

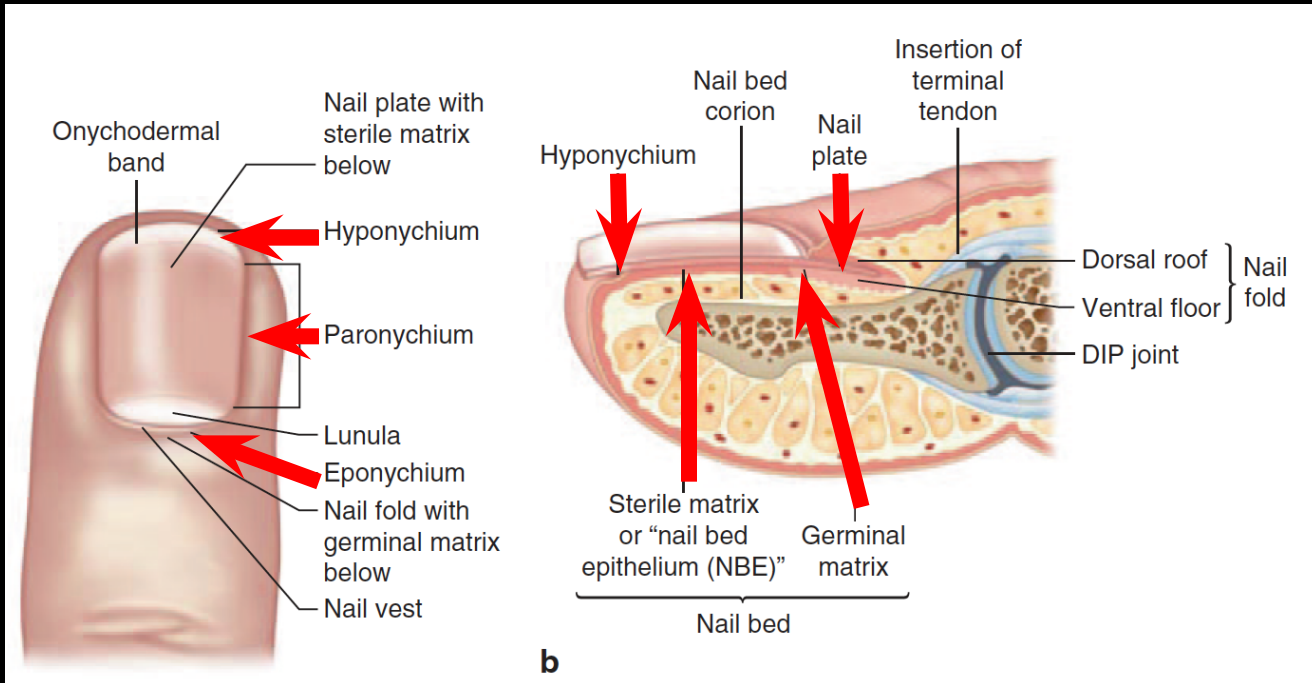
Fingertip injuries

Ali Phillips
Hand Fellow
UHS

Take pleasure in your hands



Anatomy



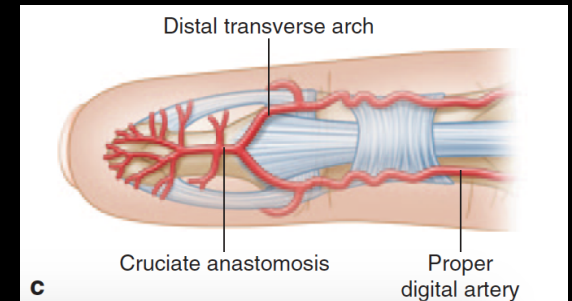
