

Limb Injuries II

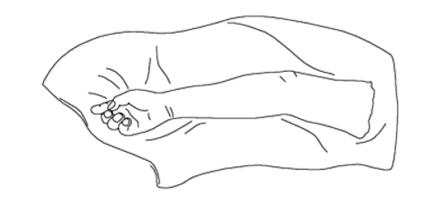
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Learning Objectives

- Student will learn about amputation and semiamputation.
- Student will learn about other limb injuries and their first aid.



Amputation, semi-amputation



Loss of part of limb / incomplete amputation

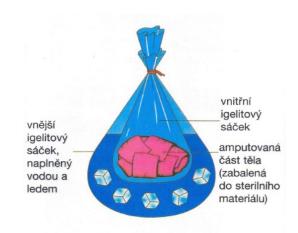
First Aid:

- Stop bleeding on the injured limb
 - massive bleeding = arms, thigh → tourniquet
 - fingers, forearms → pressure bandage.
- Transport the patient for treatment by EMS
- Care to the amputated body part
- Prevent fainting



Amputated tissue

- Do not hurt yourself! Take gloves.
- Rinse off the dirt.
- Cover with gause.
- Put it into a plastic bag.
- Put all into another bag of water and ice cubes
- Wet, but not soaked.
- Cool, but not frozen.



First Aid











Wet and cool

but not frozen







A moment of inattention ...







- Hours of operation
- Weeks of rehabilitation



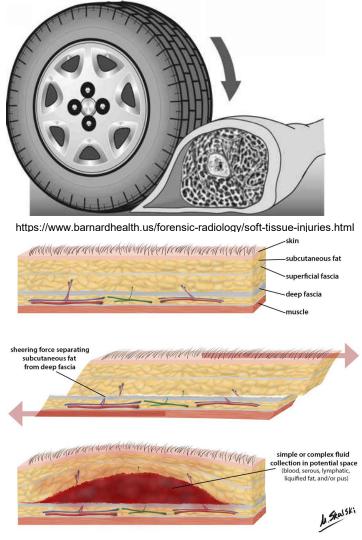
Replantation





Decollment

- Undesired separation of two or more physiologically and functionally fused structures
- Subcutaneous hemorrhage
- Pale skin poorly perfused
- FA: immobilization, EMS

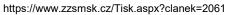


Case courtesy of Dr Matt Skalski, Radiopaedia.org, rID: 22762



Crush syndrome







Crush syndrome

backfilling, earthquake

Cause:

- ischemia of muscles and other soft tissues,
- leakage of fluid into the tissues
- absorption of substances from damaged tissues

Symptoms:

- soft tissue swelling
- hypovolemic shock
- later renal failure

FA: **S**SSABC

- Extrication
- transport by EMS



https://www.zzsmsk.cz/Tisk.aspx?clanek=2061



Acute limb artery occlusion

- Pain,
- Cold, pale skin
- Paresthesias / anesthesia
- Paralysis
- No pulsation on periferal artery, prolonged CRT

FA:

- sit up, hang the limb below
- do not eat, drink, smoke
- -EMS





https://www.cevnitesin.cz/index.php/cs/propacienty/nemoci-tepen



Learning Outcomes:

- Student masters first aid during amputation.
- Student is able to recognize the symptoms of backfill syndrome.
- Student is able to describe the symptoms of acute limb artery occlusion.



Resources

- http://www.solen.cz/pdfs/med/2009/04/12.pdf
- https://www.wikiskripta.eu/w/Crush_syndrom
- https://www.medicinapropraxi.cz/pdfs/med/2011/10/08.pdf



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