

TRAVMADA AMPUTASYON

Afyon Kocatepe Üniversitesi
www.umke.org

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- Amputasyon en eski cerrahi girişimdir
- Cerrahi teknik savaş dönemlerinde geliştirilmiştir
- Çok eski tarihlerde amputasyon anestezi yapılmamış bir hastada kısa sürede bitirilen “acımasız” bir cerrahi girişimden ibaretti
- Hemostaz elde etmek için açık güdük ezilir ya da kaynayan yağın içine batırılırdı
- Mortalite oranı yüksekti

- Hipokrat ilk kez amputasyonda str kullanmıř
- 16. Yzyılda bir Fransız askeri cerrah olan Ambroise Pare damar baęlama yntemiyle mortaliteyi ciddi oranda azalttı
- 1674 Turnike.....Morel
- 1867 Antiseptik teknik.....Lord Lister
- 19. Yzyıl sonları genel anestezi
- 20. Yzyıl modern protezler

Amputasyon Endikasyonları

- Travma
- Geri dönüşümsüz iskemi
- Kompartman sendromu
- Periferik vasküler hastalık
- Yanık
- Donma
- Enfeksiyon
- Tümörler

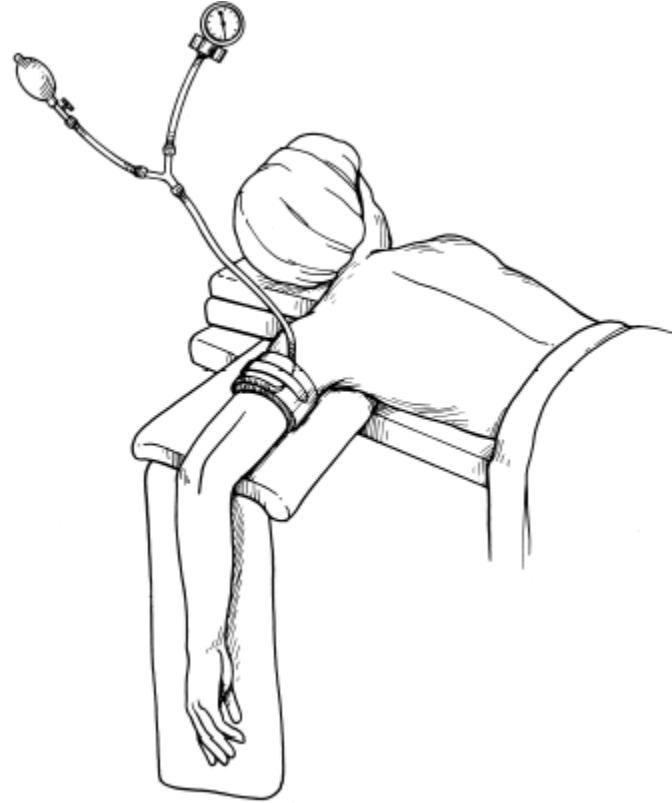
AMPUTASYON/EKSTREMİTE KURTARMA??

- **Type Characteristics Injuries Points**
- **SKELETAL/SOFT TISSUE GROUP**
- 1 Low energy Stab wounds, simple closed fractures, small-caliber gunshot wounds 1
- 2 Medium energy Open or multiple-level fractures, dislocations, moderate crush injuries 2
- 3 High energy Shotgun blast (close range), high-velocity gunshot wounds 3
- 4 Massive crush Logging, railroad, oil rig accidents 4
- **SHOCK GROUP**
- 1 Normotensive hemodynamics Blood pressure stable in field and in operating room 0
- 2 Transiently hypotensive Blood pressure unstable in field but responsive to intravenous fluids 1
- 3 Prolonged hypotensive Systolic blood pressure less than 90 mm Hg in field and responsive to intravenous fluid only in operating room
- 2
- **ISCHEMIA GROUP**
- 1 None A pulsatile limb without signs of ischemia 0 *
- 2 Mild Diminished pulses without signs of ischemia 1 *
- 3 Moderate No pulse by Doppler, sluggish capillary refill, paresthesia, diminished motor activity
- 2 *
- 4 Advanced Pulseless, cool, paralyzed and numb without capillary refill 3 *
- **AGE GROUP**
- 1 <30 years 0
- 2 30 to 50 years 1
- 3 >50 years 2

