

VASCULAR COMPLICATIONS OF BEHÇET'S DISEASE (55 cases)

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Vascular complications of behçet's disease (55 cases)

MATERIAL AND METHODS

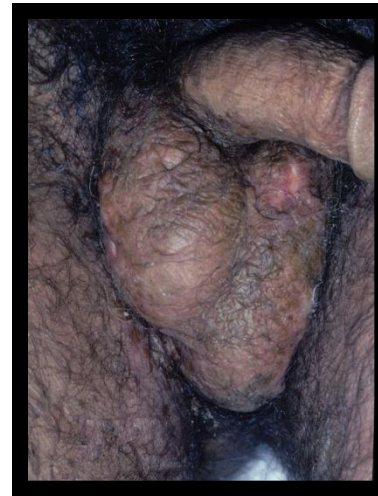
- 55 patients
- mean age = 32,7 years old (22 à 54)
- Sex = 49 ♂ / 6 ♀
- Country of origin: Morocco
- Time to onset : * 7-8 years on average after the first venous event .
 - * 17 patients = inaugural complication (+++).

Vascular complications of behçet's disease (55 cases)

CRITERIA OF DIAGNOSIS

BEHÇET'S DISEASE INTERNATIONAL STUDY GROUP CRITERIA

- Recurrent oral ulcers
- +
- Recurrent genital aphtosis
 - Ocular manifestations
 - Skin manifestations
 - Positive pathergy test



Vascular complications of behçet's disease (55 cases)

CRITERIA OF DIAGNOSIS (Suite)

- 36 had recurrent oral aphthous ulceration associated with at least two criteria.
- The others : Any. Sacciforme + Bipolar ulcer (young patient, absence of other causes) .
- Recruitment: internal medicine, dermatology, ophthalmology, emergency ...

Vascular complications of behçet's disease (55 cases)


LOCATION

- 55 patients: 64 aneurysms, 4 stenosis (3 lower limb, 1 internal carotid artery)
 - Femoral = 24
 - Aorta = 22 (17 Sub-renal aorta)
(05 celiac aorta)
 - Iliac = 5
 - Popliteal = 4
 - Tibialis = 4
 - Upper limb = 3
 - Carotid = 5
 - Superior mesenteric artery = 1



Vascular complications of behçet's disease (55 cases)

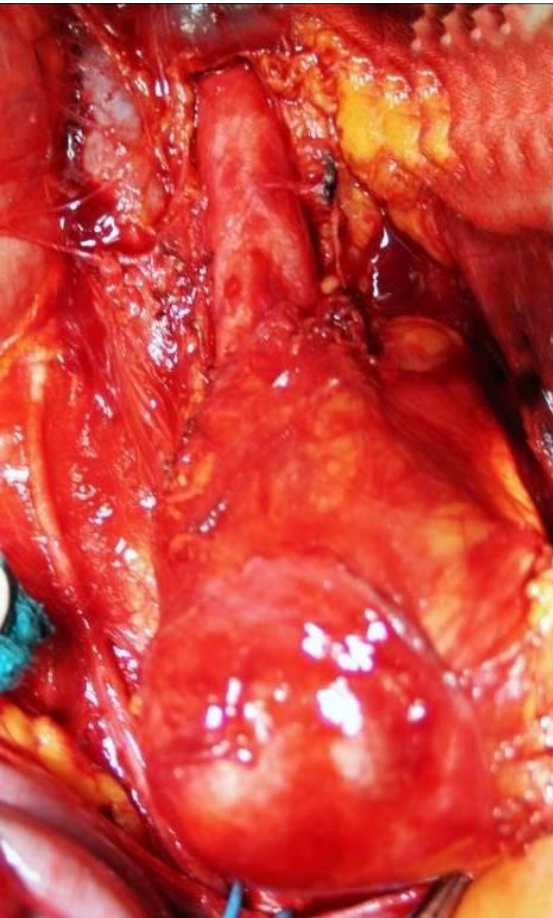
MEDICAL TREATMENT

- Corticosteroid + immunosuppressants
(cyclophosphamide and azathioprine)
- Relayed by colchicine + antiplatelet
- If inflammatory syndrome (sedimentation rate + c reactive protein) : 
 - Preoperative corticosteroid therapy (30 patients)
 - Should not delay the surgery (1 case of rupture)



