# Amputation

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# 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