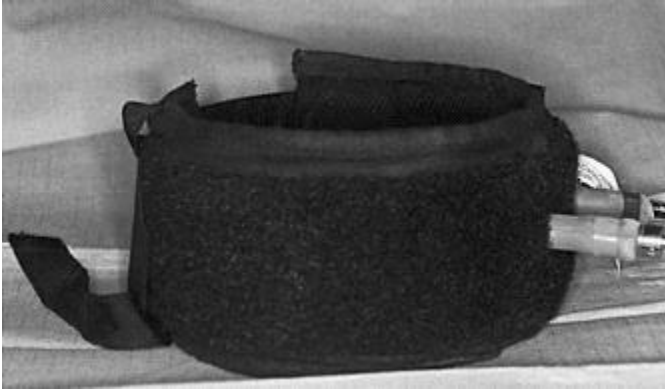
AMPUTASYON/EKSTREMİTE KUTARMA??

- Eğer MESS (mangled extremity severity score) 7 ve üzerinde ise amputasyon yapılması önerilmektedir

AMPUTASYON TEKNİĞİ – TURNİKE KULLANIMI



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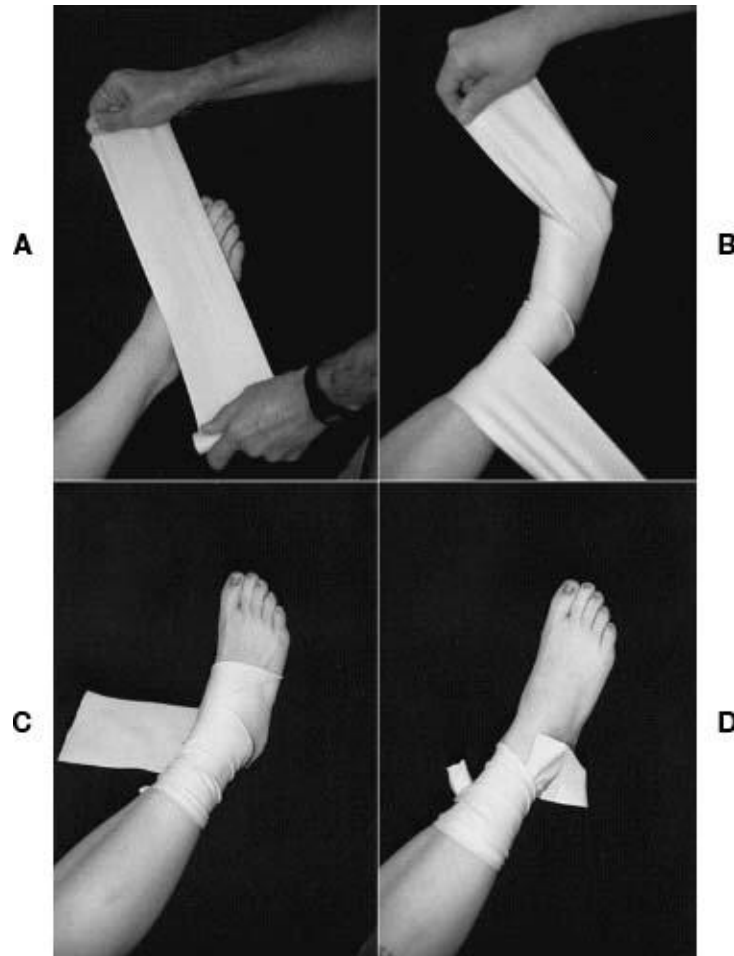


- Ortopedik cerrahide kullanılan turnikeler
- Tansiyon aleti
- Mayi sıkma aleti
- Esmarch bandajı
- Elastik bandaj
- Cerrahi eldiven

Turnike Uygulaması

- Turnike normalde venöz kan boşaltıldıktan sonra sıkılır. Ancak operasyon alanında her zaman bu mümkün olmayabilir
- Venöz kanı boşaltmak için en basit yöntemlerden birisi ekstremiteyi 3 dk havada tutmaktır
- Esmarch bandajı ile de venöz kan boşaltılabilir
- Yanlış uygulanan turnike kanamayı azaltacağına artırabilir!!

