

Foot Amputations

Magdi E Greiss

MD, MChOrth, FRCS

“Pleasure
is the
absence of
pain.”

Cicero
50BC

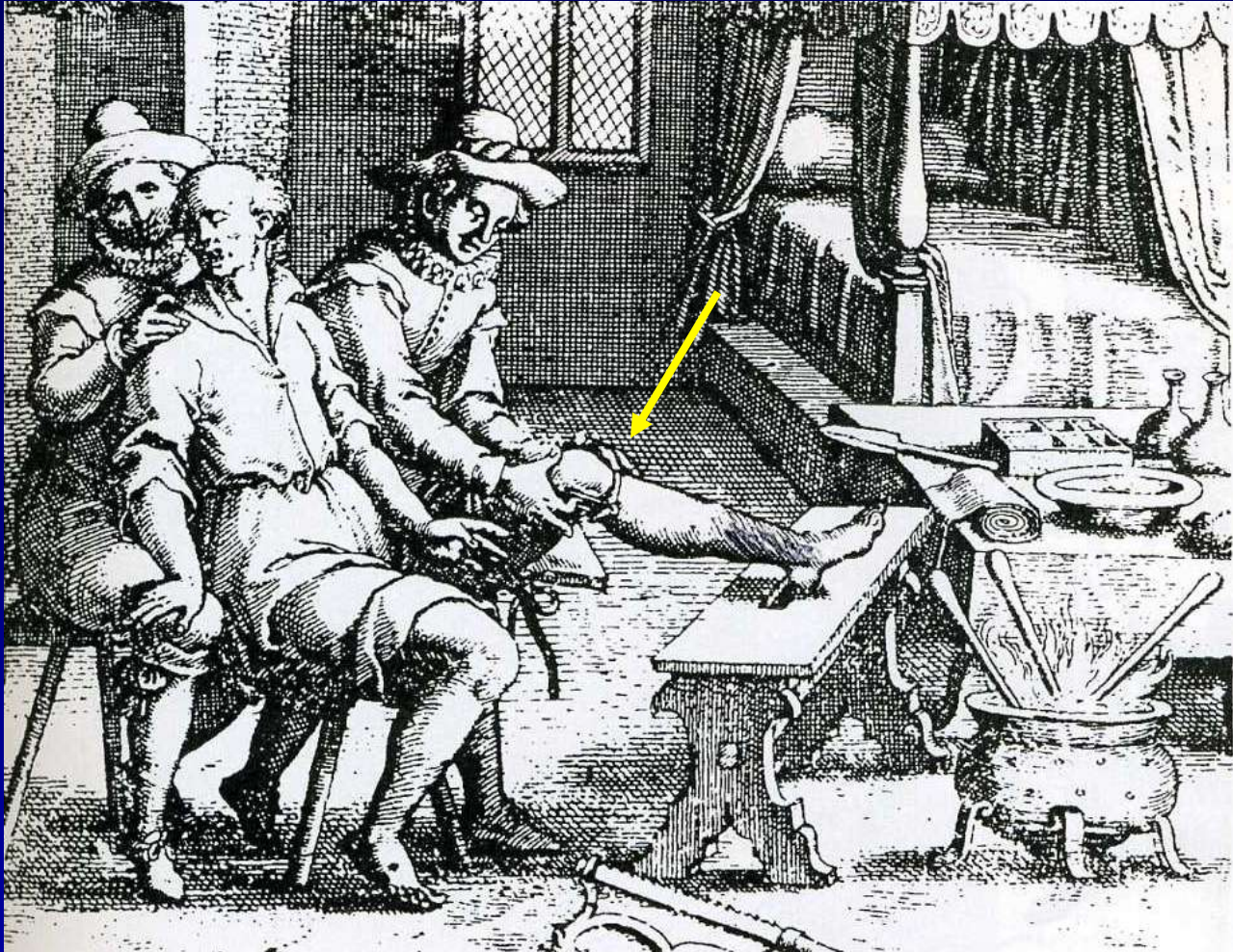


St Damien & St Cosmos

Patron Saints of Medicine

- Arab by birth