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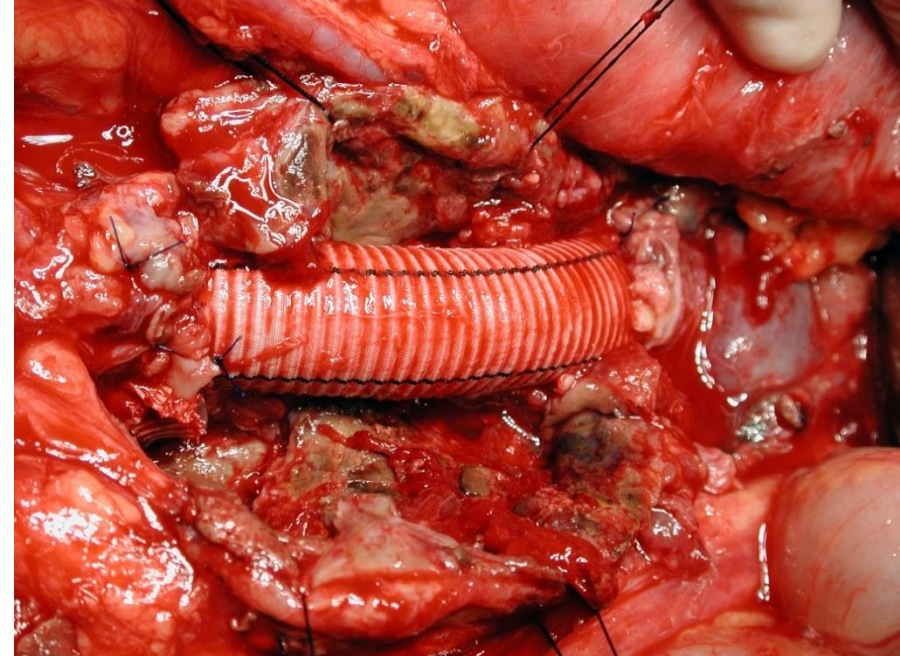
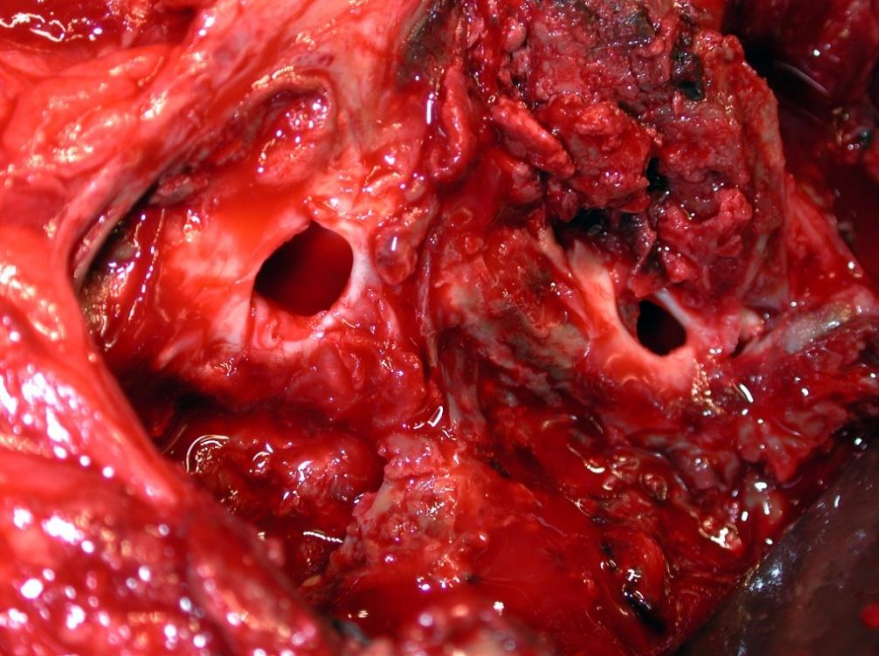
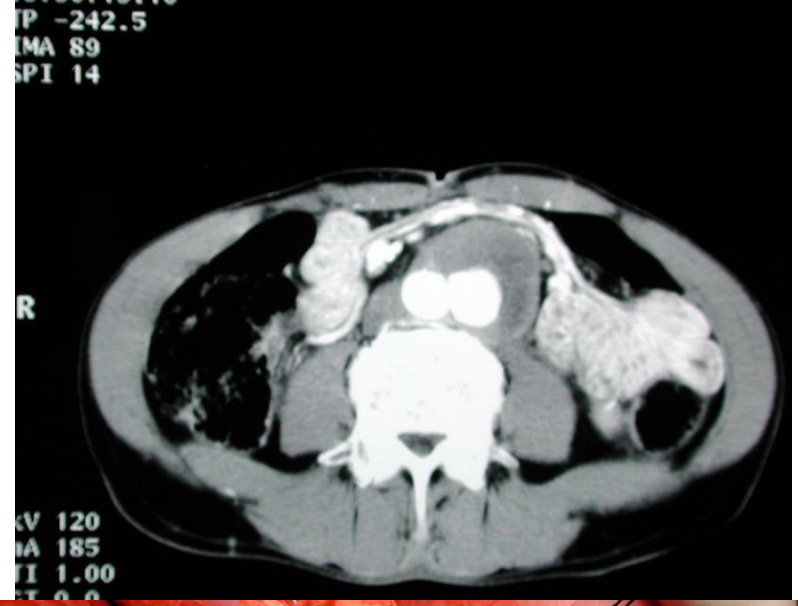
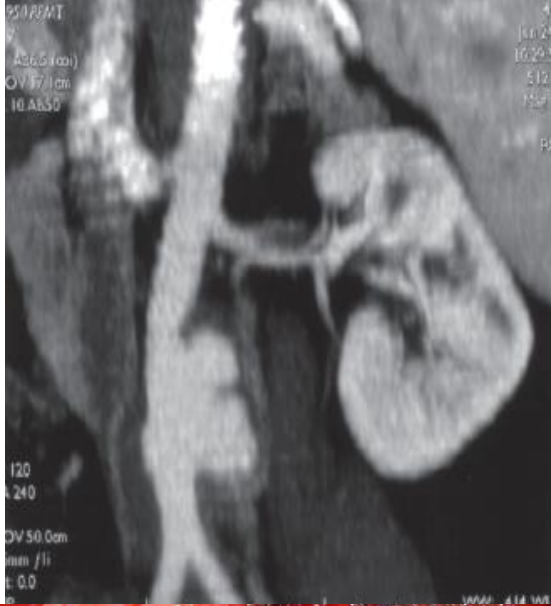
SURGICAL TREATMENT