Esmarch Bandajı





Amputasyon Seviyeleri

Üst Ekstremitte

- Parmak
- El (transmetacarpal)
- El bileği dezartikülasyonu
- Ön kol
- Dirsek dezartikülasyonu
- Kol
- Omuz dezartikülasyonu
- Forequarter

Alt Ekstremitte

- Parmak
- Ayak (transmetatarsal, lisfranc , chopart)
- Ayak bileği dezartikülasyonu
- Diz altı
- Diz dezartikülasyonu
- Diz üstü
- Kalça dezartikülasyonu
- Hindquarter



Amputasyon Tekniđi

- Anestezi ?
- Balık ađzı cilt insizyonu
- Simetrik ya da asimetrik cilt flapleri
- Cilt - Cilt altı birlikte kalın flap olarak kaldırılır
- Fasiya, cilde paralel kesilir
- Kaslar

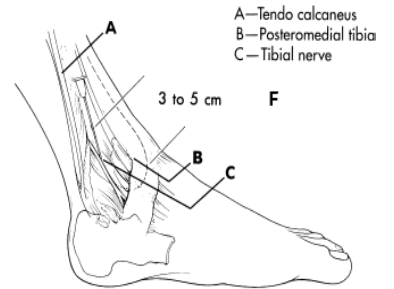
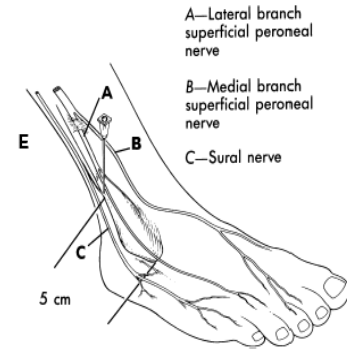
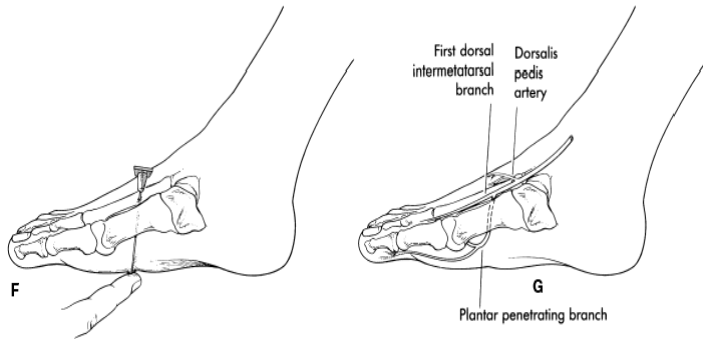
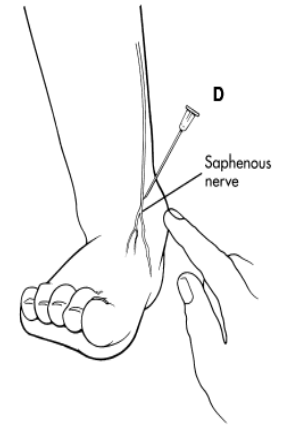
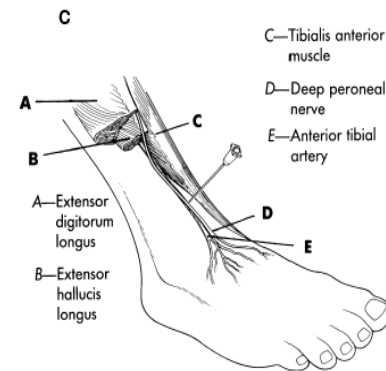
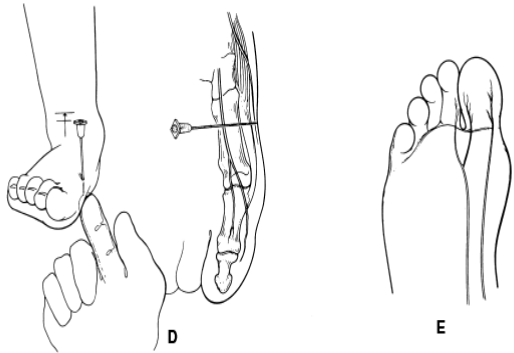
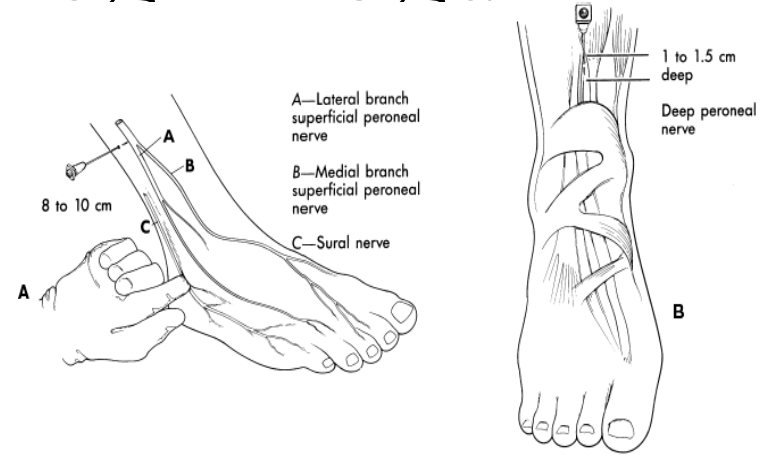
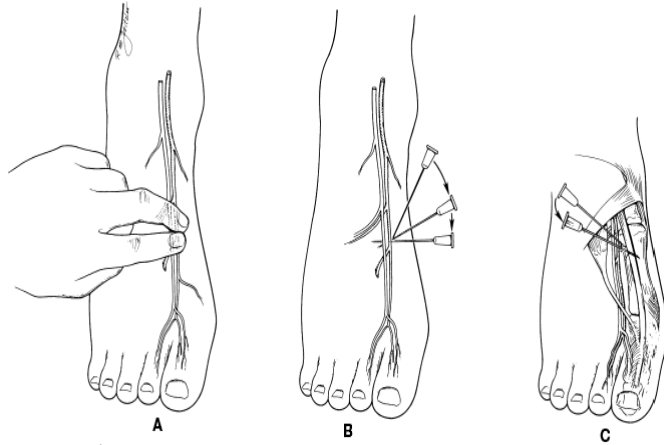
Amputasyon Tekniđi

