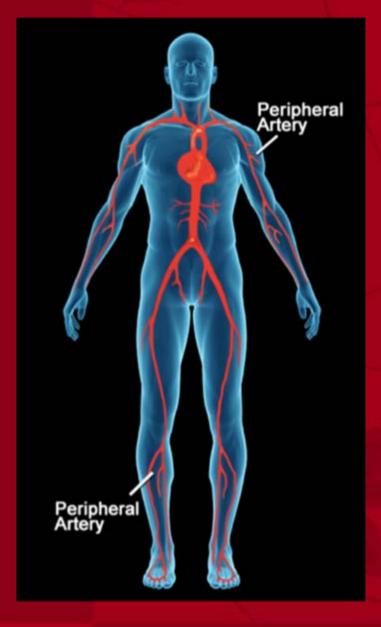
### Peripheral **Endovascular Therapy**

#### Subintimal balloon angioplasty and stenting

Dr. Prasad Jetty Vascular and Endovascular Surgeon The Ottawa Hospital



Université d'Ottawa | University of Ottawa

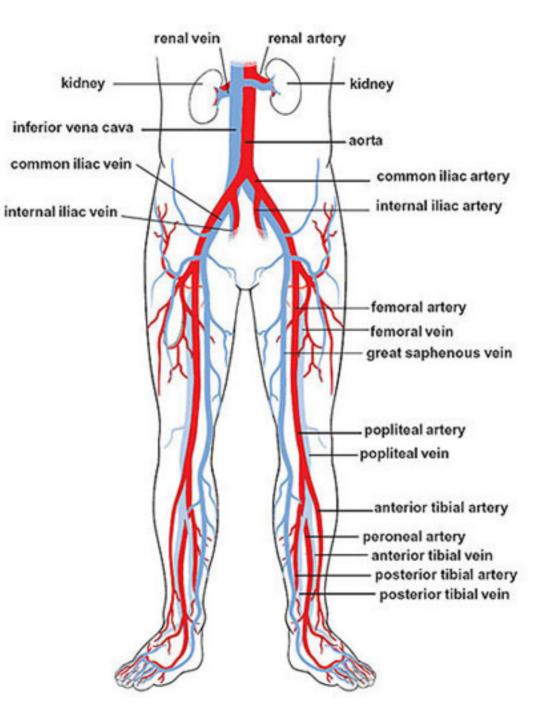


www.uOttawa.ca

### **SLUM DOG Millionaire**



Α Ν Α Т Ο Μ Υ



#### **Peripheral Vascular Disease**

- blockages in arteries to lower extremities due to atherosclerosis
- Risk factors
  - smoking
  - DM
  - HTN
  - hyperlipidemia
  - family history
  - obesity
  - sedentary
  - male gender





#### **Manifestations of PVD**



#### **CLAUDICATION**



#### **Intermittent Claudication**

- Inadequate supply of oxygenated blood with exertion
- Pain/ache/fatigue in the calf, thigh, or buttock muscles from exertion
- Patient usually has to stop walking for a few minutes
- From latin term "claudicatio" meaning to limp- first described in horses

Conservative management

#### **CRITICAL LIMB ISCHEMIA**



#### **Critical Limb Ischemia**

- Inadequate tissue perfusion of oxygenated blood at rest
- Night pain
- Rest pain
- Rubor
- Tissue loss
  - Ulcers
  - Gangrene





