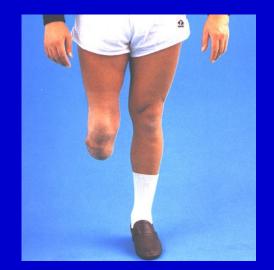
Amputation

Z. Rozkydal

Amputation

Removal of periphery part of the limb at a level of the bone



Obr. 1. Amputation in the calf



Removal of periphery part of the limb at a level of the joint



Obr. 2. Disarticulation in the knee joint

Indications

- Severe ischemia
- Severe trauma
- Infection with sepsis
- Malignant tumors
- Congenital diseases
- Neuropathies leading to deep trophic ulcers



Obr. 3. deep necrosis in the calf

Preop. assessment

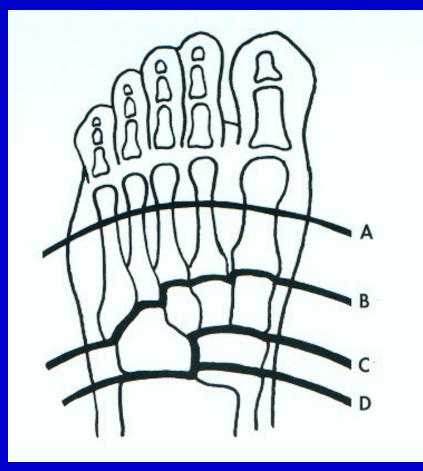
Individual access Angiography General condition Occupation Level of amputation- consultation

Technique

Turniquet Safe surgical approach Carefull ligating of vessels Myoplastic surgery - suture of muscles end to end Dreinage of the wound Enough soft tissues Good skin coverage