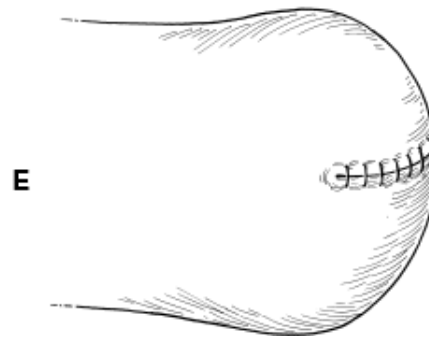
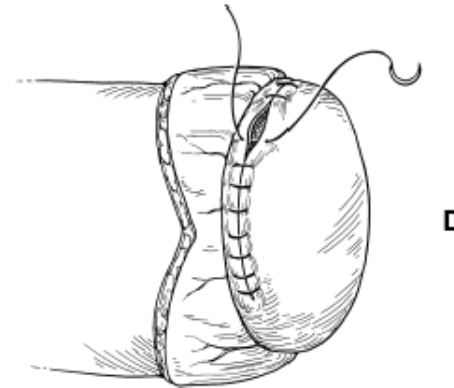
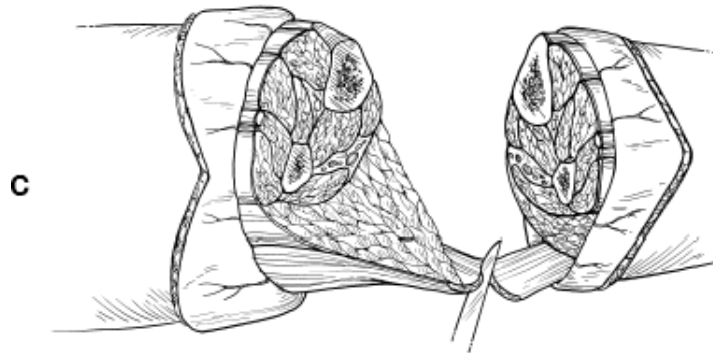
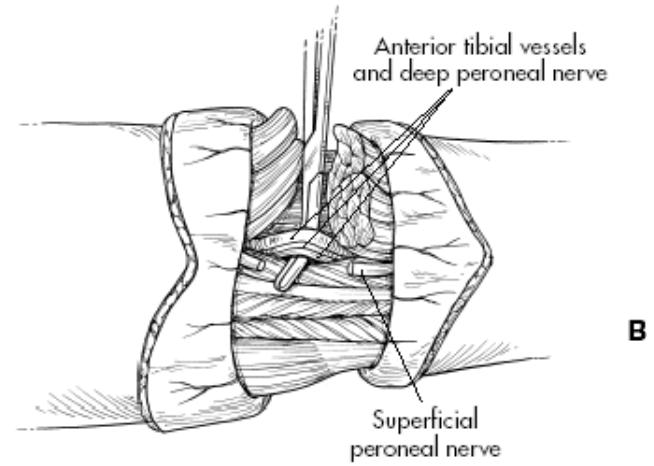
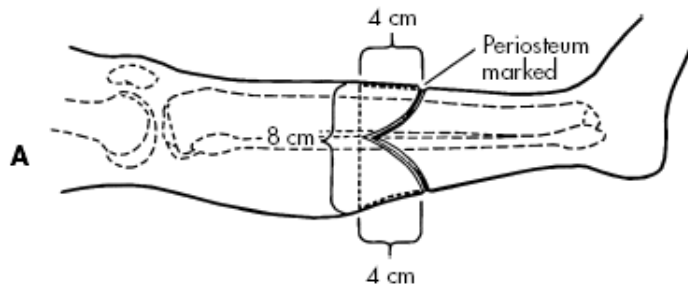
- Damar – Sinir paketlerinin bulunup bađlanması, kesilmesi
- Arter ve sinirler mümkün olduđunca proksimalden bađlanmalı
- Sinir, tek bir keskin bistüri darbesi ile kesilmeli
- Kemik kesisi