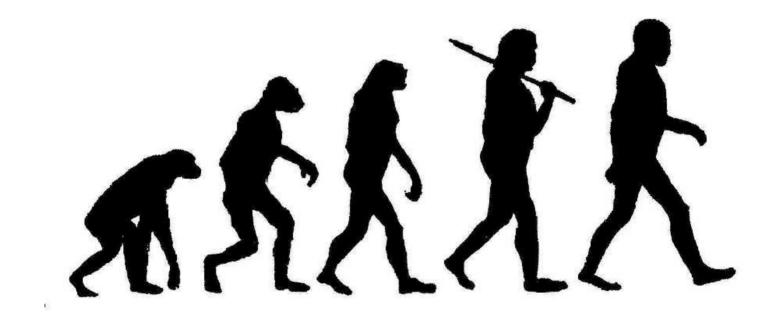




#### Treatment

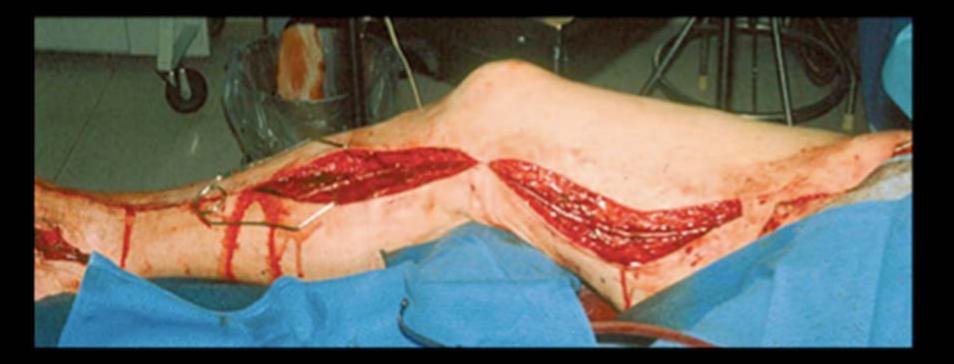


#### **Evolution of Vascular Surgery**





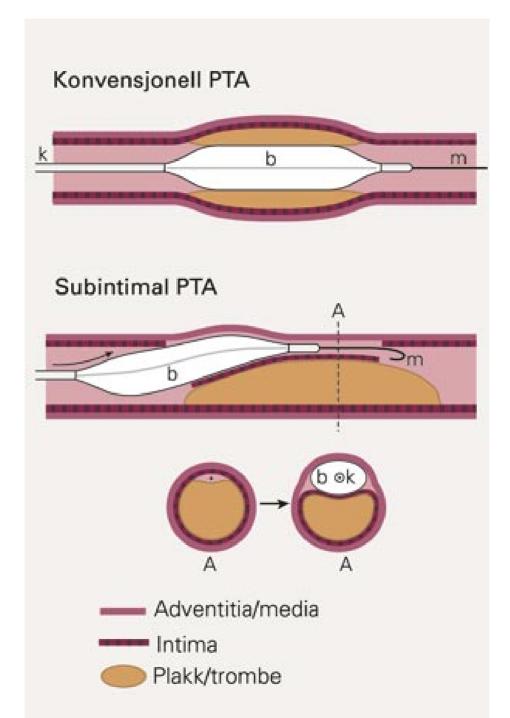


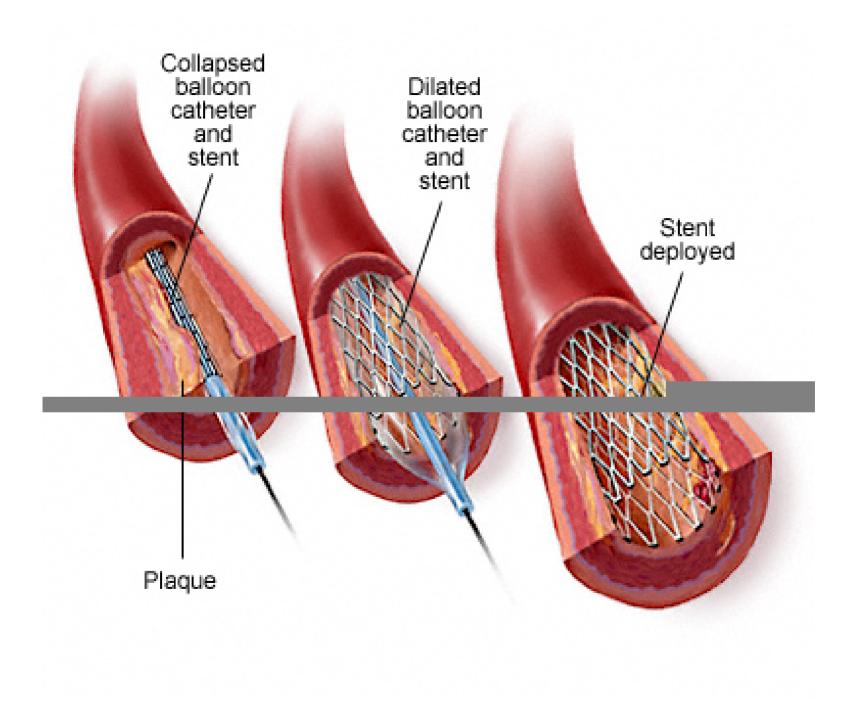






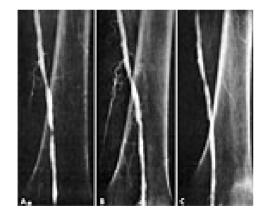






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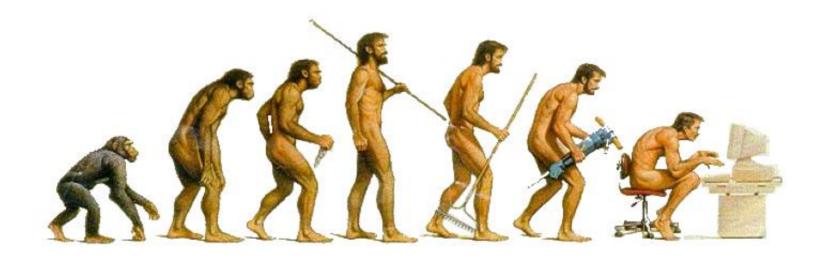