- Physicians
- Martyred by Diocletian

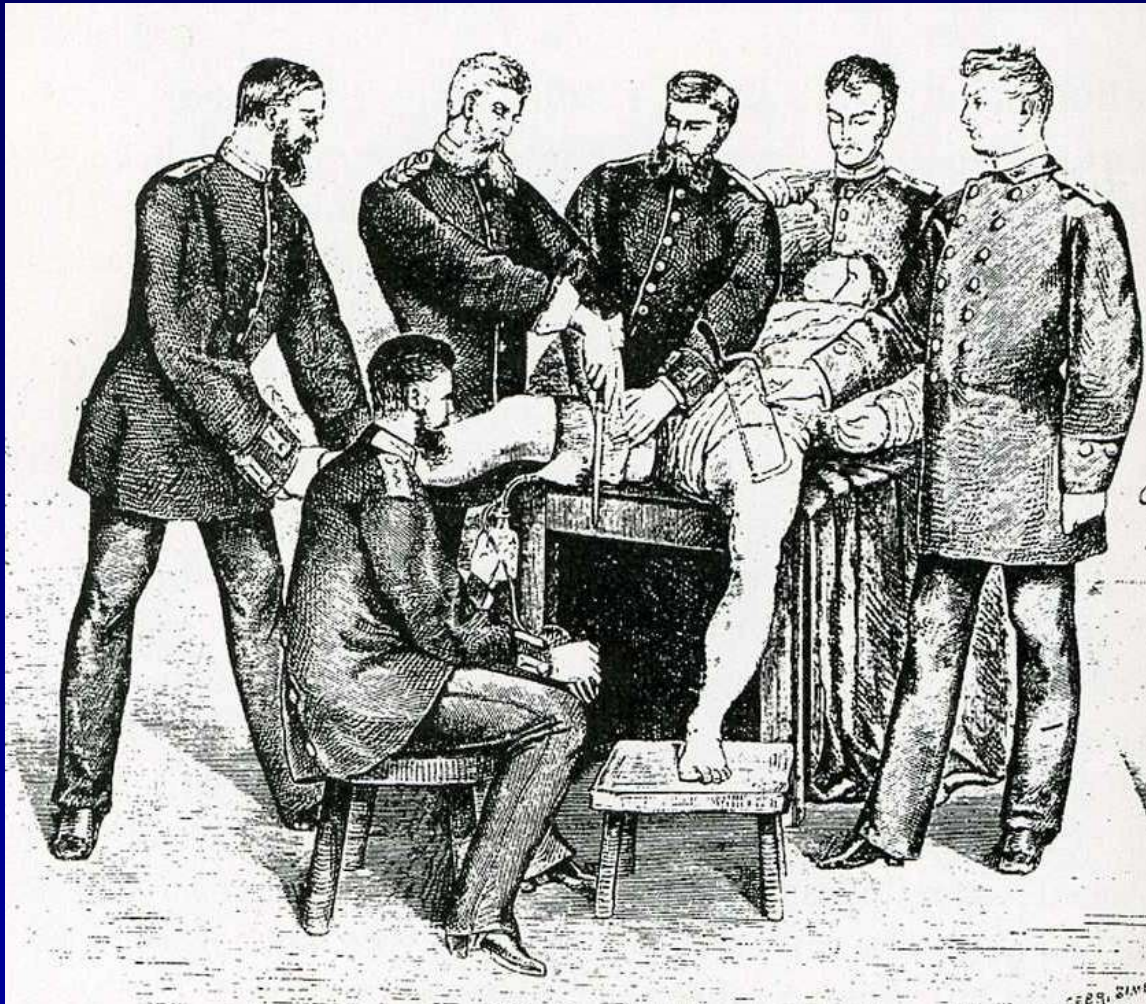




Harvey - Tourniquet 1646



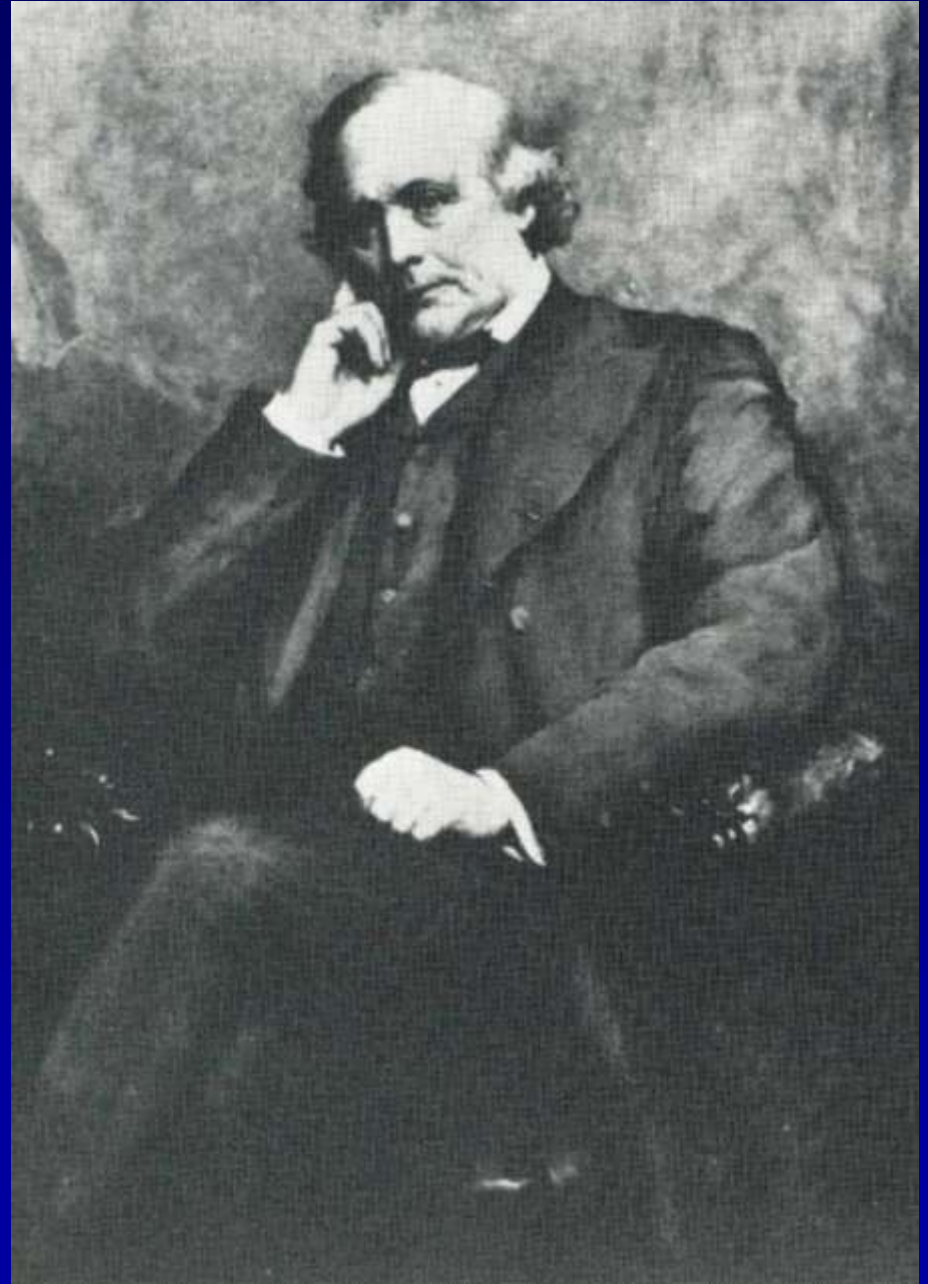
Wiseman - Cautery 1672



Esmarch and Lister
1884 “Let us spray.”