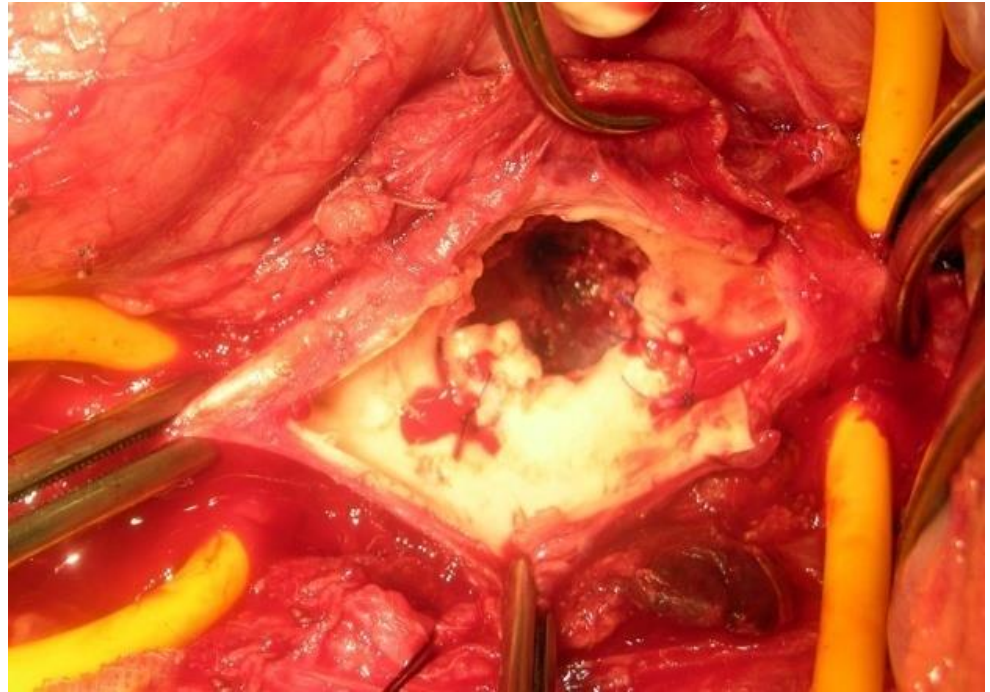
Aortic aneurysm (22):

- Tube = 12
- Resection of the aneurysmal sac + aortobifemoral bypass = 4
- + bypass biliaque = 2
- + patch = 4
- Associated procedure :
 - Renal revascularization = 2
 - Visceral revascularization = 2

Vascular complications of behçet's disease (55 cases)



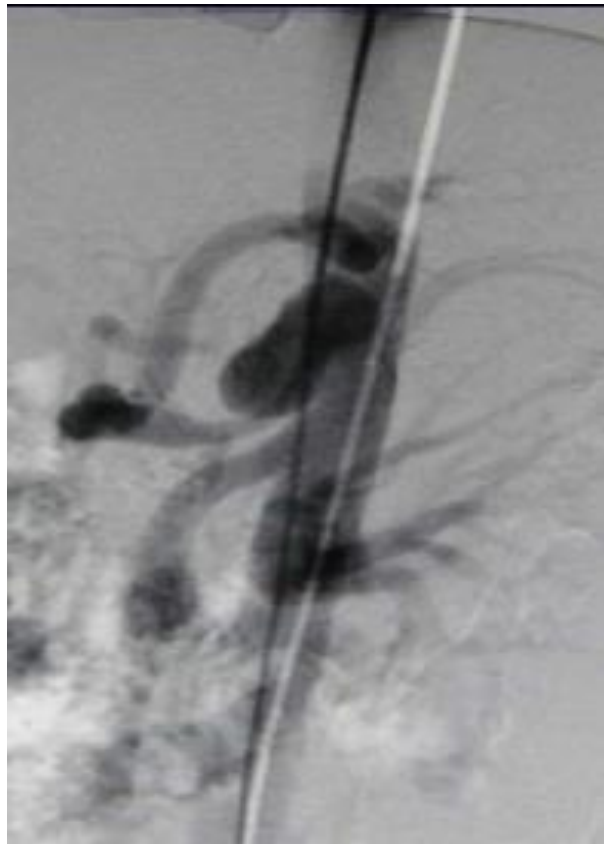
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SURGICAL TREATMENT