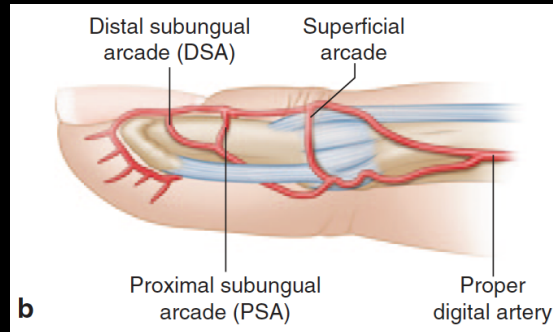
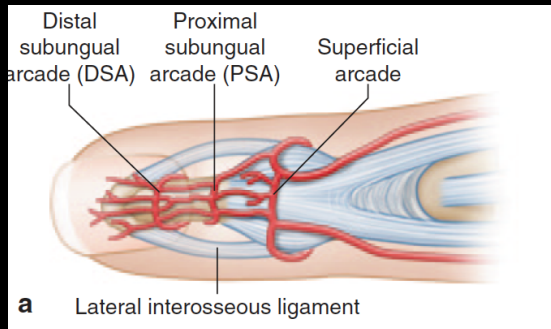
Horny solehorn

Bugs

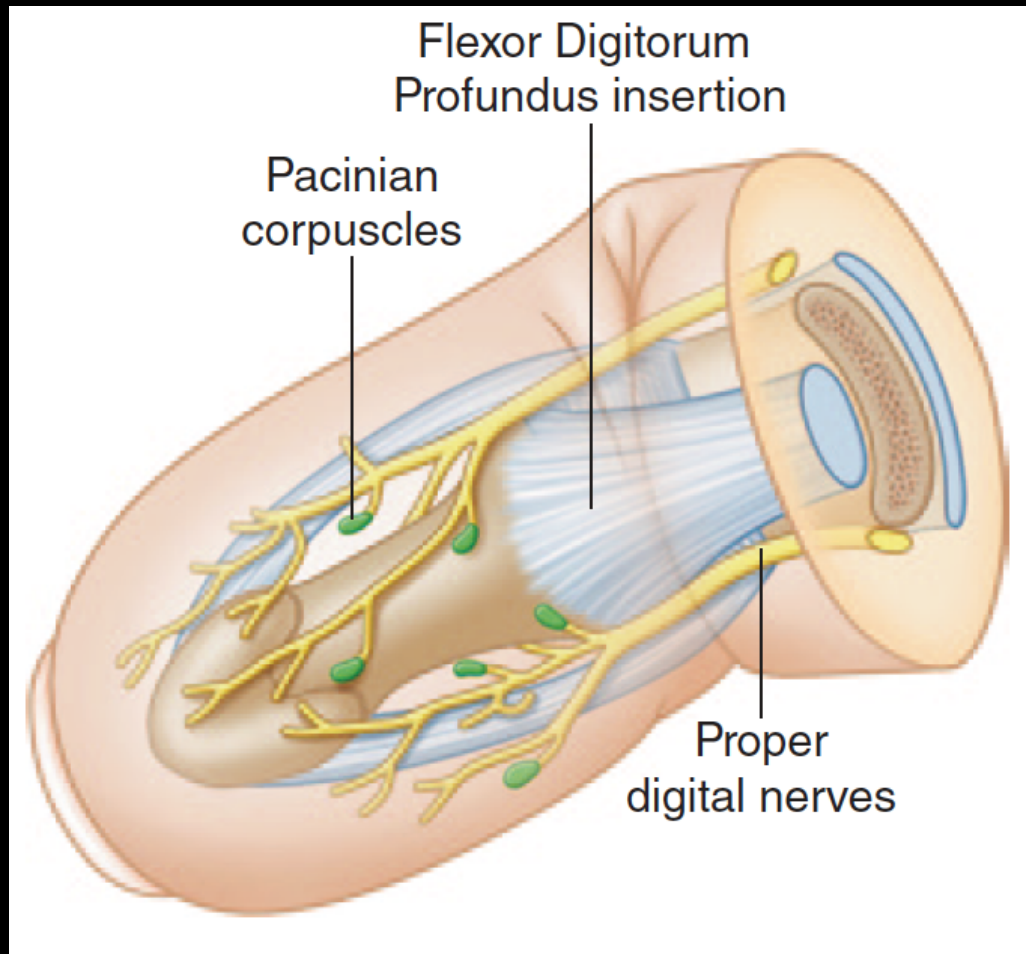
Microbe Genera Found Underneath the Fingernails