Lord Joseph Lister

(1827 – 1912)





Cruris exstirpatio,
Anno 1660.

Amputations

5767 yearly in UK

92% lower limb

75% above 65

65% male

80% BKA will walk

40% AKA will walk

Self- inflicted Amputation



Foot Amputations

- Plantigrade
- Sensitive
- Minimum 3 rays
- TA lengthening

Amputations

Perfect Stump

- Bone end shaping
- Appropriate length
- Pressure joints
- Avoid bulky S/T
- Avoid scarring (1 healing)

Foot Amputations

Pre-operative

- Always use pre-operative prophylactic antibiotics
- Cover known organisms + Clostridium
- Mark the digit to be amputated as well as the side.

AND WHICH LITTLE PIGGY IS ABOUT TO HAVE SURGERY?



It's not a doodle. It's an autograph. Because before surgery, many doctors sign the site where surgery should be performed, while the patient watches. It's a program called "Sign Your Site," to make extra sure the operation happens in the place it should. Visit aofs.org or call 1-800-824-BONES. Ask your surgeon to "Sign Your Site" and relax - it'll only tickle.



AOFAS



AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS
Patient safety is no accident.
aofs.org

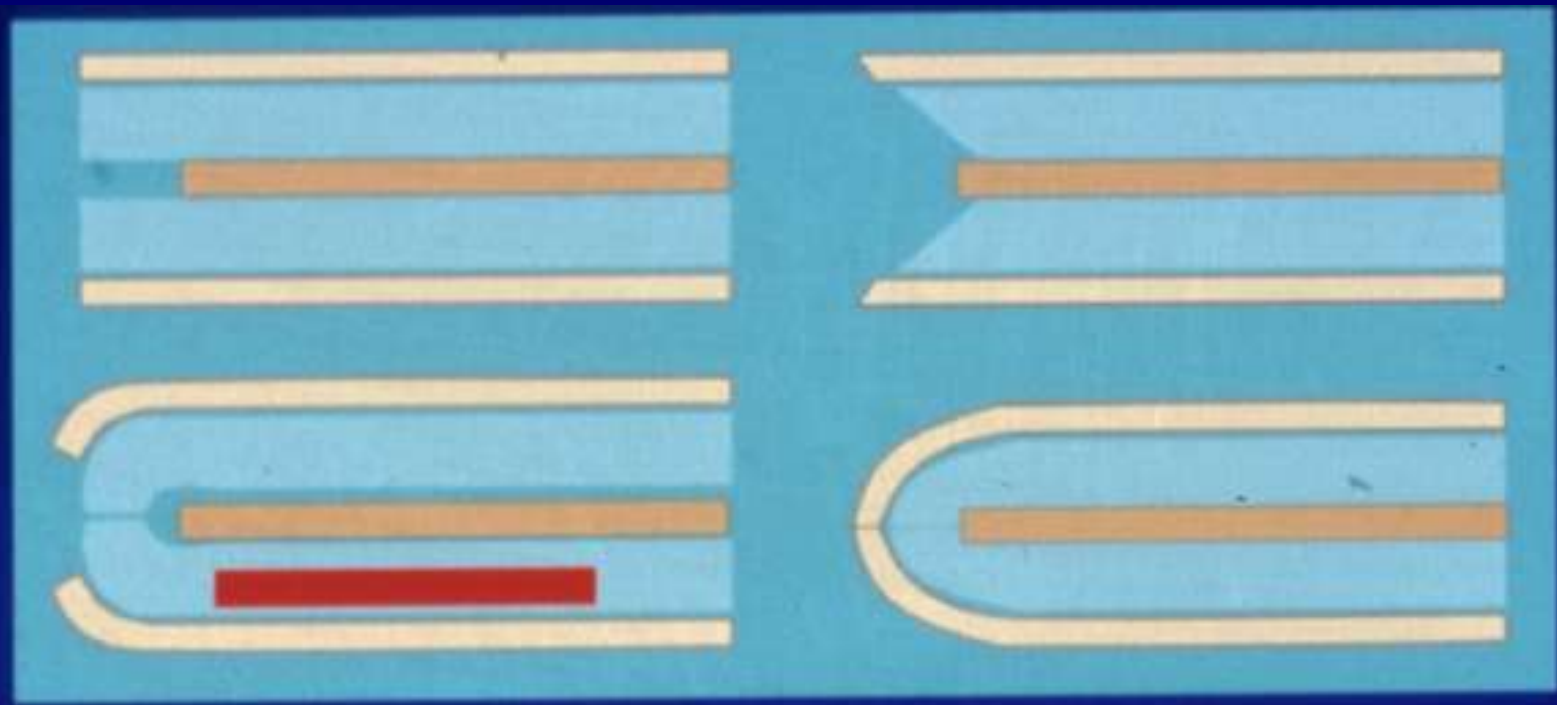
Foot Amputations

Tissue Handling

- Use a skin **marker** to delineate the flaps
- **Raked cut** through soft tissues
- Skin **flaps** should fall **comfortably** together
- **Nerves** are pulled down and cut high
- **Bones** cut with oscillating saw cooled with saline