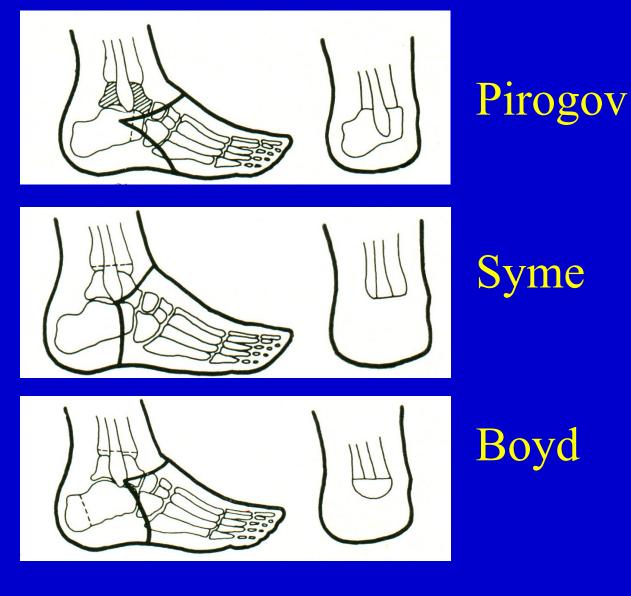
Amputation in the foot



Phalanx Toes A- Metatarsals- Sharp B- Lisfranc C- Bon-Jäger D- Chopart

Level of amputation in the foot

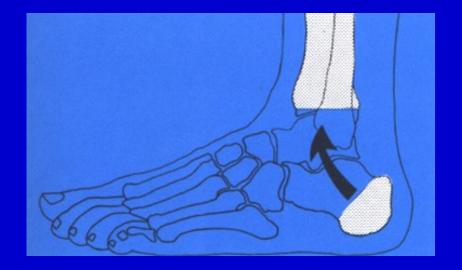
Amputation in the foot and in the ancle



Amputation in the foot and the ancle

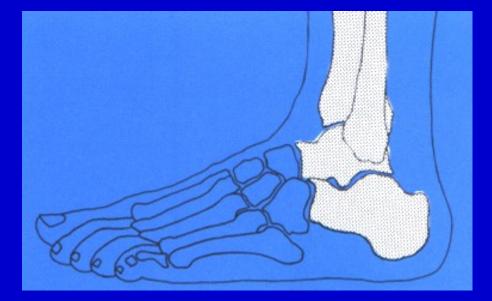


Amputation in Lisfranc joint

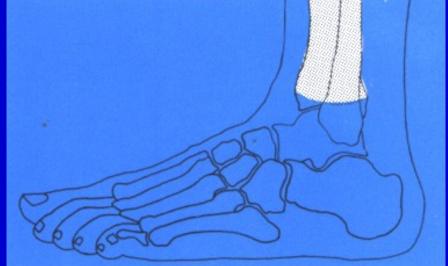


Pirogov amputation