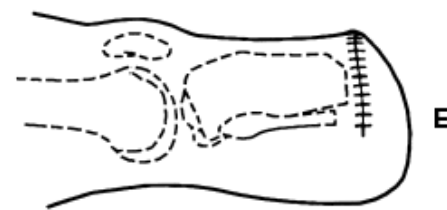
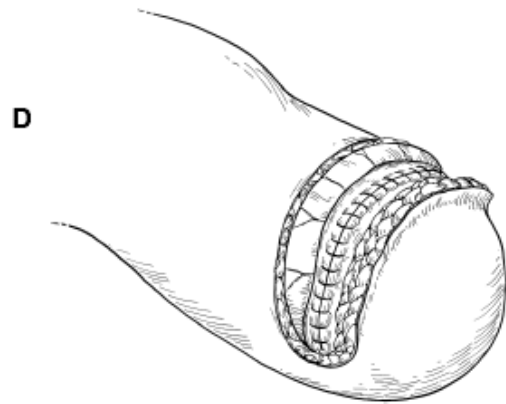
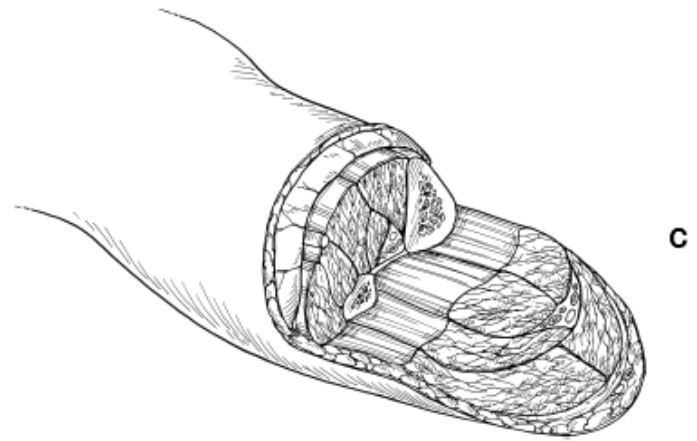
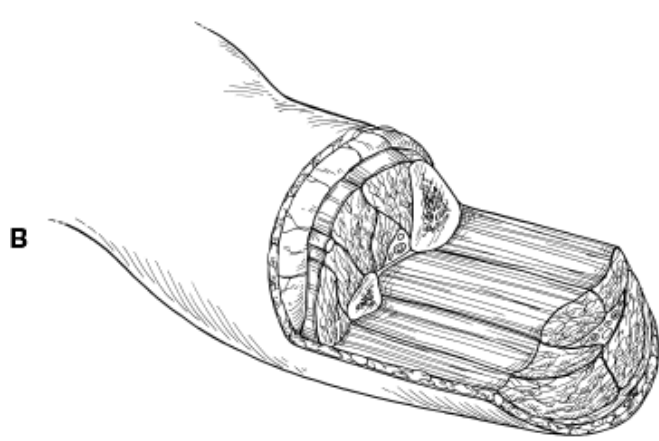
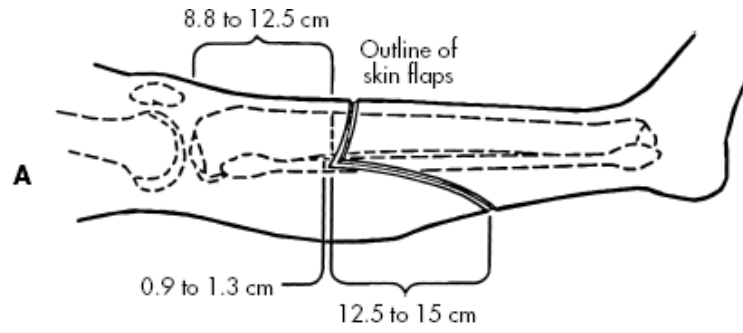
Lokal Anestezi