No

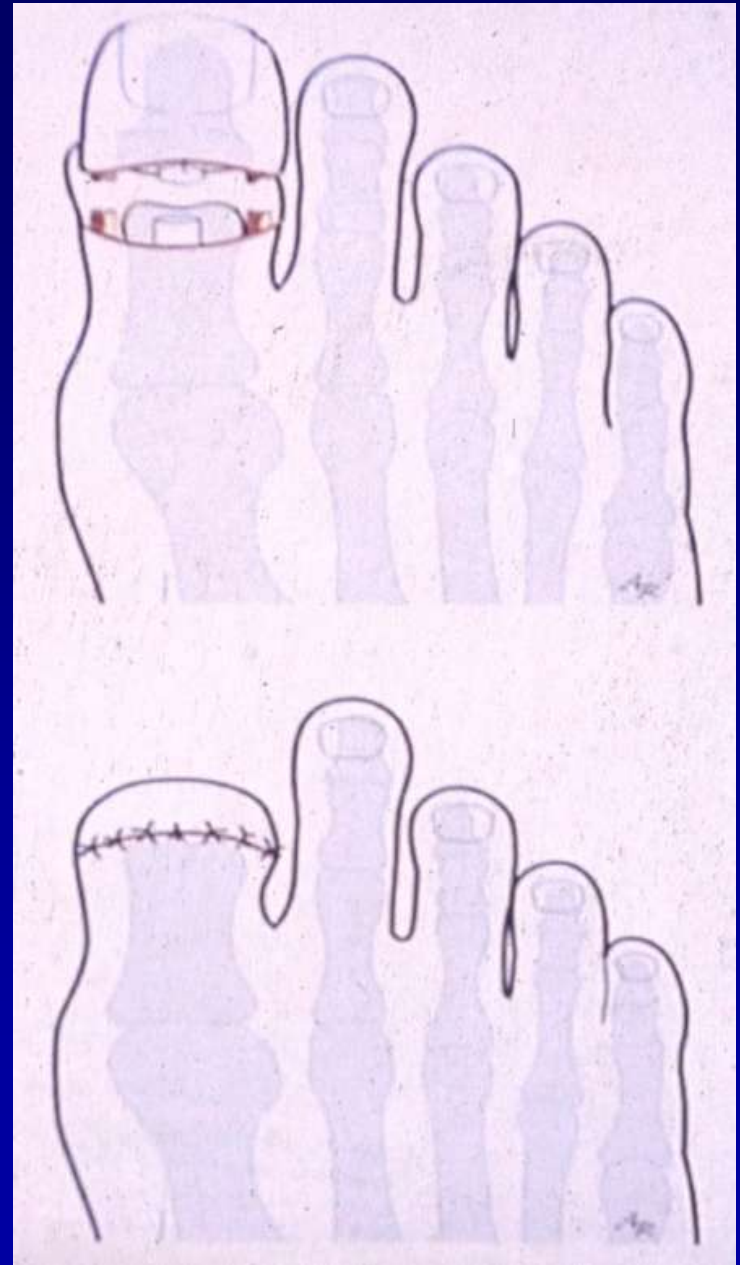
Yes





2nd Look!

Amputation of the Hallux at the Interphalangeal Joint



2nd Toe Amputation



6 5 10

Bunk Bed Toes



Wires! Wires! Wires!!!

- Falling out
- Bending
- Breaking
- Sepsis
- Time off work
- Low patient acceptability