Celiac aortic aneurysm (5):

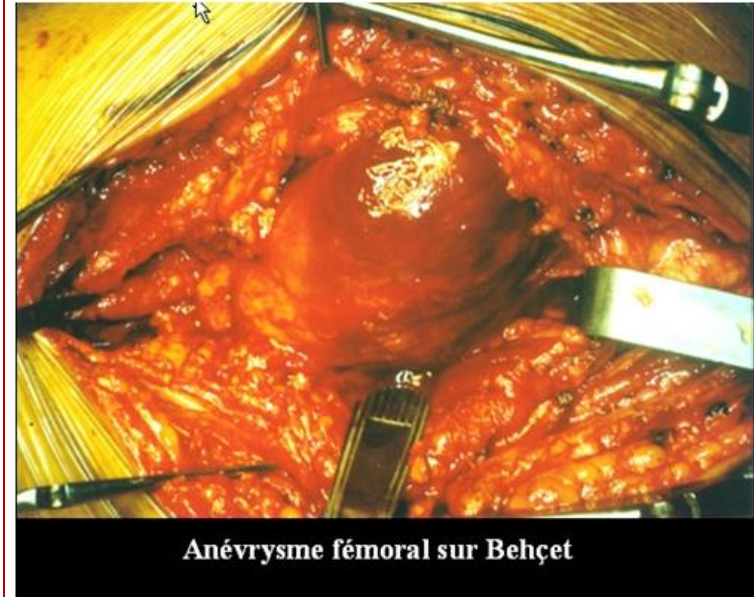


Vascular complications of behçet's disease (55 cases)

SURGICAL TREATMENT

Femoral involvement (24)

- Bypass: Venous = 4
- Prosthetic = 14
- Patch = 2
- Ligation = 3
- covered stent (saphenous vein) = 1



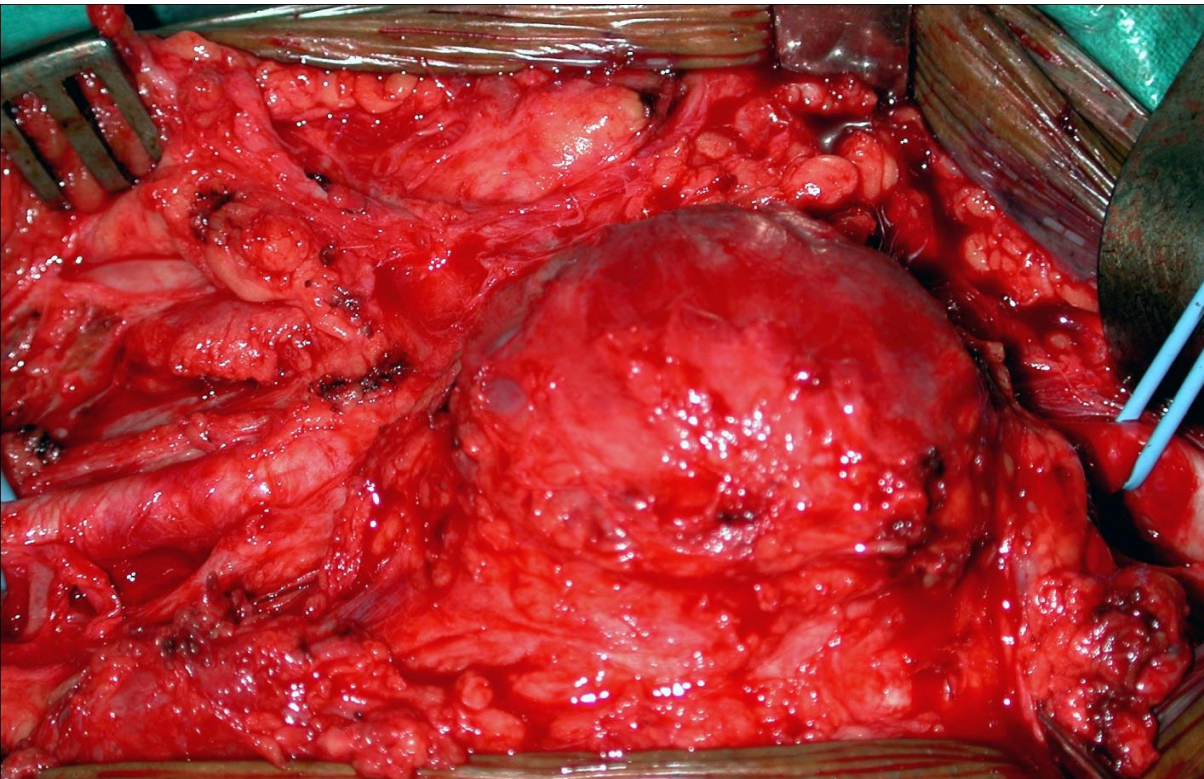
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SURGICAL TREATMENT

