





Venous Malformations Indications and limits of surgery (Exclusion of cervico-facial VMs)

Nikos Paraskevas, Pierre Cerceau, Annouk Bisdorff, Claudine Massoni, Claude Laurian

Department of Vascular and Thoracic Surgery, Bichat-Claude Bernard Hospital, Paris

Multidisciplinary Consultation of Vascular Malformations, Department of Neuroradiology, CHU Lariboisiere, Paris

Disclosure
Speaker name:
PARASKEVASNikos
I have the following potential conflicts of interest to report:
Consulting
Employment in industry
Shareholder in a healthcare company
Owner of a healthcare company
Other(s)
x I do not have any potential conflict of interest

VM: Indications and limits of surgery

• Recurrent pain

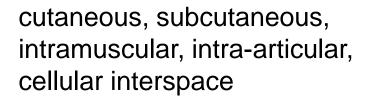
Spontaneously/ during exercise

- Limitation of movements
- Aesthetic prejudice
- Thromboembolic complications
- Failure of sclerotherapy/laser



Extra-truncular / tissular VMs

 Limited - focal (unique or multiple locations)



Radical excision

• Diffuse – extensive

Partial excision

Truncular VMs

• Superficial veins

Insufficiency of marginal vein

• Deep veins

hypoplasia, aplasia

dilations

Principles of surgical excision VMs

- Limits of VM
 - MRI, ultrasound mapping
- Dissection plane during excision of VM
- Cautious hemostasis
- Preservation of important vessels and nerves
- Coagulation complications
- Reconstruction of defect



Extra-truncular: cutaneous and subcutaneous VMs

Indications

Pain Aesthetic Hemorrhage

- Detachment from the skin
- Detachment from deep tissues
- Total / partial resection







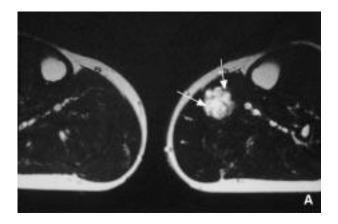




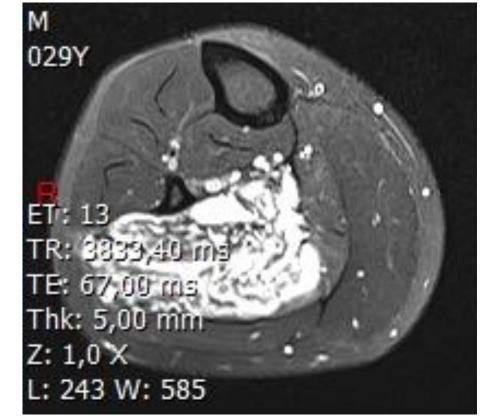


Extra-truncular: intramuscular VMs

- Most common form of unique VM
- Mainly lower limbs
- Indication: recurrent pain thromboembolism
- VM concerns part of the muscle
- VM concerns totally the muscle
 There is no infiltration of tendons
- Avoid functional complications
- Aesthetic problem: size of incision
 hollow appearance











Extra-truncular: intra-articular VMs

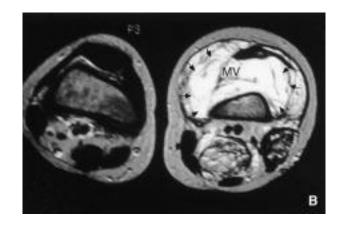
- Mainly knee joint
- Unique, localized / may involve adjacent structures