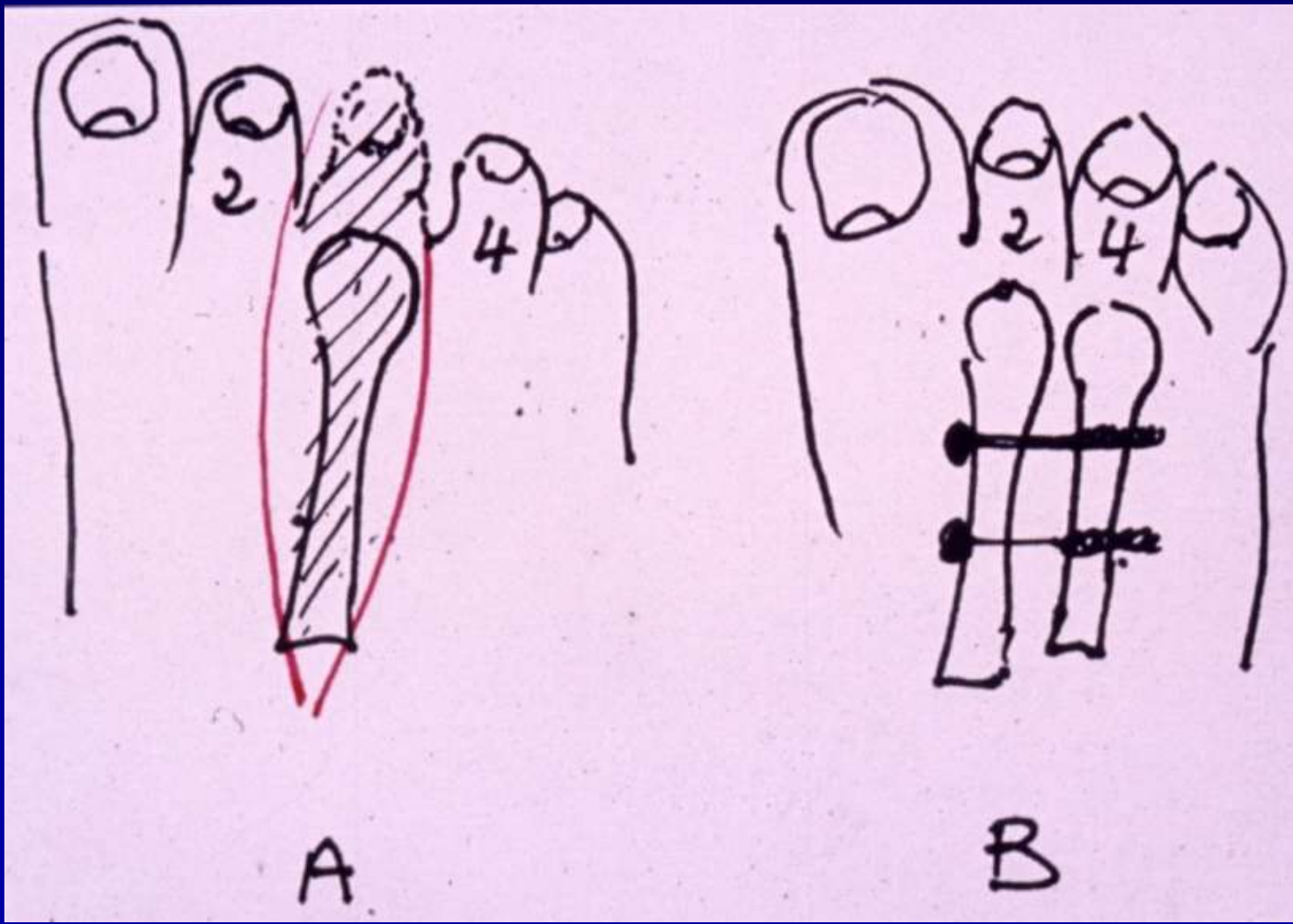




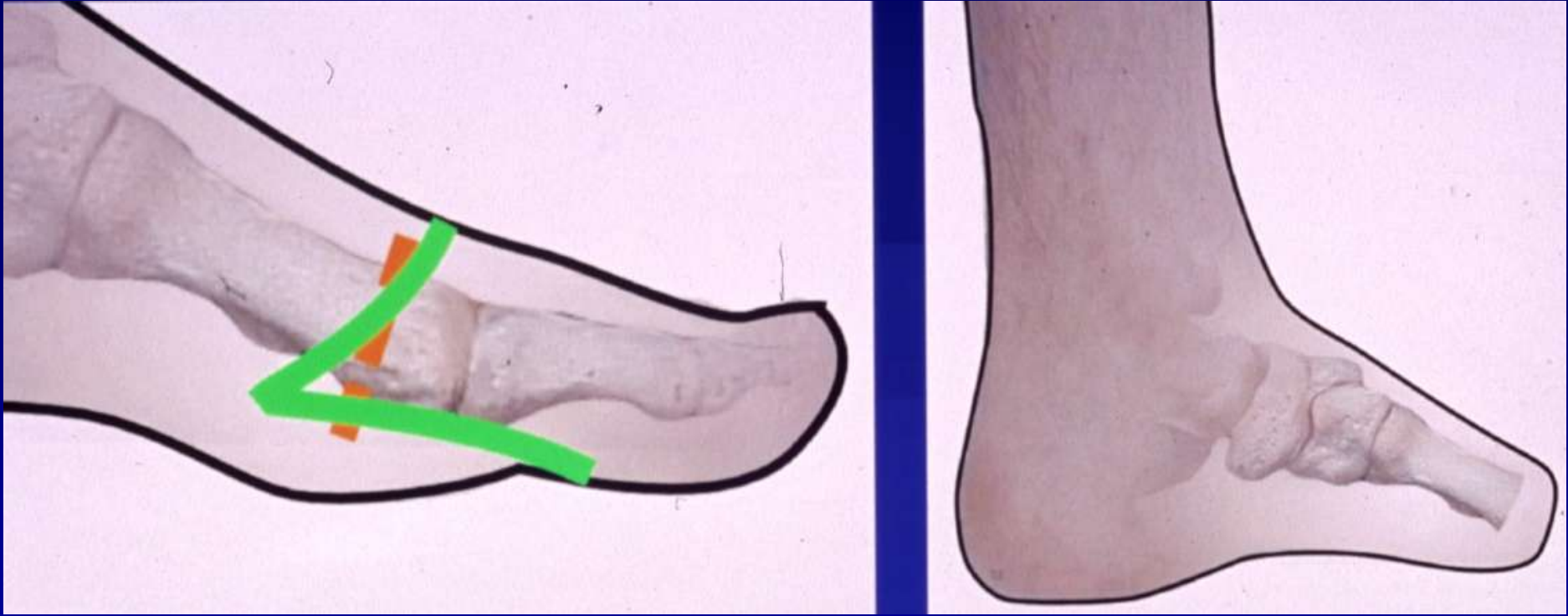
Rayectomy

Diabetic Foot Gangrene

Mid Ray Disease



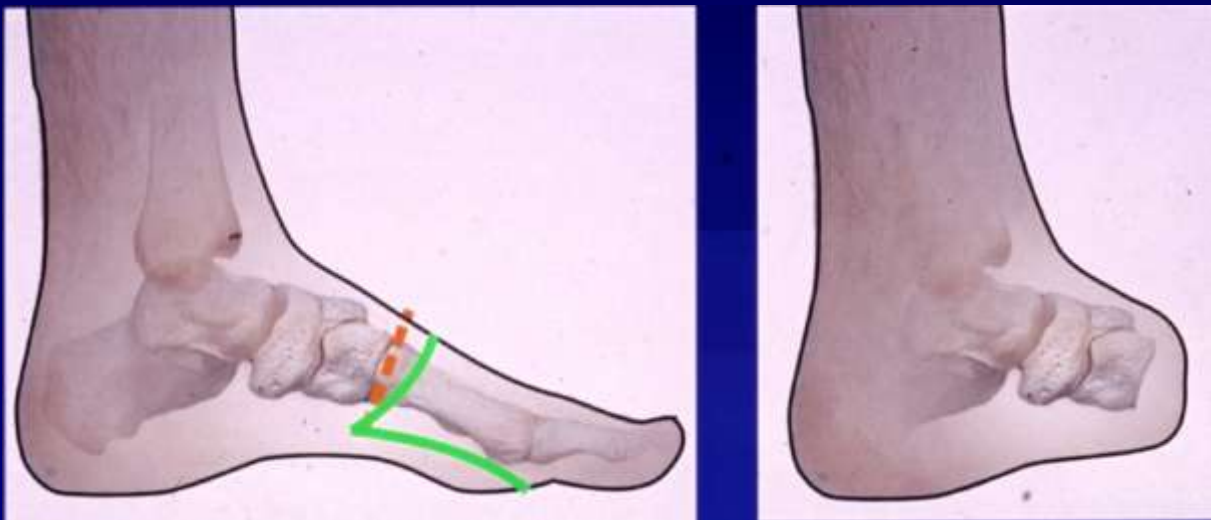




Trans-Metatarsal Amputation

Coronal
disease
better
than
Sagittal





Lisfranc Amputation





Chopart Amputation





Gastrocnemius Slide



Syme's Amputation