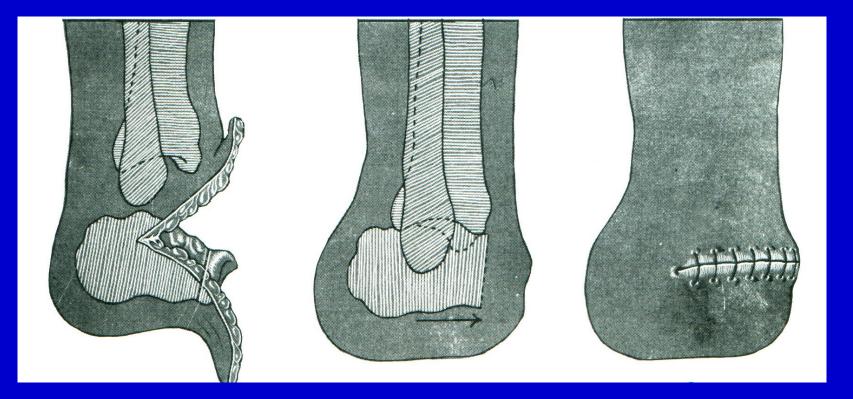
Amputation in the foot and the ancle



Amputation in Chopart joint



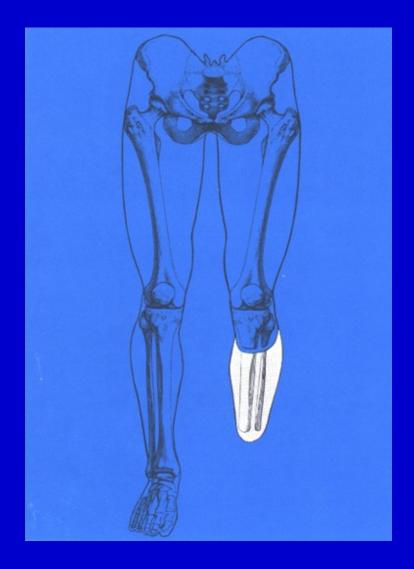
Syme amputation



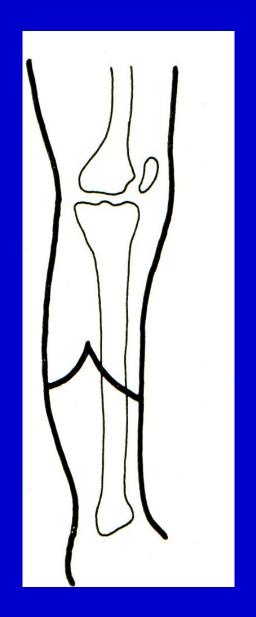
Boyd amputation

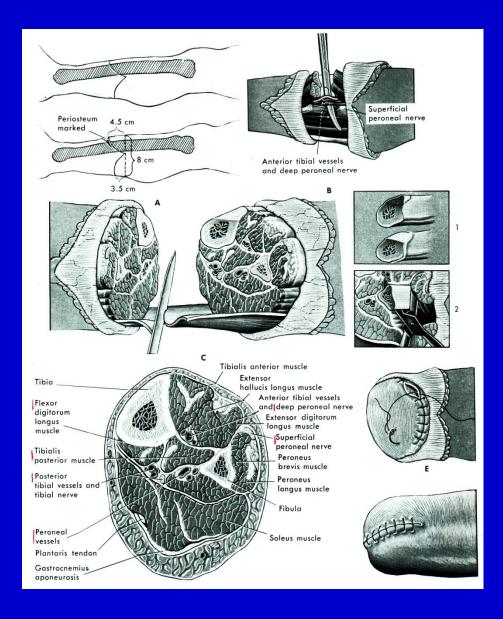
Bellow knee amputation

8-15 cm bellow knee joint line



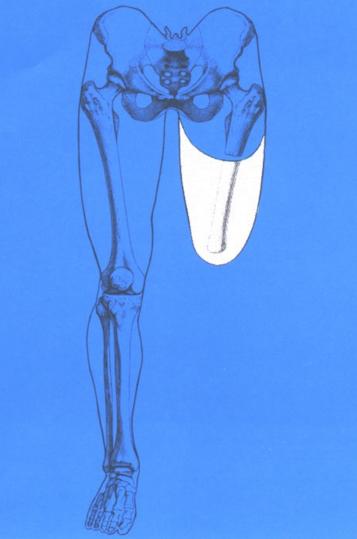
Bellow knee amputation



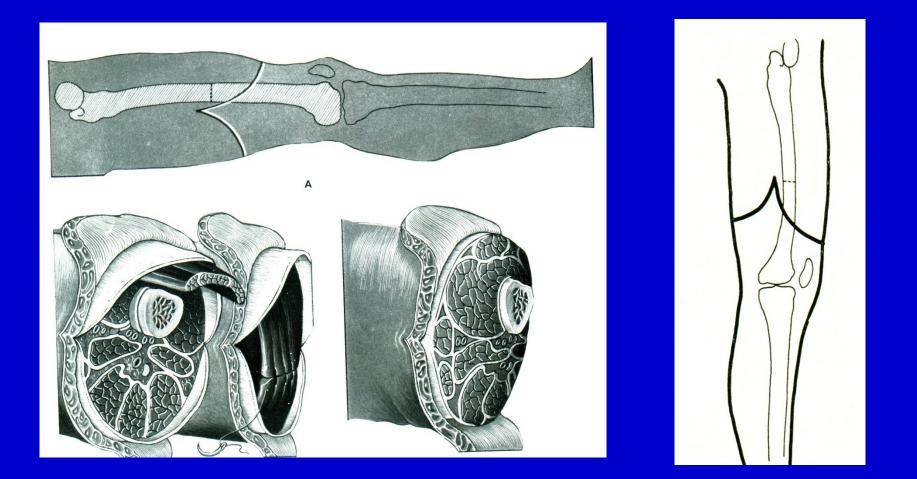


Above knee amputation