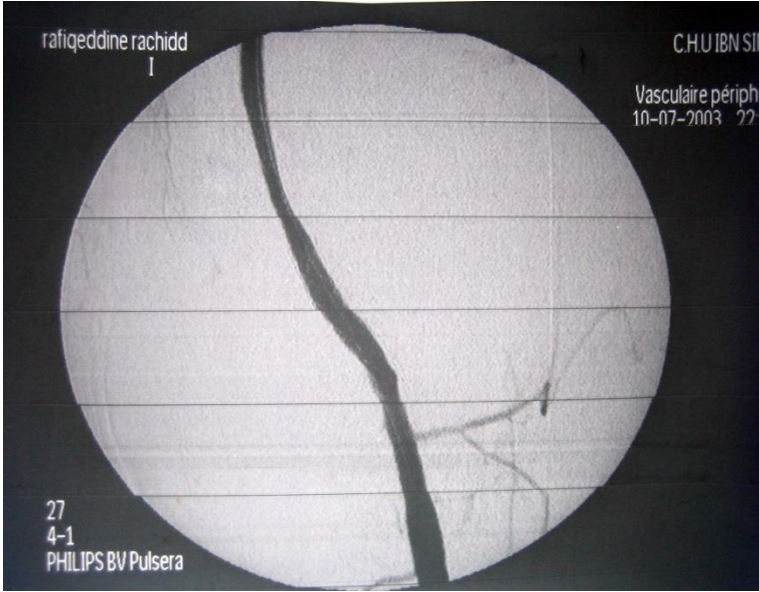
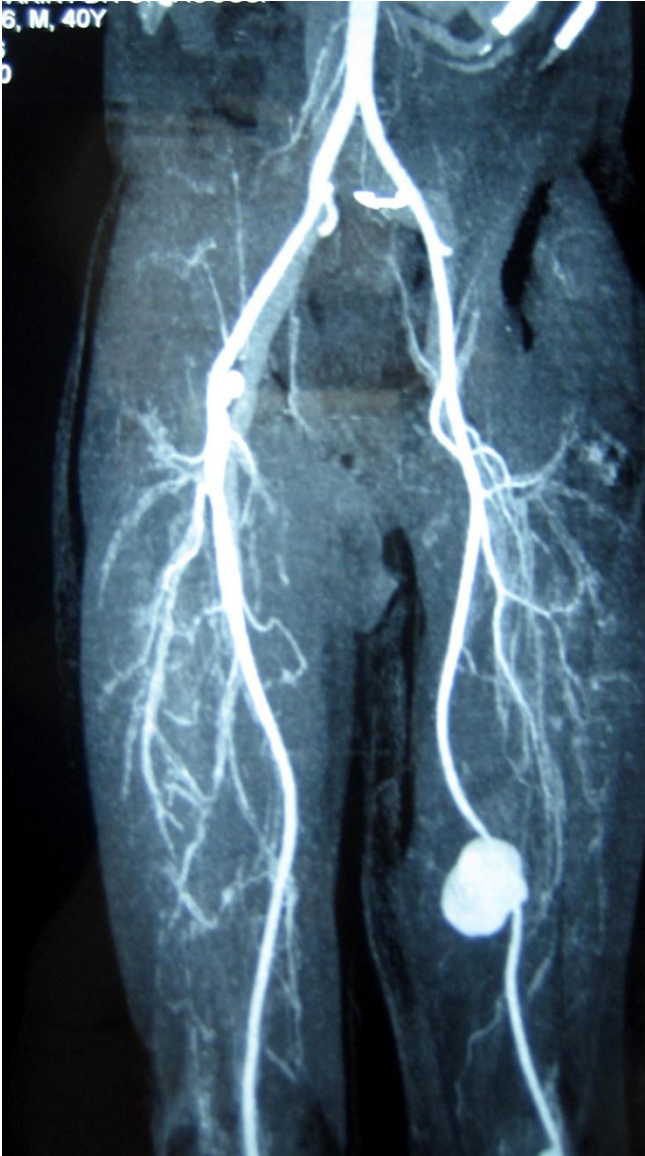
Femoral involvement (24)



Anévrysme fémoral sur Behçet



Vascular complications of behçet's disease (55 cases)



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SURGICAL TREATMENT

- *Iliac involvement (5)*
 - Occlusion = 1
 - Prosthetic bypass = 4
- *Popliteal aneurysm (4)*
 - bypass:
 - Venous (saphenous vein) = 3
 - Prosthetic = 1
- *Leg artery (4)*
 - Ligature = 2
 - False aneurysm Anastomotic = 1
 - Left anterior tibial artery = 1
- *Venous graft (saphenous vein)*
 - tibial peroneal trunk = 1
 - Left I trunk = 1

Vascular complications of behçet's disease (55 cases)