Yes

- Diabetes
- Trauma
- Neuropathy

No

- PVD
- Heel ulcer
- Fashionable Females

Syme's Amputation

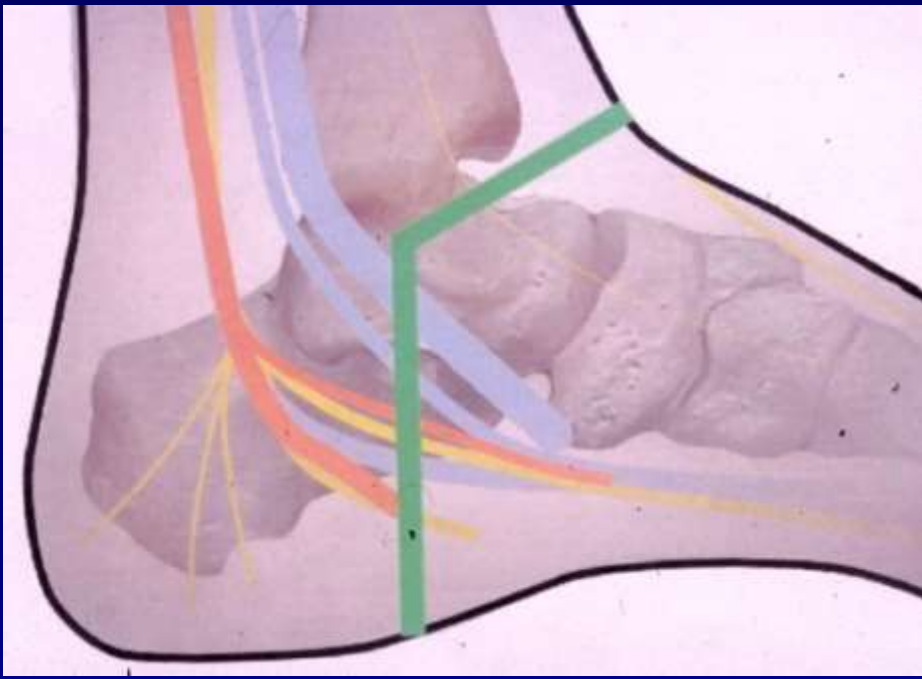
Indications

Diabetes, Trauma, Neuropathy

- Incise from **malleolar tips**
- **Vertically** down to sole
- Shortest distance across ankle
- Cut **tibia** horizontally **at widest part**