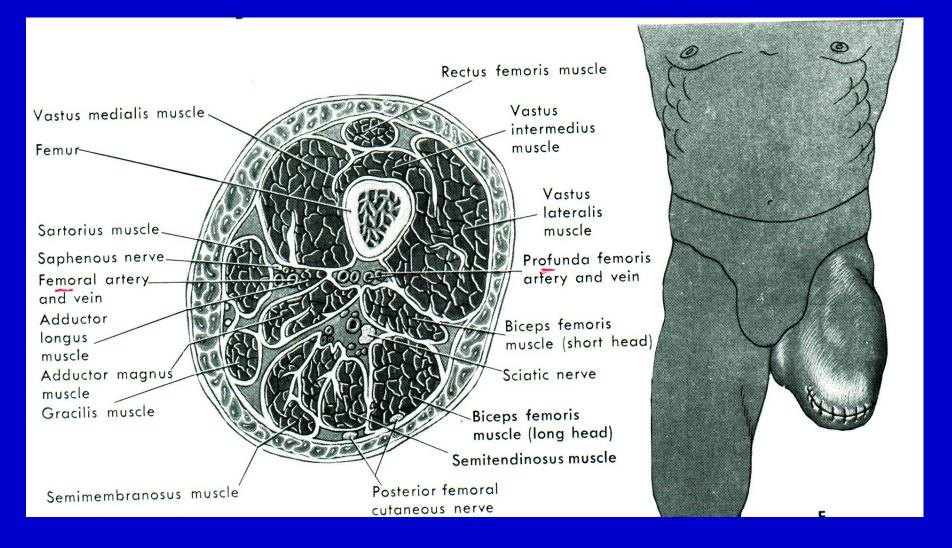
In the middle third of the thigh



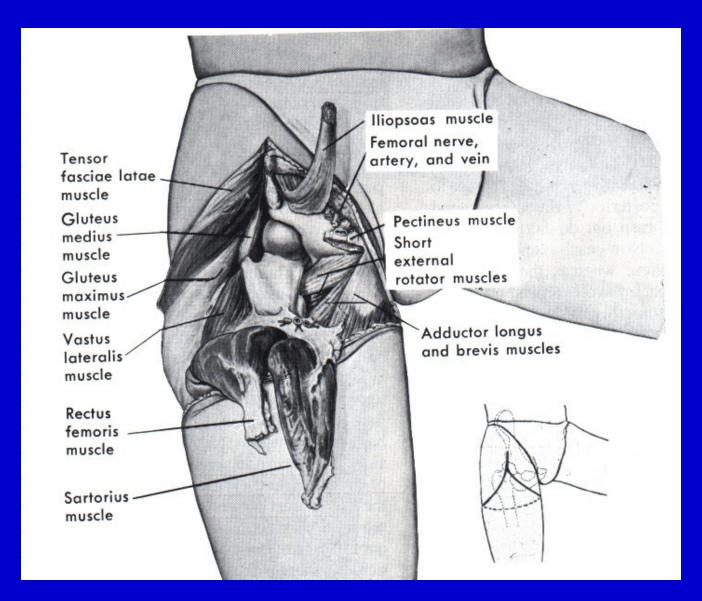
Above knee amputation



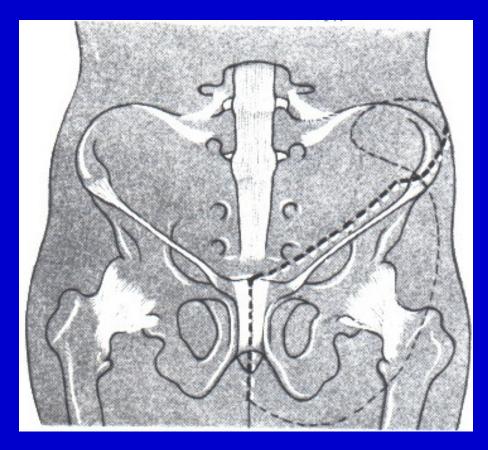
Above knee amputation

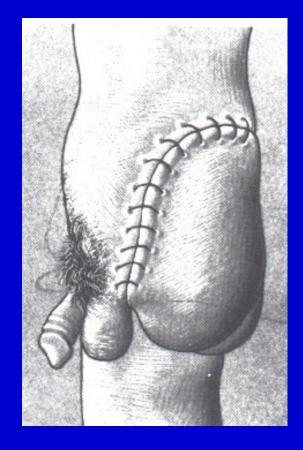


Disarticulation of the hip



Hindquarter amputationhemipelvectomy



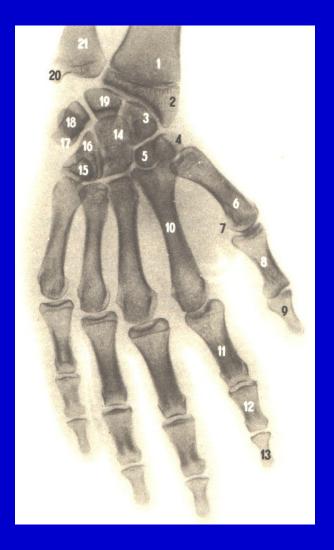


Amputation in the hand

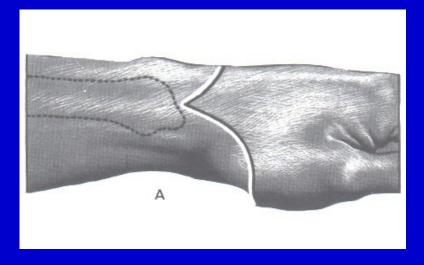
Phalanx

