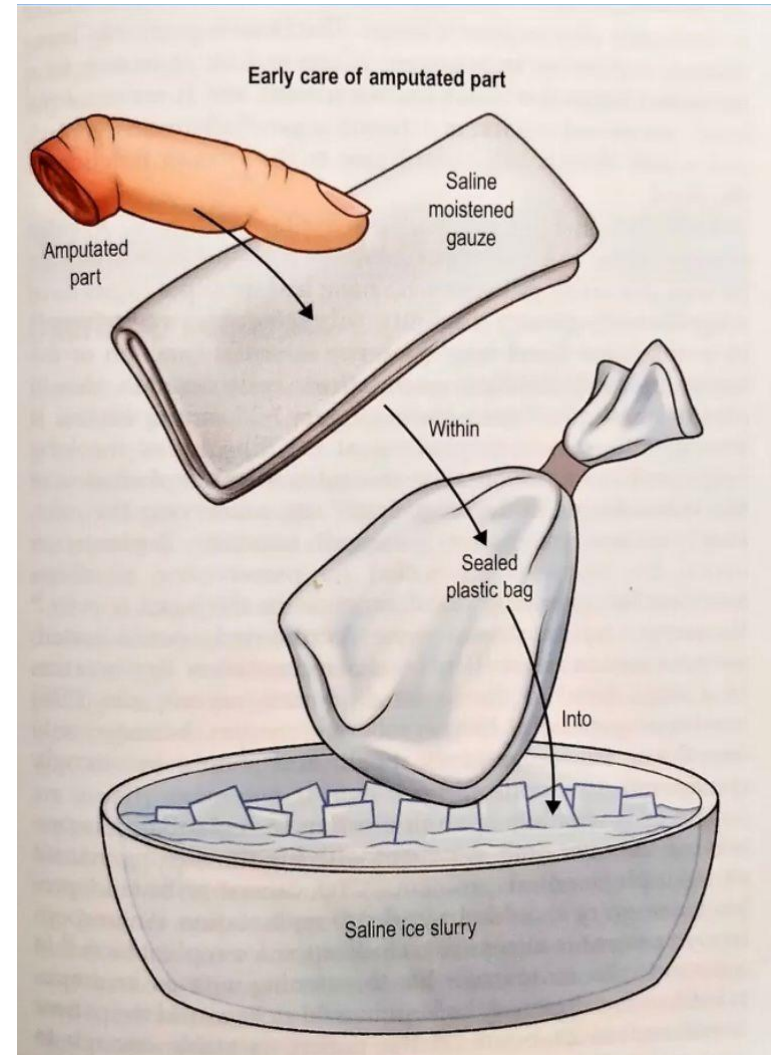


Dr. Rajendra Kumar, IAS
Director General, ESIC

PRESERVATION AND TRANSPORTATION

What to do:

- Do not squeeze the part
- Do not wash
- Wrap in moist gauze/clean cloth
- Put it in sealed plastic bag
- Place it in mixture of ice+water



Caution:

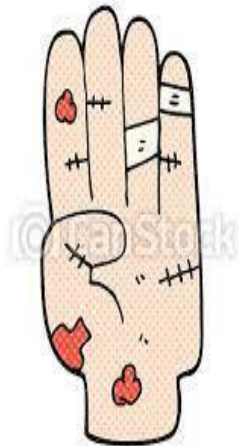
- ❑ Avoid direct contact with ice (avoid freezing-frostbite)
- ❑ Should not be immersed in water
- ❑ Do not allow the part to dry up
- ❑ Do not put it in formalin



HOW MUCH TIME WE GET AFTER PRESERVATION OF PART FOR REPLANTATION?

- Fingers –properly preserved-upto 24 hrs
- Hand-properly preserved-upto 18 hrs
- Forearm level-upto 6-8hrs
- Arm level-upto 3-5hrs

IS IT POSSIBLE TO PREVENT THESE INJURIES ???



QUESTIONNAIRE

1. History of Occupational Injury					
Age					
Gender	Male			Female	
Education	Literate			Illiterate	
Occupation	Professional	Skilled		Non Skilled	
		Machine Operator		Manual Material Handler	
Source of injury	Machine			Other sources	
Mechanism of Injury	Hand caught inside the machine			Other mechanism	
Hand activity at time of injury	Working on machine	Handling objects	Working on powered tool	Working on non-powered tool	
2. Clinical Information of Patient					
Hand affected	Dominant			Non Dominant	
Injury involving hand	Finger	Palm	Dorsum	Wrist	
Digit Involved	Little	Ring		Middle	Index Thumb
Radiological evidence of fracture	Yes			No	
Cause of occupational injury	Lack of concentration (Overtime)	Wearing ill-fitted gloves	Lack of machine maintenance	Workers Chronic Disease (co-morbidities/addictions)	

This QUESTIONNAIRE....

- Provides an insight into the lack of protection and suggest modification or updating the existing machinery if they are outdated and guidance of workers
- Also provides a better understanding of the management of such injuries

CONCLUSION

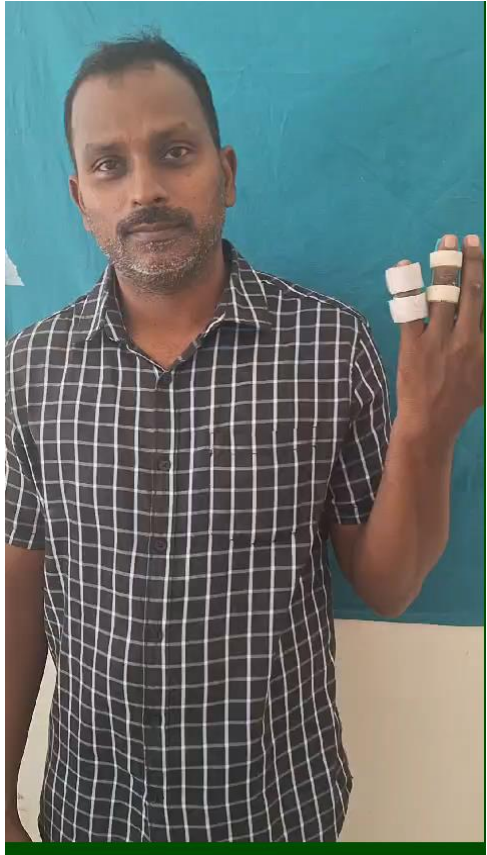
- Work-related hand injuries can significantly reduce the quality of life
- Functionality of the limb is vital.



Conclusion...

- The limb can be salvaged if referred to a **Plastic Surgeon** at right time following the discussed storage and transport protocols, to restore the maximum function.





THANK YOU