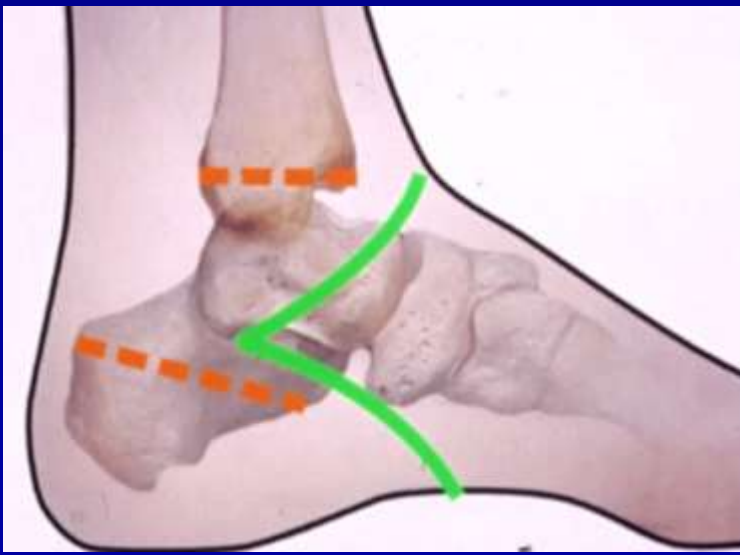


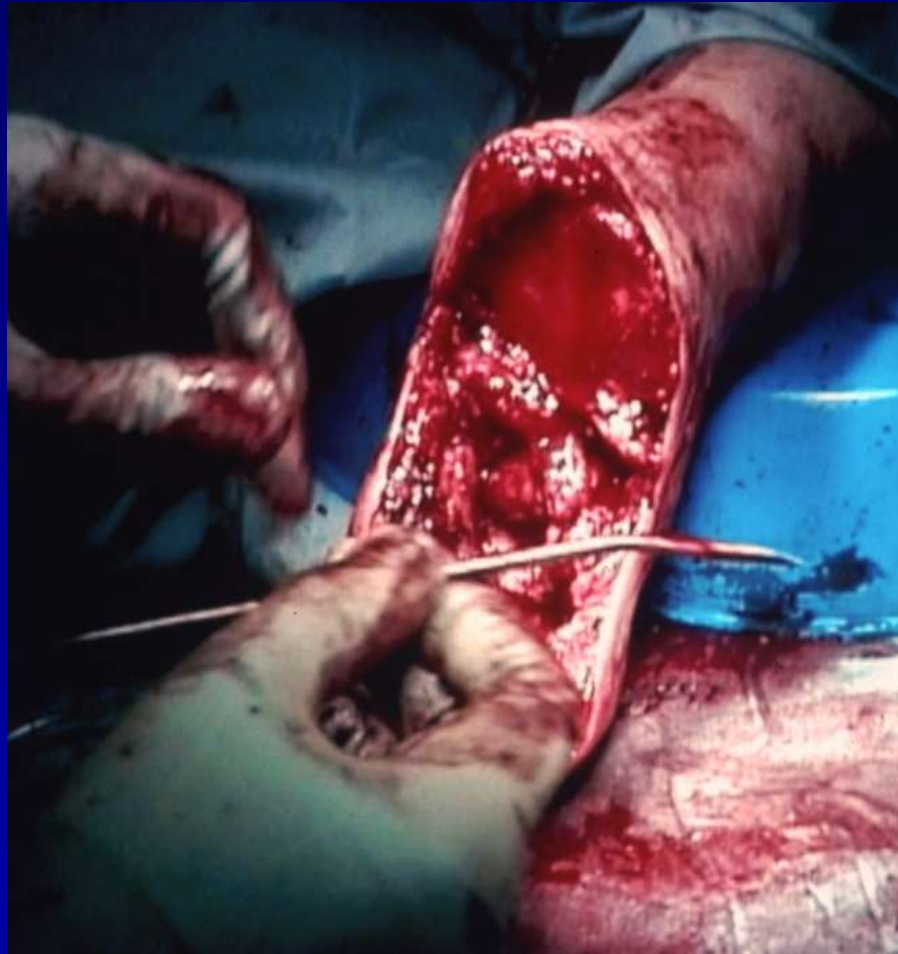
Mark Flaps in Dorsi Flexion



Syme's Amputation

Boyd Amputation





Unstable Syme Stump



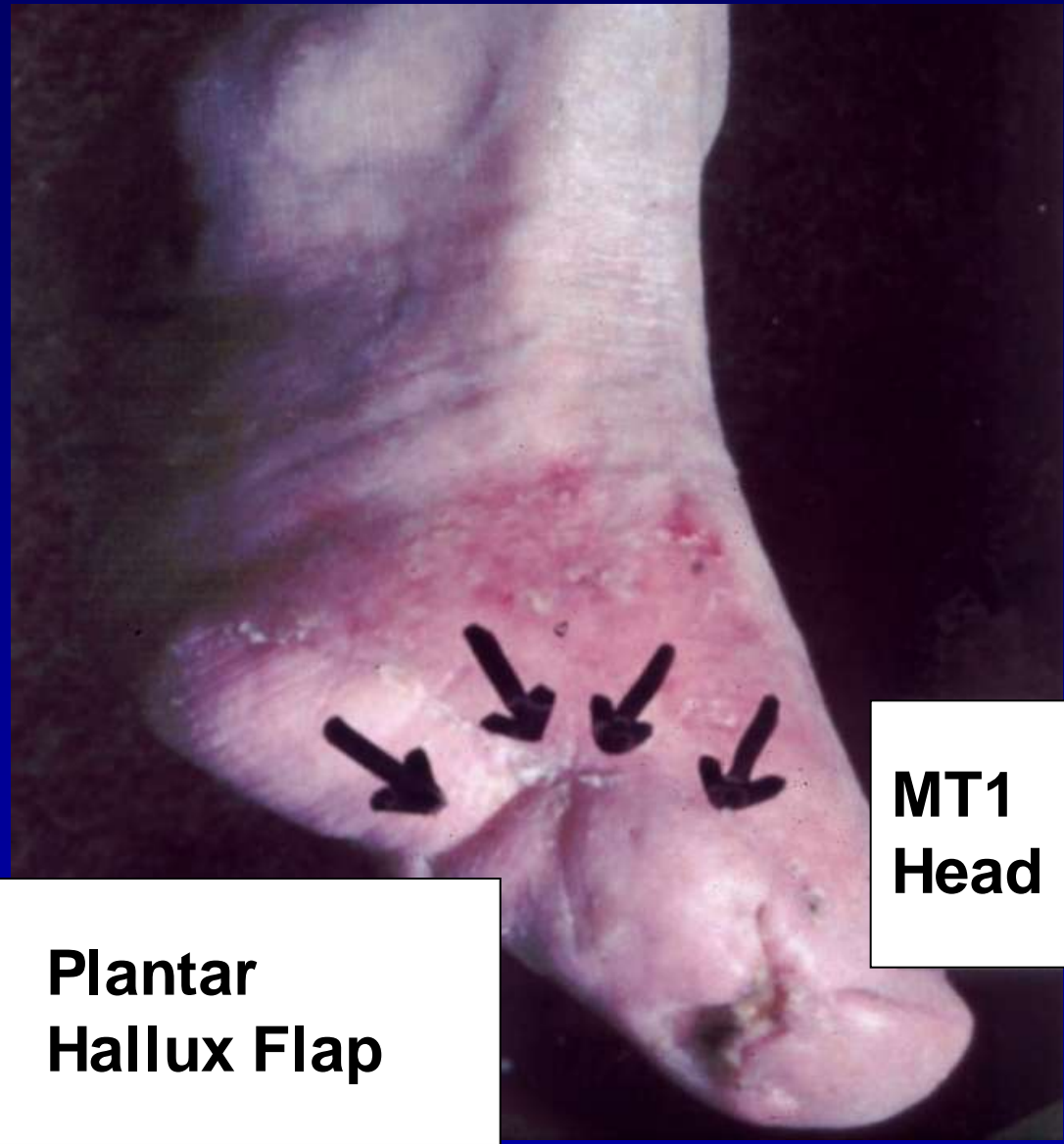
Always Apply Plaster Cast!