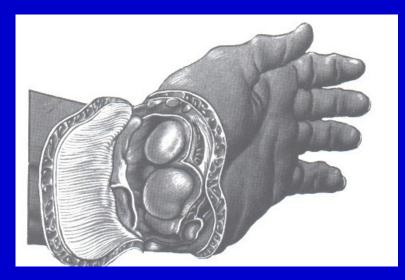
Fingers

Metacarpals

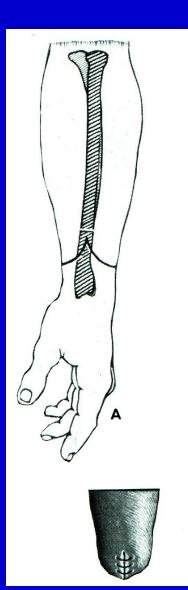


Disarticulation in wrist joint

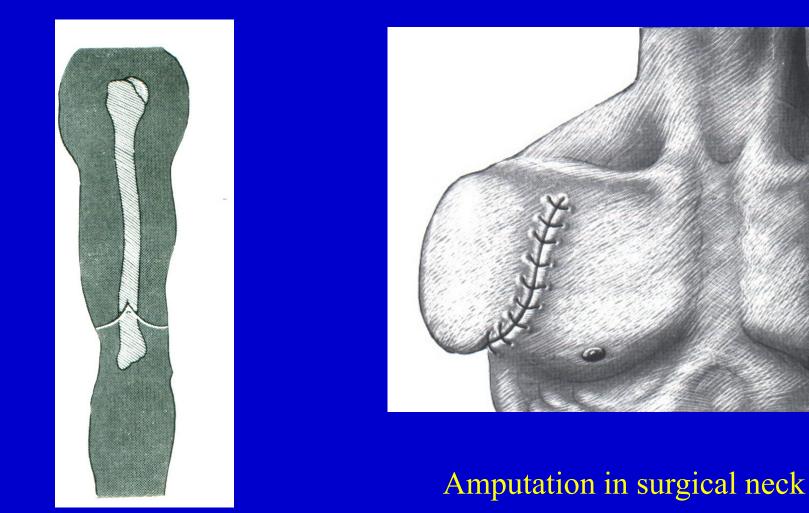




Amputation through forearm

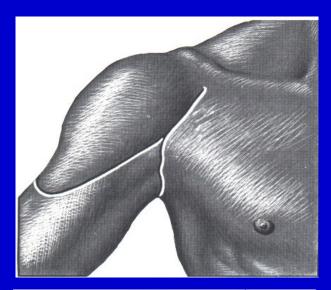


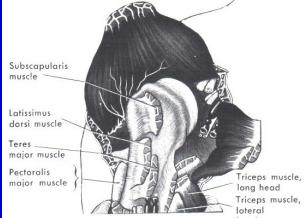
Amputation through arm

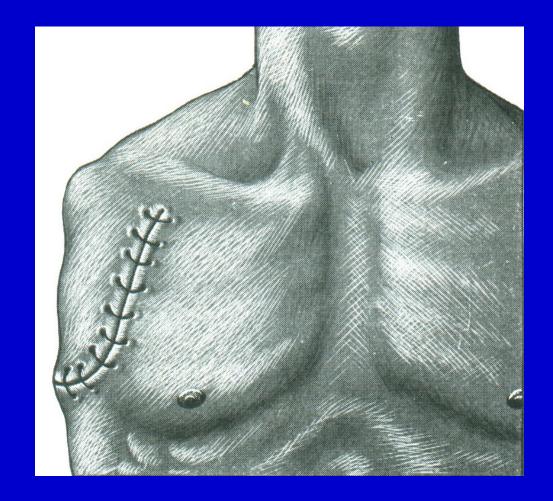


Above elbow amputation

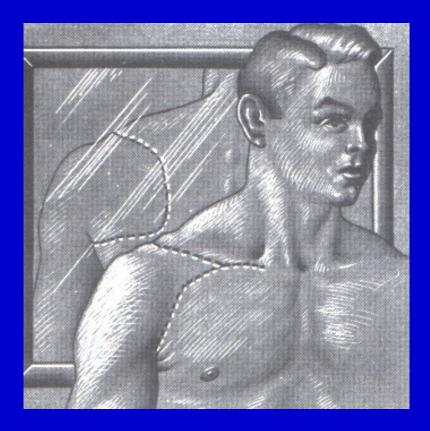
Disarticulation in the shoulder