SURGICAL TREATMENT

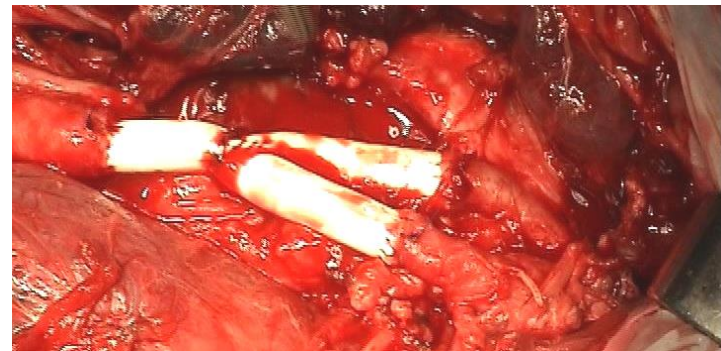
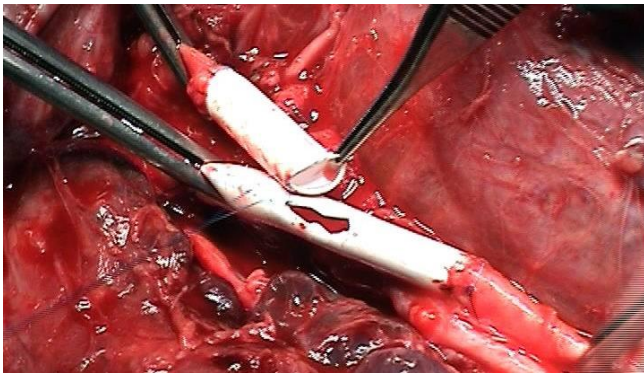
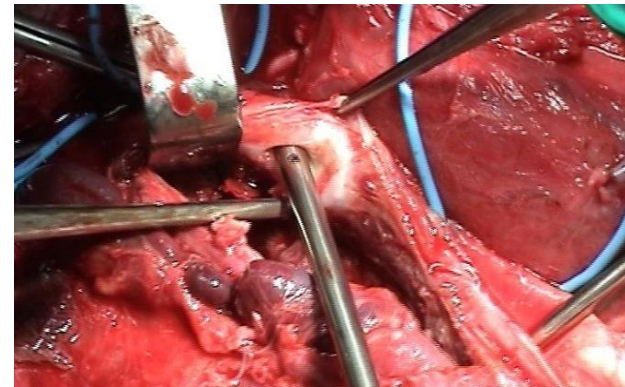
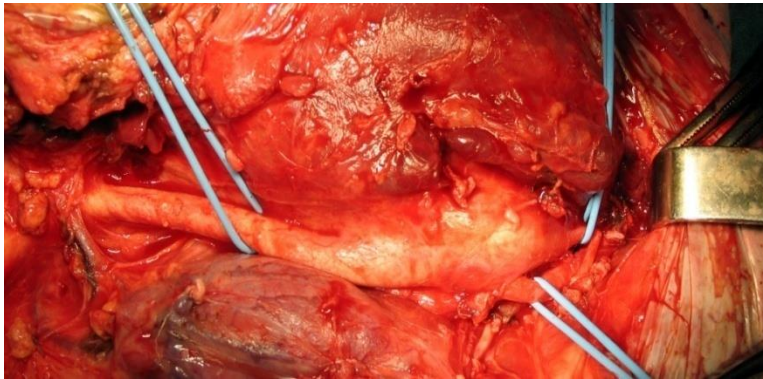
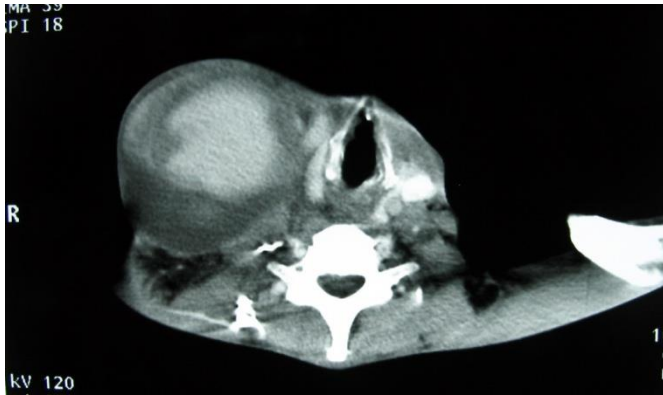
- *Carotid artery (5) : (common carotid artery = 3
ischemic attack = 2)*
 - Thromboendarterectomy = 1
 - Resection + anastomosis end to end = 1 (internal carotid artery Any)
 - Ascending aorta - carotid bypass. (sterno) = 1 (left common carotid artery)
 - Carotid-carotid interposition prosthetic = 1
 - Prosthetic rehabilitation of the carotid tripod = 1

Vascular complications of behçet's disease (55 cases)