Bacteria	Fungus	Yeast
<i>Pseudomonas</i>	<i>Trichophyton</i>	<i>Candida</i>
<i>Staphylococcus</i>	<i>Epidermophyton</i>	<i>Rhodotorula</i>
<i>Acinetobacter</i>	<i>Acremonium</i>	
<i>Enterobacter</i>	<i>Aspergillus</i>	
<i>Klebsiella</i>	<i>Scopulariopsis</i>	
<i>Aeromonas</i>	<i>Cladosporium</i>	
<i>Serratia</i>		

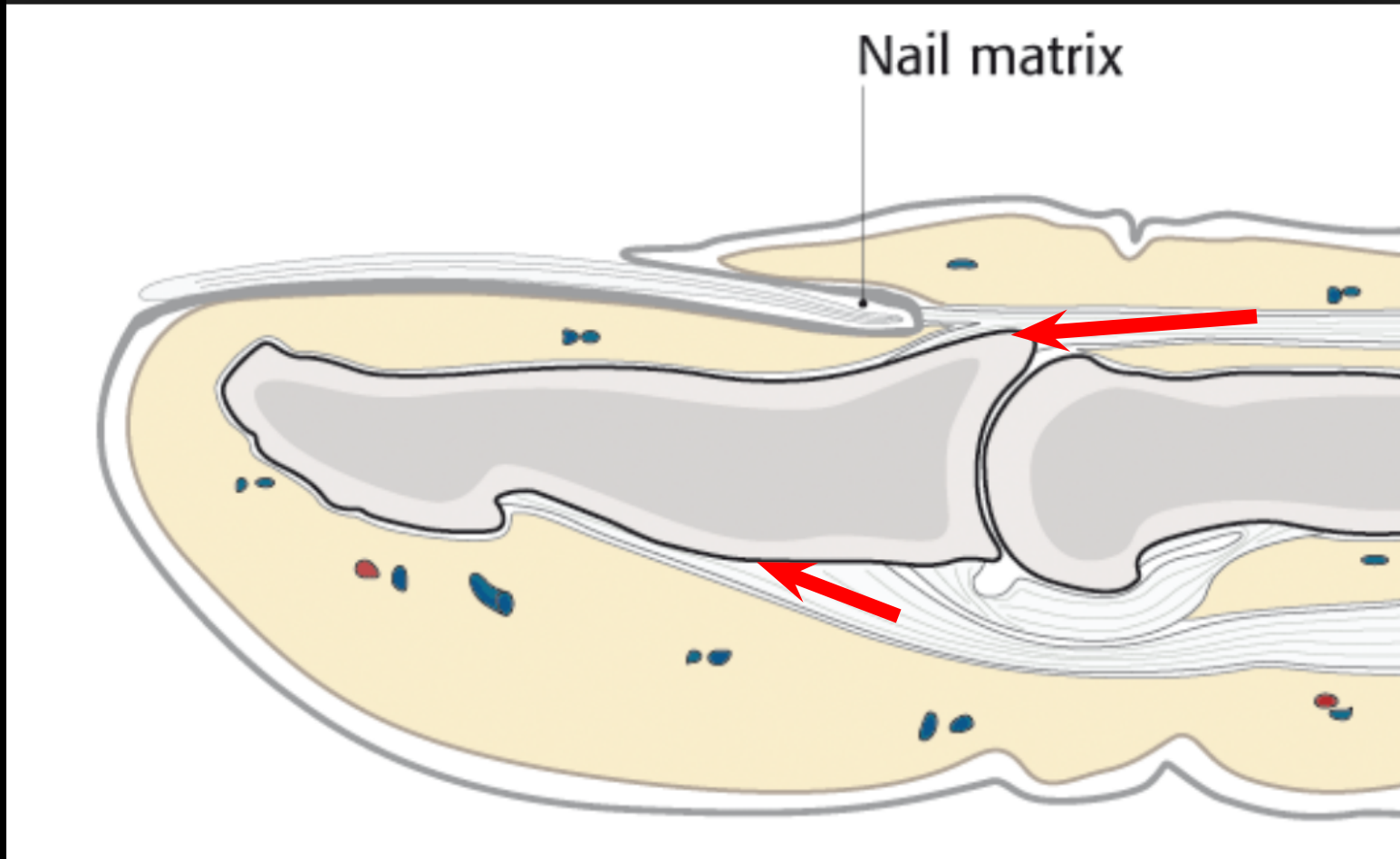
Arteries



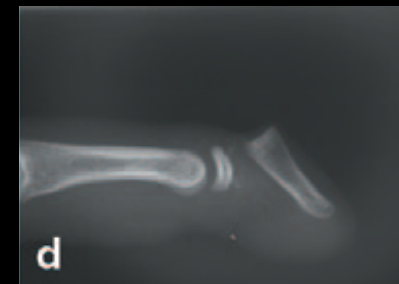
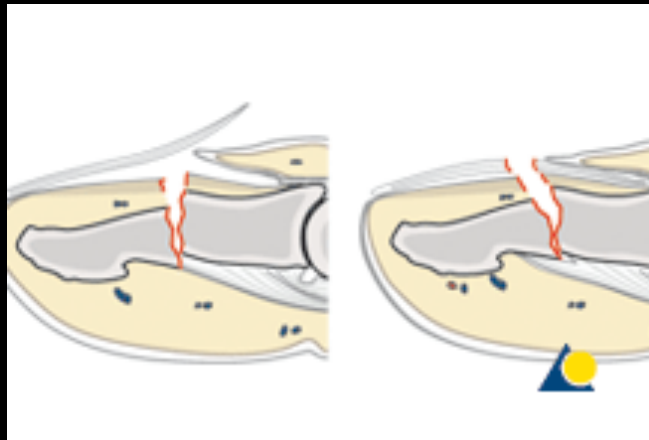
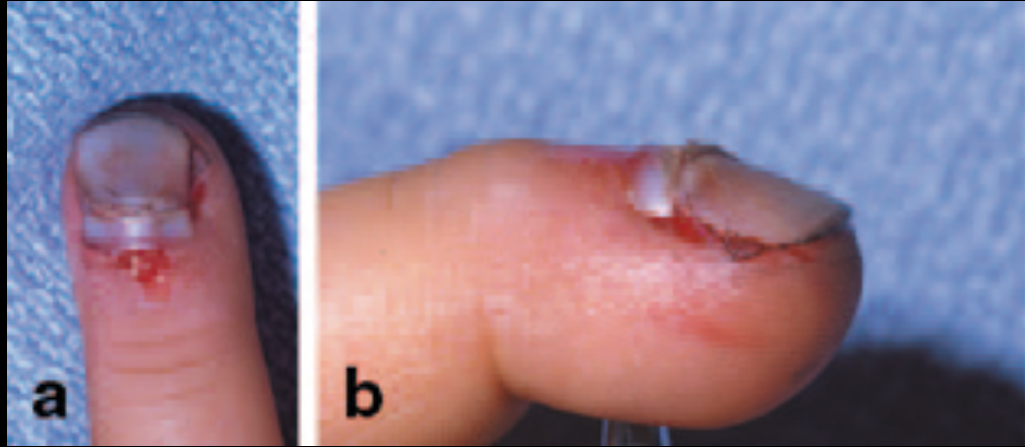
Nerves