Syme Prosthesis



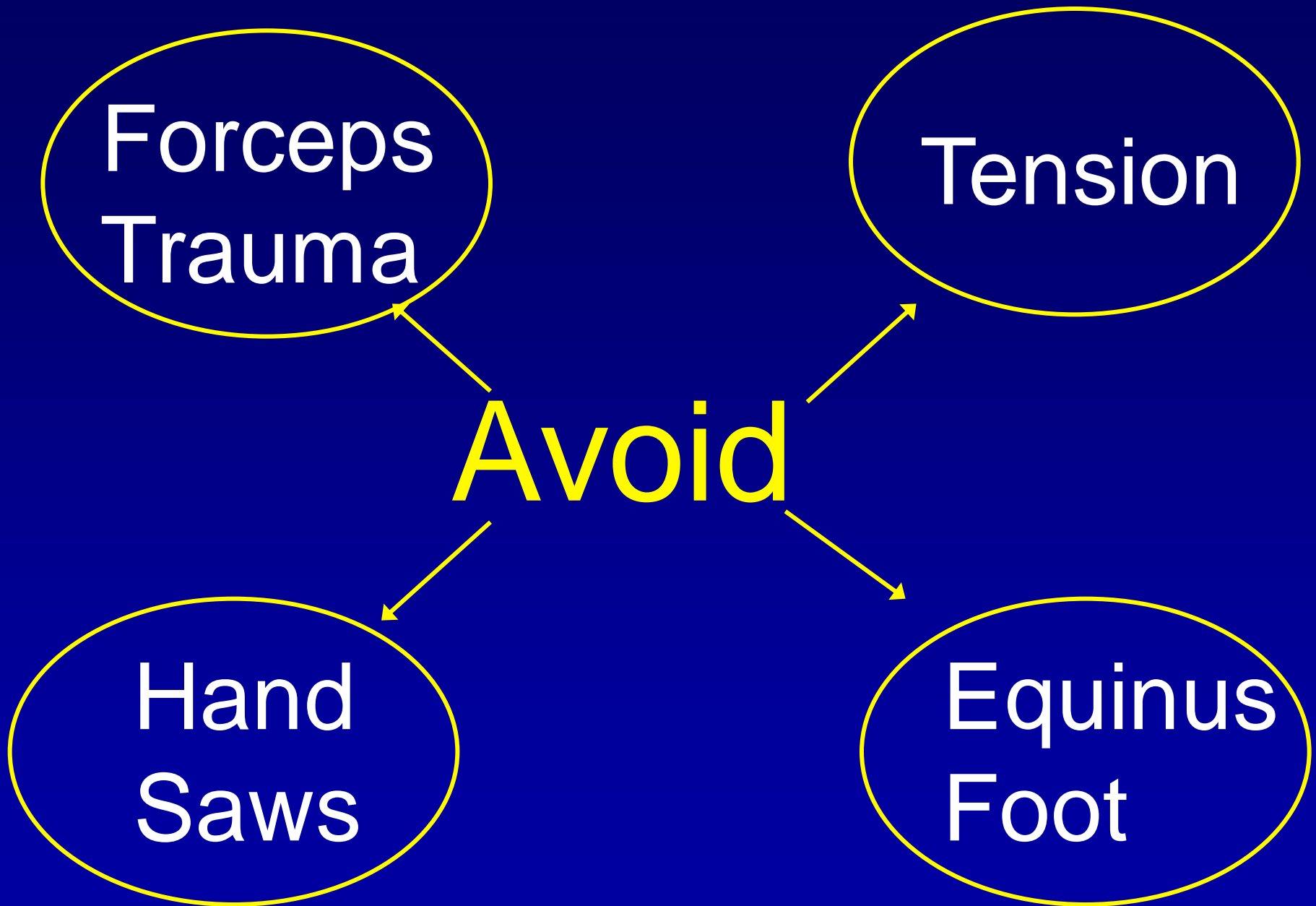
6 cms
Clearance

Do not
excise skin
deliberately



**Plantar
Hallux Flap**

**MT1
Head**



“The art of medicine consists of amusing the patient, whilst nature cures the disease”

Voltaire

“Everyone is allowed to be a sucker once.”

Clint Eastwood



Nothing is new, only the history you do not know. Harry Truman