Extra-synovial: supracondylar bursa

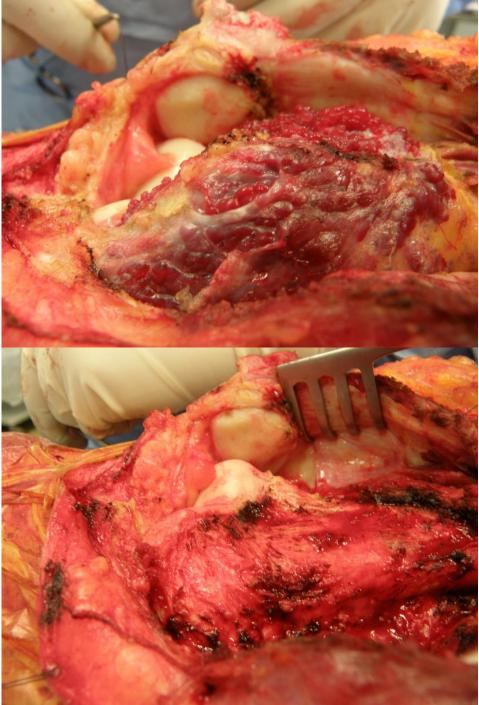
Intra-synovial

 Indications: recurrent pain limitation movement hemarthrosis prevention of chondropathy











Extra-truncular: cellular space VMs

- Lower limbs: popliteal fossa, ankle area, plantar area
- Upper limbs: mainly forearm

VMs develop around tendons and neurovascular trunks

 Indications: recurrent pain limitation of movement aesthetic reasons









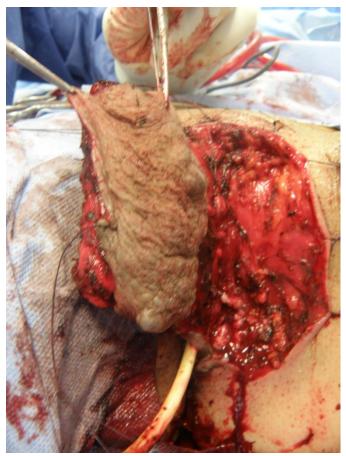


Extra-truncular: VMs of genitalia

- Indication: aesthetic, discomfort, pain
- Location, extensive lesions









Truncular VMs: superficial forms

- Insufficiency of marginal vein
- Embryonic remnant/ Valve aplasia

Incompetence: reflux from Gluteal and perforating veins

- Indication: symptoms of chronic superficial venous insufficiency
- Hemodynamic therapy

Ultrasound mapping ++++



Truncular VMs: deep forms

- Dilation : Recurrent thromboembolism
- Popliteal vein

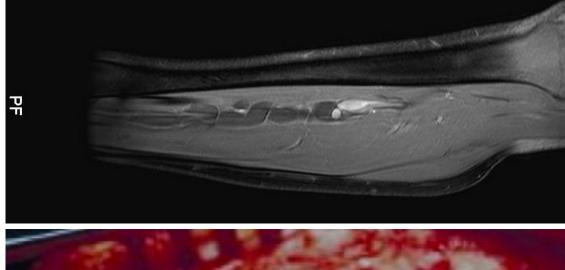
recalibrage

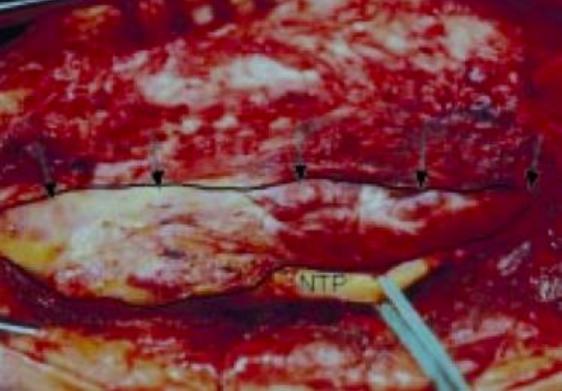
ligature

Tibial veins

resection

dissection of tibial nerve resection of veins and artery



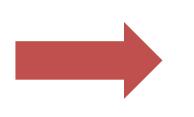


Conclusion

• VMs Variety in : location, extent, clinical manifestations Absence of consensus on treatment



Multidisciplinary approach / Reference center



Lower/ upper extremities VMs: Surgery > sclerotherapy/ laser

Head and neck VMs: Sclerotherapy/ laser > surgery