- Eğer yapılabilirse, operasyon yaralı için minimal travmatize edici ve rahat olur.
Yaralının ağrı şokuna girme olasılığı azalır
- Operatörün rahat ve hızlı çalışmasını sağlar, operasyon süresini kısaltır.

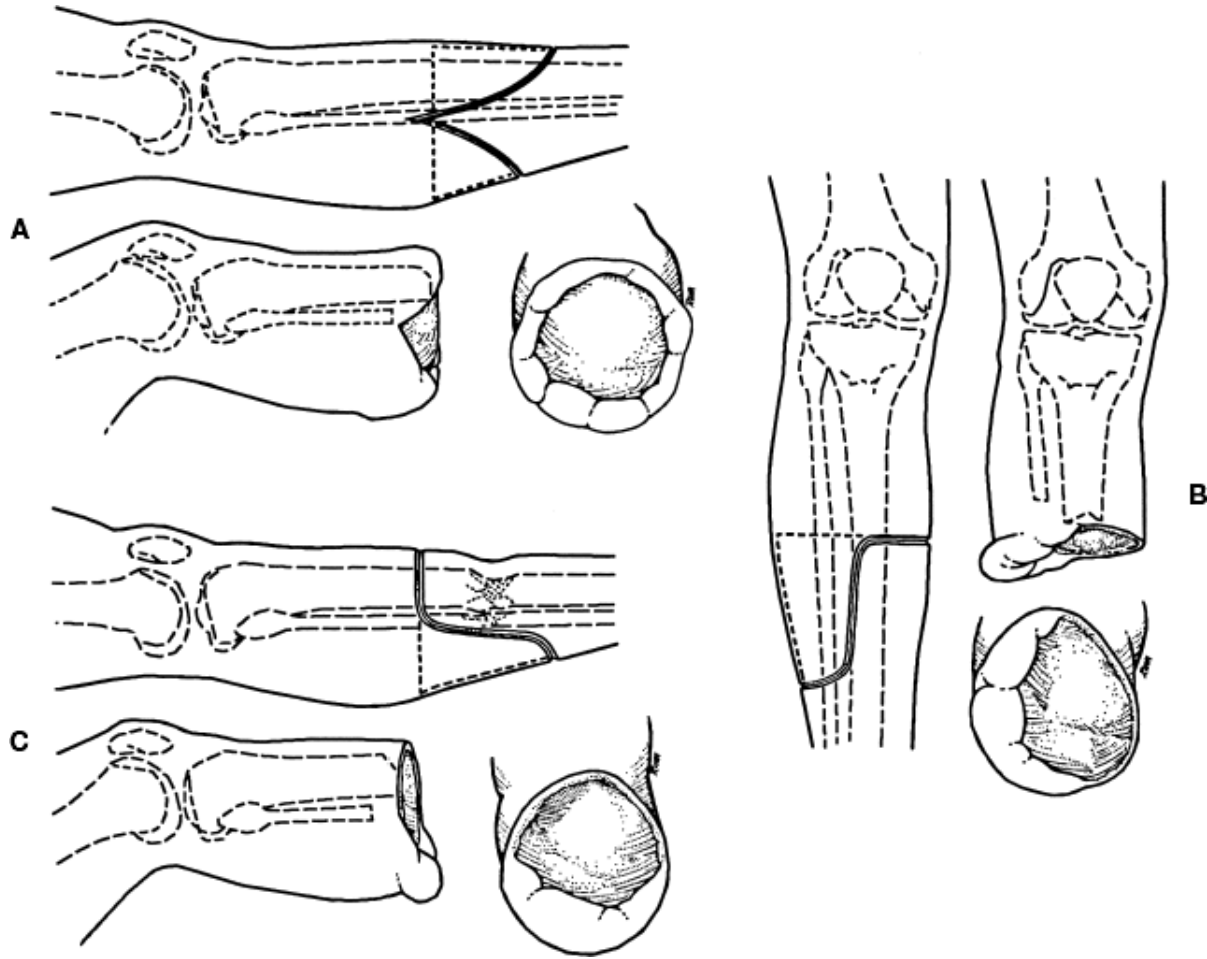
Ayak-Ayak Bileği Bloğu

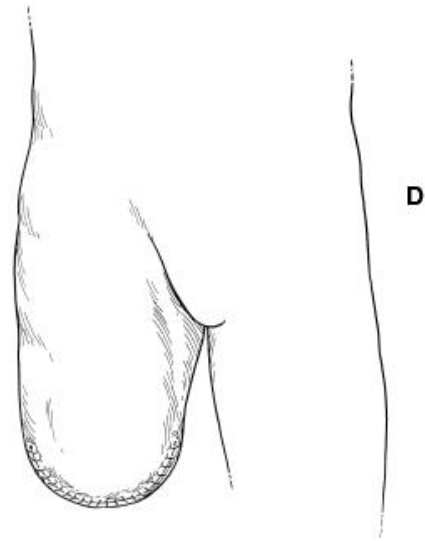
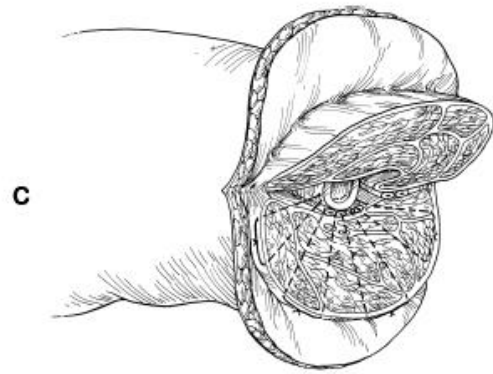
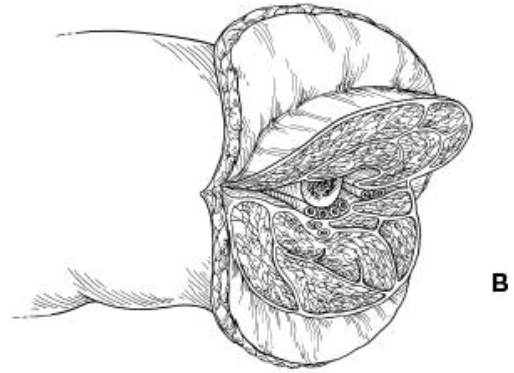
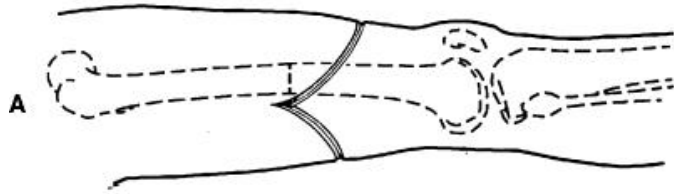