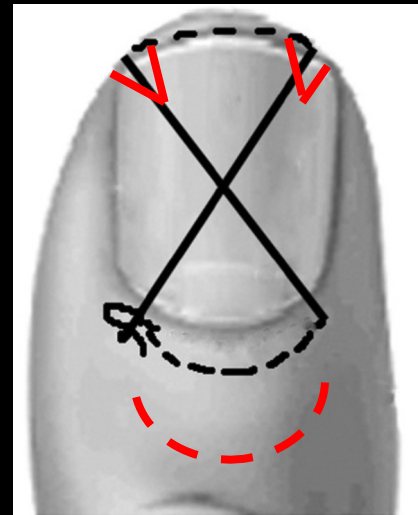
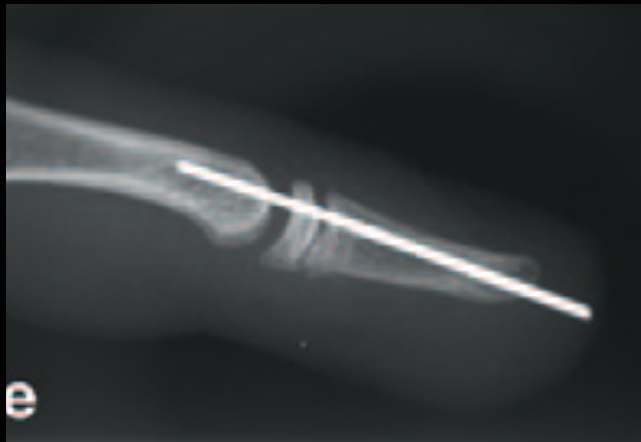
Tendons



Seymour fracture



Seymour fracture



Nailbed injuries

Most common injury in the hand!

If the eponychium is not injured you don't need to replace the nail

Meticulous repair can yield good results

Nail deformities

Non-adherance

Cause: trauma

Fix: remove nail, revise scar +/-
graft (split or full thickness)



Nail deformities

Ridged nail

Cause: trauma to distal phalanx

Fix: exploration and scar excision



Nail deformities

Eponychial loss

Cause: trauma/surgery

Fix: composite graft from big toe



Nail deformities

Synechia/pterygium

Cause: damage to the underneath of the eponychial fold

Fix: keep it open when repairing



Nail deformities

Split-nail

Cause: scarring in sterile or germinal matrix

Fix: (meticulous primary repair)
grafting as required or ablation



Nail deformities

Hook nail

Cause: loss of volar support for nail

Fix: difficult!