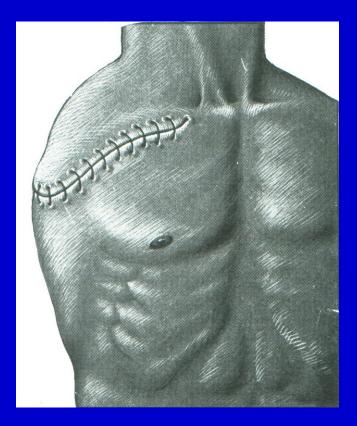






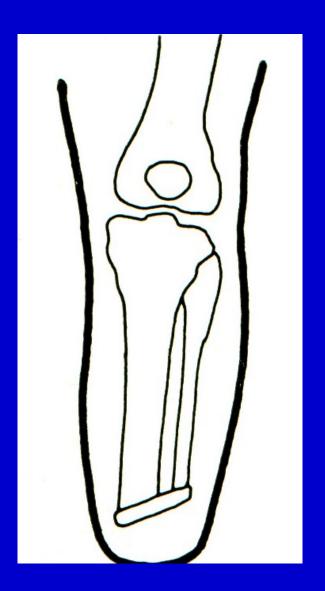
Forequarter amputation





Interthoracoscapular amputation

Osteoplastic amputation



Gilotine amputation

War surgery One level cut of all structures No suture of the wound Requires reamputation

Post op. management

Elastic bandage to conical shape Positioning Prevention of flexion contracture Proprioception Exercise in bed Verticalisation Walking