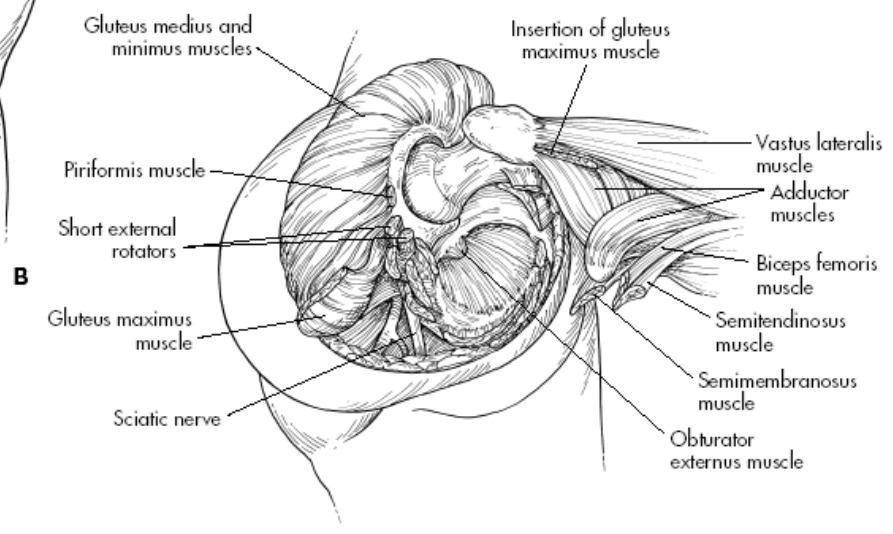
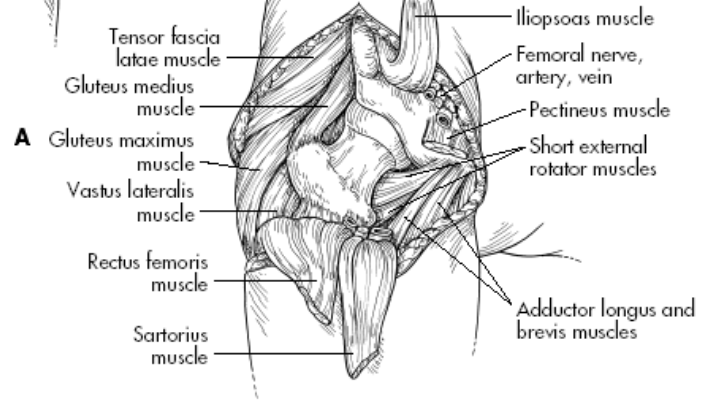
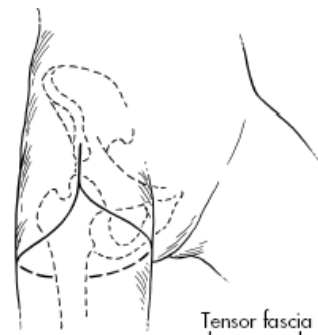




Açık Amputasyon







Excision level of first metatarsal if additional skin tension relief is needed