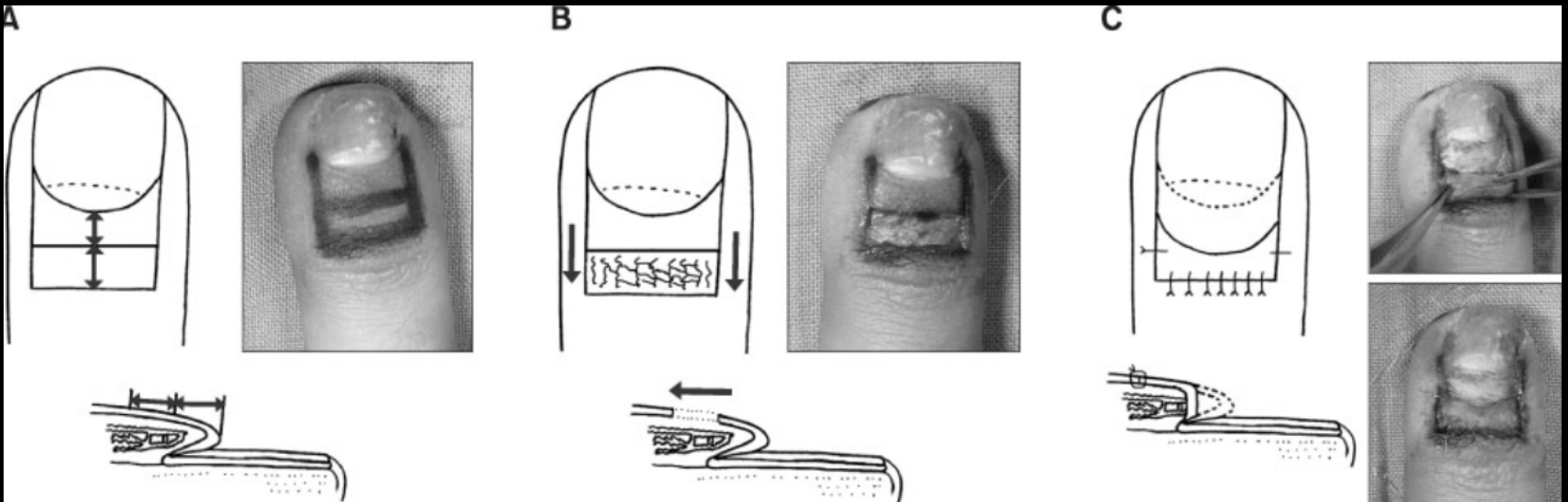


Nail deformities

Loss of length

Cause: trauma

Fix: “eponychial flap”



Subungual haematoma

“50% of sterile matrix” –
trephine

Often assoc with #

No need for Abx

Do not remove nail plate
unless eponychial dislocation

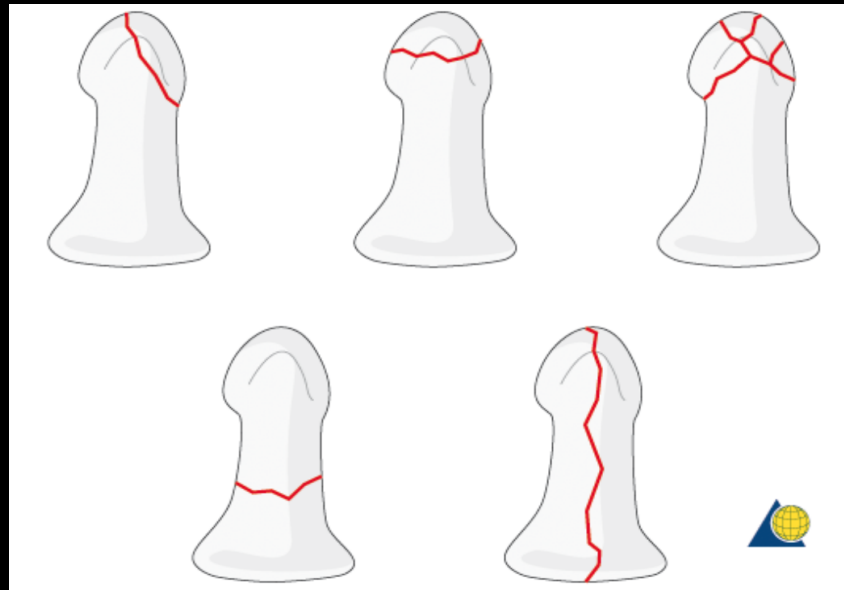
Keep clean!