Good quality stump

Enough soft tissues

Strong muscles

Ability to walk



Disarticulation in the knee region



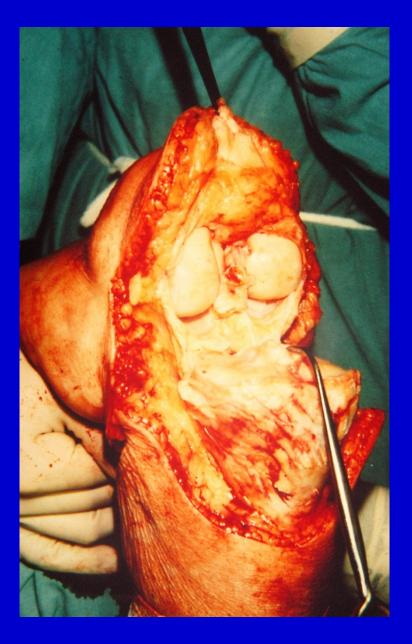


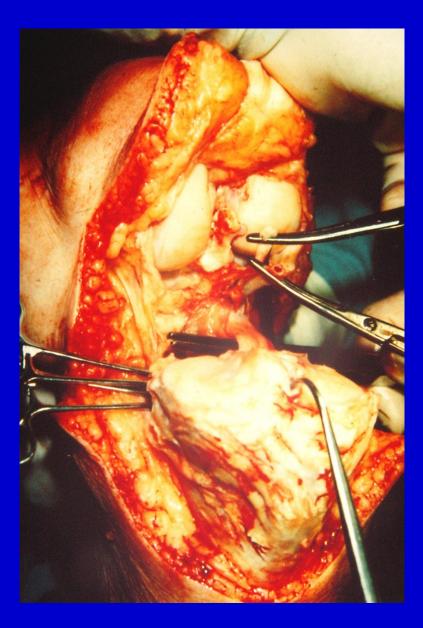
Skin incision



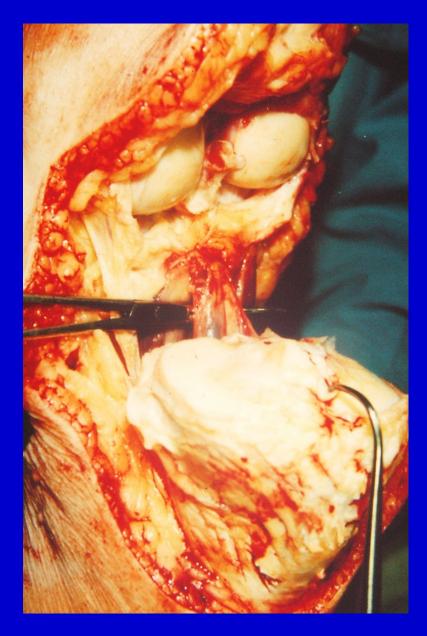


Joint capsule incision, elevation of the patella





Dissection of posterior joint capsule, section of tibial nerve



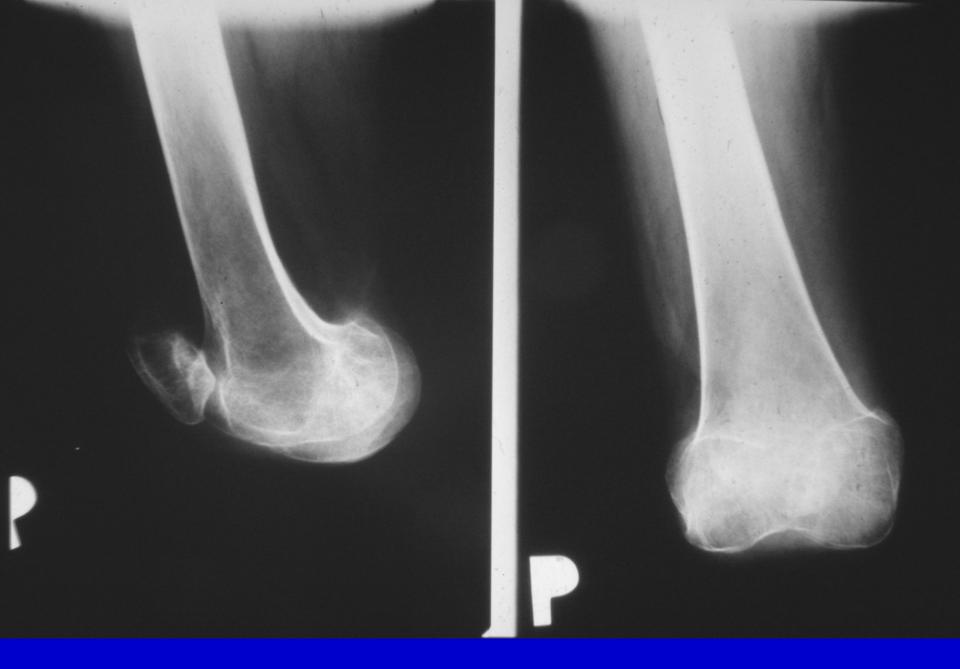


Ligation of popliteal vessels, removal of the limb

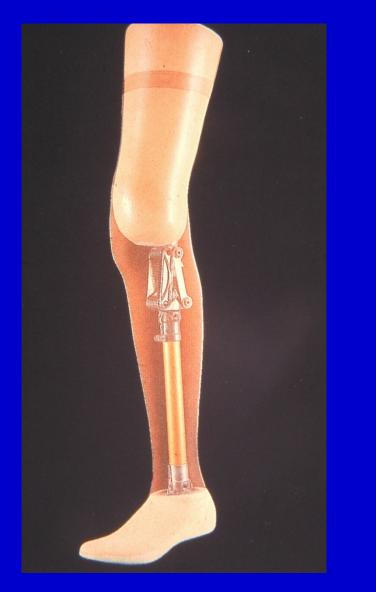
Suture withount tension



Suture of the wound, healed stump



X - ray after disarticulation





Prosthesis after disarticulation of the knee region