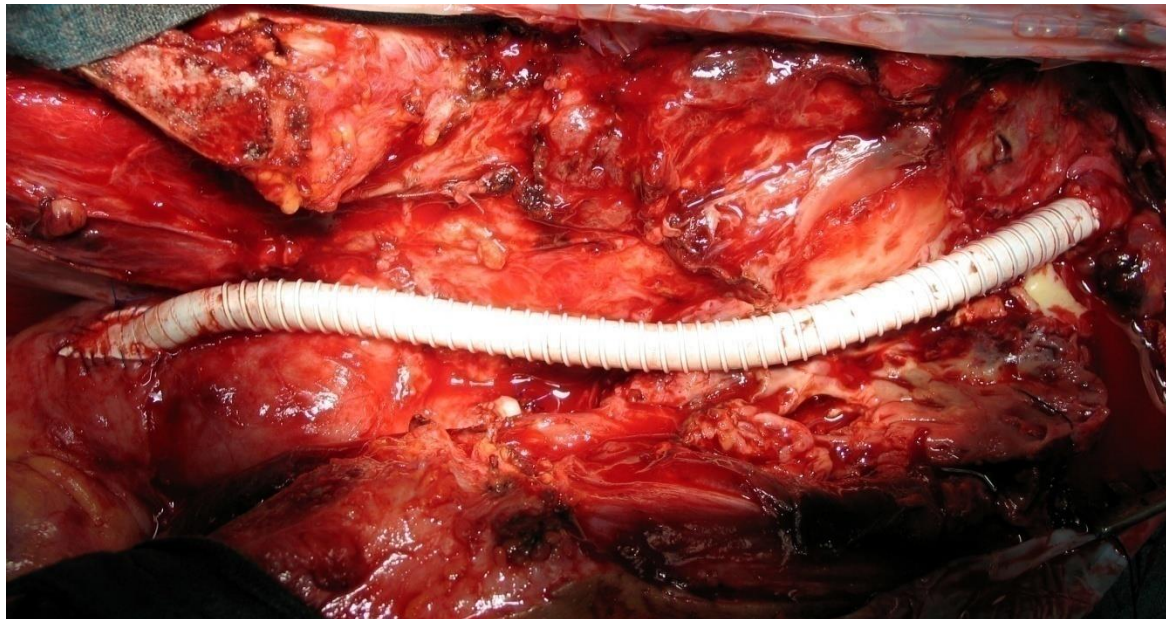
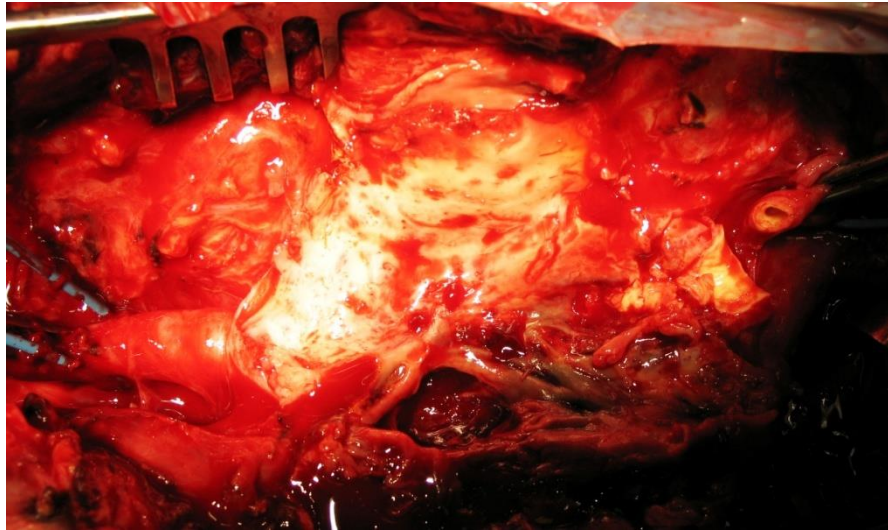
- 44 years old woman
- Behçet been treated for 4 years
 - Bipolar ulceration, uveitis, cutaneous hyperesthesia, IVC thrombosis, polyarthralgias
- Arteriography : Left ICA any
- Treatment : Resection + anastomosis end to end
- Histology : Panvasculitis



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SURGICAL TREATMENT

■ *Upper Limb. (3)*

- Ligation = 1 (Radial artery)
- Graft (saphenous vein) = 2 (Humeral artery)