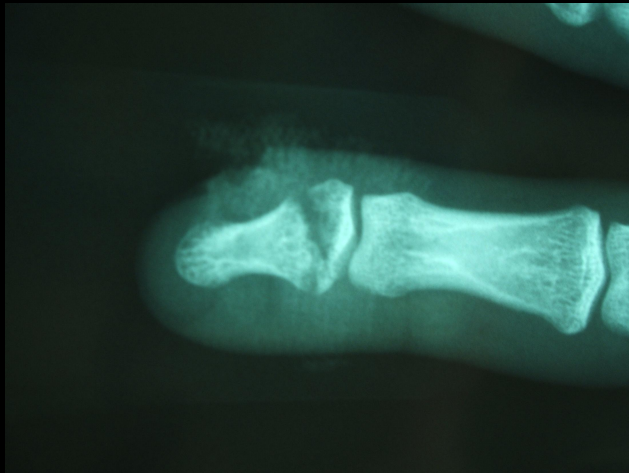
Shaft

Up to 47% symptomatic non-union at 6 months

Numbness, cold insensitivity, hyperaesthesia,
DIPJ stiffness



Shaft



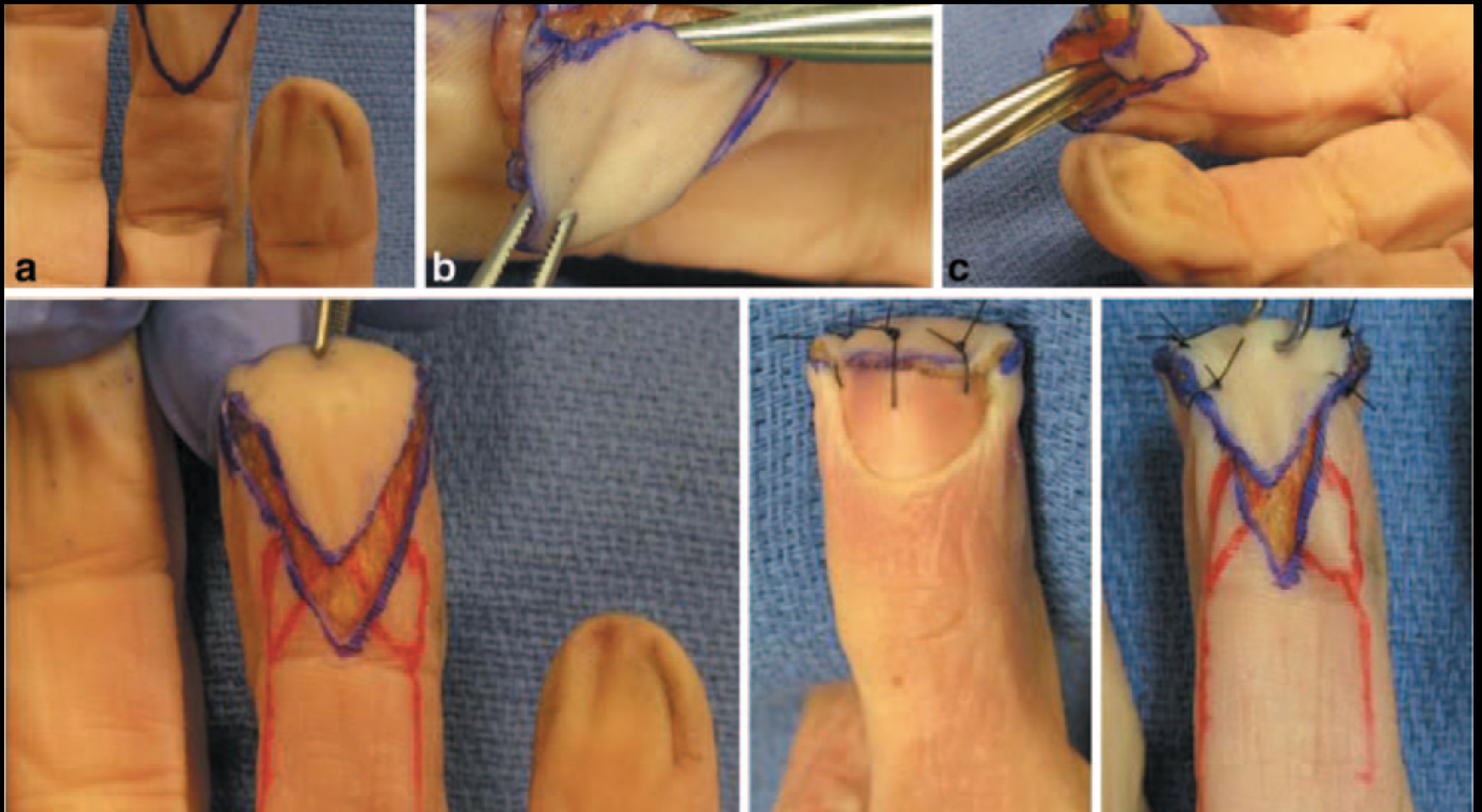
Amputations

Multiple flaps described

Replantation - only in Taiwan!
(exception is thumb)

Paediatric fingertips can be sutured in place if
<5h from injury

Flaps e.g. V-Y



Moist wounds heal twice as fast



Moist wounds heal with less scarring