## Evolution



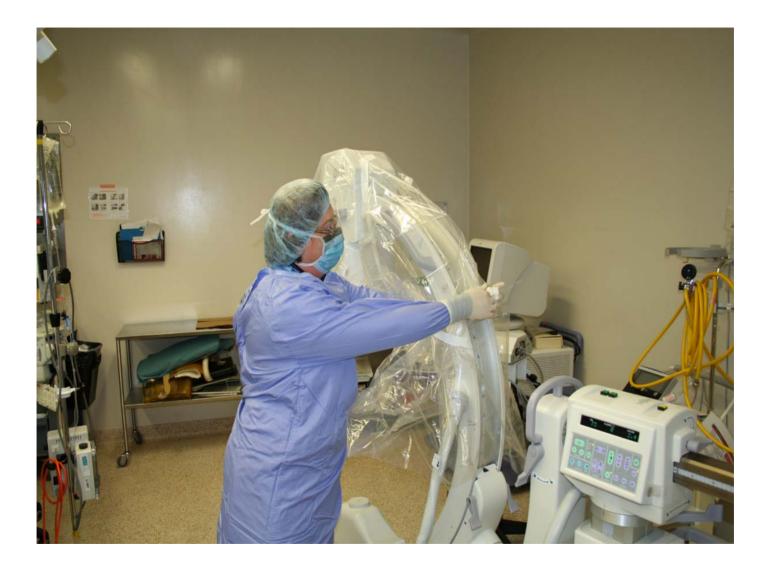
# (or is it?)











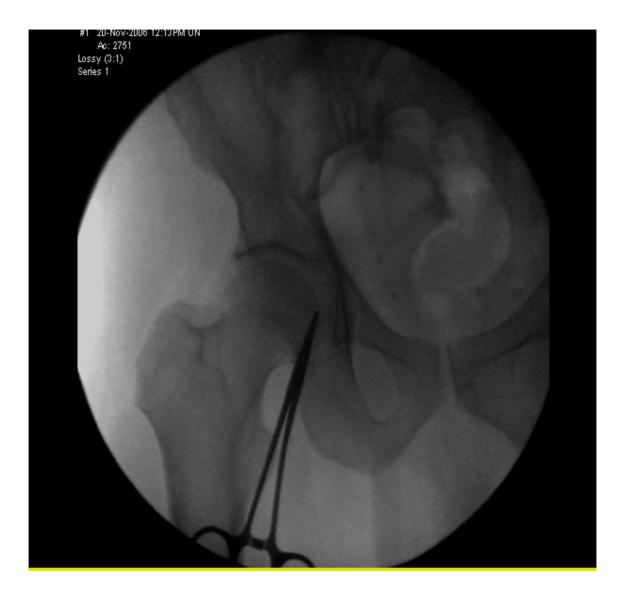
































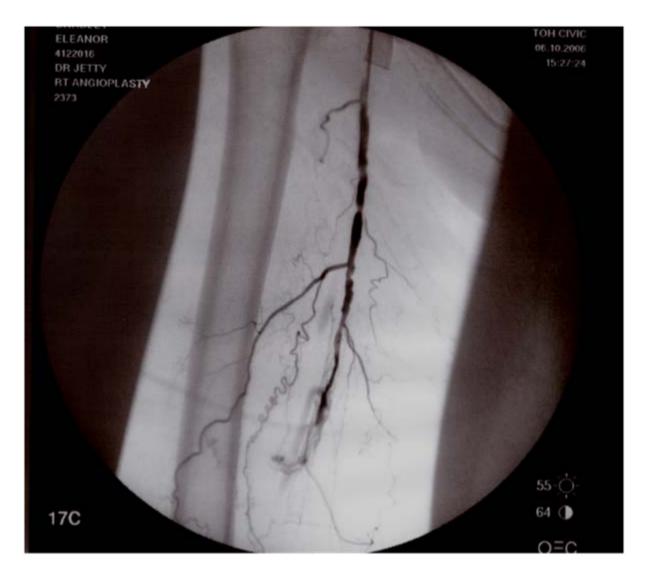




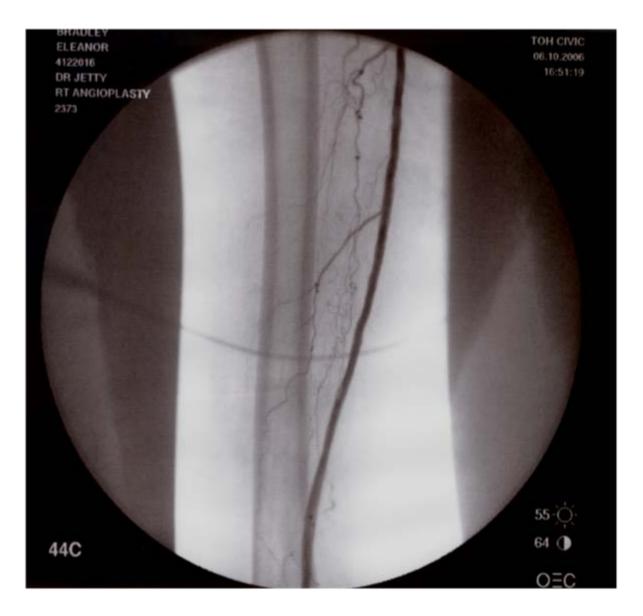














# **Durability and morbidity**

- Endovascular therapy
  - Less durable (70% at 1-2 years)
  - Can be repeated
  - Minimally invasive
  - Outpatient procedure
  - Surgical bypass is always an option
- Open surgical bypass
  - More durable (70% at 4-5 years)
  - More difficult to repeat
  - Invasive and morbid
  - Inpatient procedure





#### **Endovascular suites**



