

## Introduction

- 5000 patients year<sup>-1</sup> UK
- High mortality and morbidity
  - Mortality upto 50%
    - (especially embolic causes)
  - Morbidity
    - amputation
    - renal failure etc.

## Causes

- Thrombosis native arteries or grafts (60%)
- Embolism (35%)
- Trauma (5%)

## Causes

- Thrombosed aneurysm
- Aortic dissection
- Intrarterial injection
- Popliteal entrapment
- Arterial trauma
- Iatrogenic

## Clinical features

- Pain
- Pallor
- Perishing with cold
- Pulseless
- Parasthesia
- Paralysis

## Clinical features

### Ischaemic time

Skin	> 48hrs
Permanent muscle damage	> 6hrs
Nerve damage	> 30 mins

## Important points - History

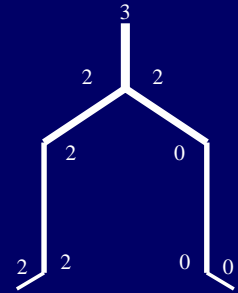
- Duration/severity of symptoms
- Previous history of PVD
- Previous vascular surgery
- Cardiac symptoms
- Known aneurysm
- Vascular risk factors
  - Smoking
  - Hyperlipidaemia
  - DM
  - IHD

## Examination

- Pale and cold
- Glove & stocking distribution neuropathy
- Bier spots
- Mottling
- Tenderness
- Oedema
- Blistering

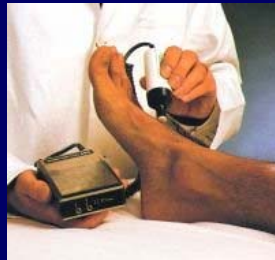
## Examination

- Palpate ALL pulses
  - Presence
  - Grade



## Examination

- Hand Held Doppler
  - ABPI
  - Waveform



## Making a diagnosis

- Embolic
  - Sudden
  - No Hx PVD
  - (Opposite limb normal)
  - Identifiable source
- Thrombotic
  - Sudden/less acute
  - Claudicant
  - Abnormalities in other limb

## Management

- Rapid definitive treatment is essential
- Brief Hx & Ex of salient points
- Definitive investigations
- Early treatment

## Treatment options

- Expectant
- Anticoagulation
- Thrombolysis
- Embolectomy
- Arterial Reconstruction

## Management 1

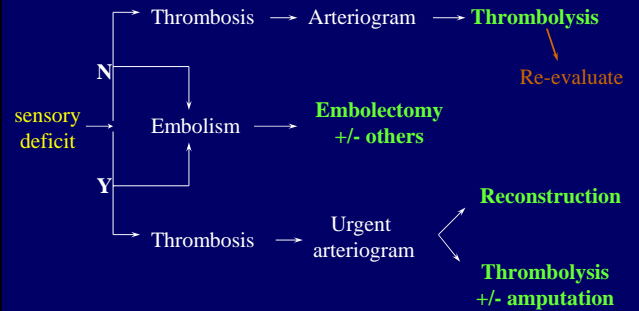
### Initial Ix

- FBC, Clotting, G+S
- ECG, (CXR)
- (Cardiac enzymes)
- ABPI
- Duplex
- Arteriogram

### Initial Treatment

- Analgesia
- Heparin
- catheter
- IV access + fluids
- Consent

## Treatment algorithm



## Thrombolysis

### Techniques

- Antegrade
- Retrograde
- Pulse spray
- Suction

### Complications

- Haemorrhage
- Embolisation
- CVA
- Death

### Agents

- Streptokinase
- Urokinase
- t-PA

### Results

50-90% success