94 days after

lateral view

Simple washing



Primary condition



50 days after



50 days after
volar view

My own experience - AW



My own experience - AW



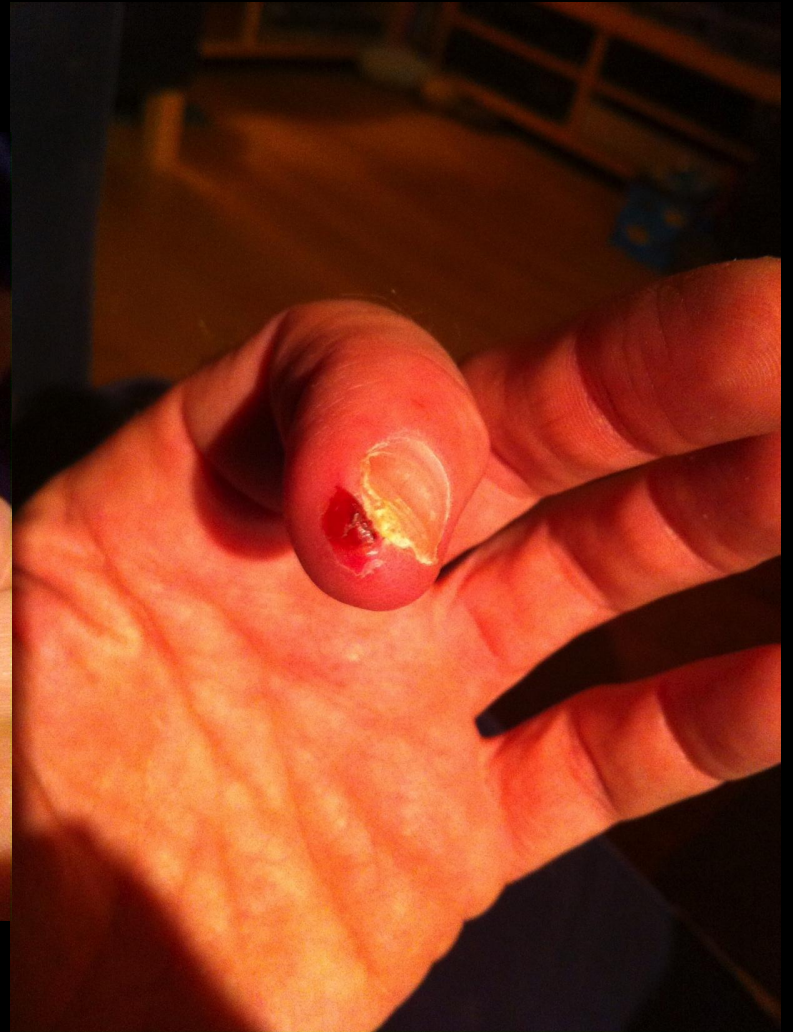
My own experience - AW



My own experience - RB



My own experience - RB



My own experience - RB



Summary

Get to know your fingertips

Beware paediatric injuries – not benign

Get it right first time

“Moist and clean” – “let it dry and it’ll die”