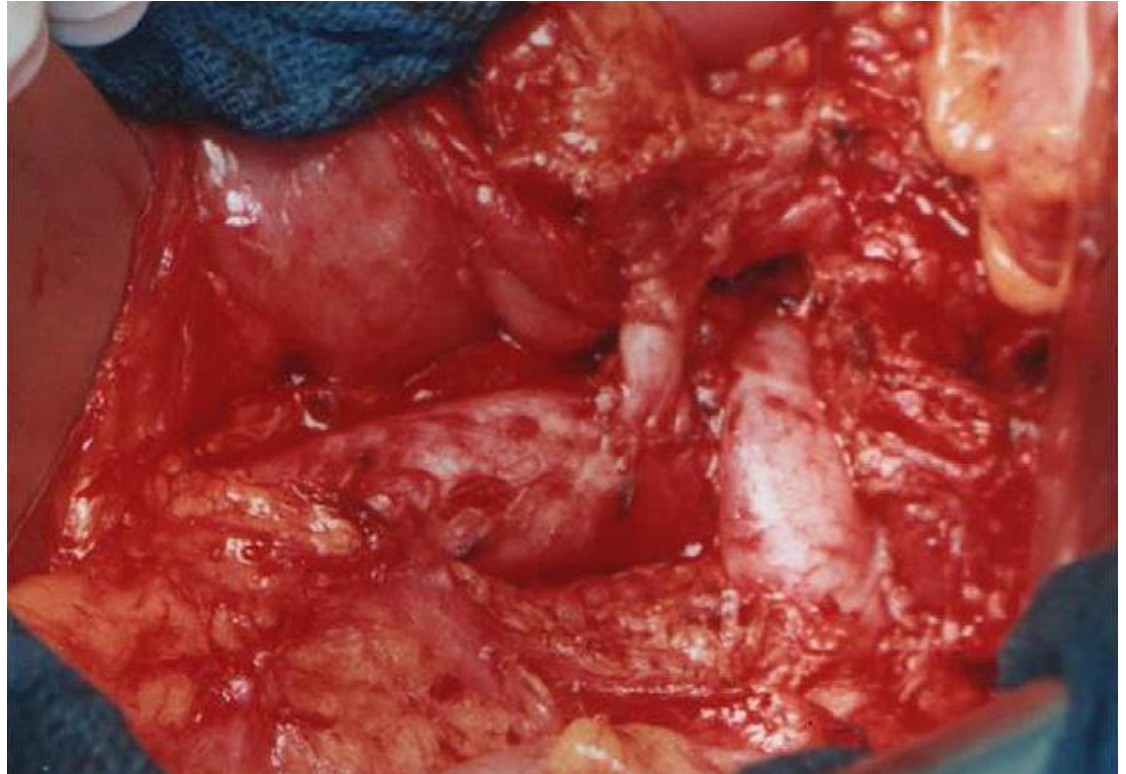
■ *Superior mesenteric artery (1)*

- Resection + reimplantation = 1

Vascular complications of behçet's disease (55 cases)

SURGICAL TREATMENT

SMA: Resection + reimplantation = 1



Vascular complications of behçet's disease (55 cases)

POSTOPERATIVE RECOVERIES

■ *Aortic involvement (22)*

- **2 deaths:**
 - Hemorrhagic shock by lackage.
 - Decompensated Behçet's disease (Cerebral thrombophlebitis + intestinal obstruction)
- **1 early thrombosis + 2 iliac arteries dissections**
- **2 totally regressive paraparesis**
- **1 postoperative ilio-caval phlebitis with renal failure.**

Vascular complications of behçet's disease (55 cases)

POSTOPERATIVE RECOVERIES

- **Femoral involvement (24)**
 - 3 early thrombosis: Embolectomy
 - 2 asymptomatic thrombosis: no treatment
- **Iliac involvement (5)**
 - 1 death : multi-system organ failure (**Behçet**)
 - Thrombosis of an iliofemoral bypass
- **Carotid involvement (5)**
 - 1 Ischemic stroke

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DISTANT RESULTS

- Mean follow-up : 10 years.
- Patients lost to follow-up : 16
- intermittent claudicating = 6
- Anastomotic aneurysm = 5 cases (2 aortics)
- Secondary Location = 6
 - 1 common femoral artery → aortic location
 - 1 iliac Any: → 1 carotid location
 - 2 aortic Any: → 2 femoral locations
- Prosthesis infection = 1
- Aorto-enteric fistula = 1

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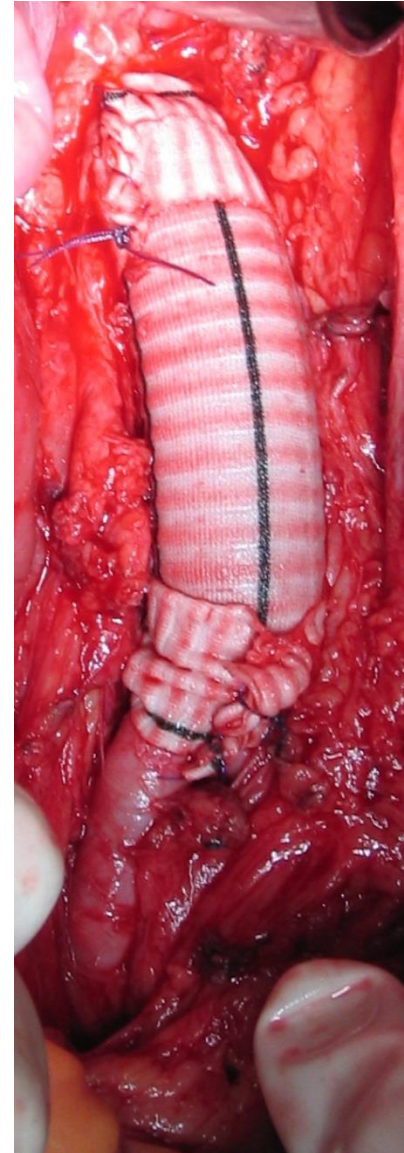
CONCLUSION (I)

- Frequency largely underestimated: Lakhampal's work.
- The occurrence of arterial complication does not appear to be related with age, sex, disease duration, clinic, treatment monitoring, and the presence or absence of HLA B5.
- The lesion is usually aneurysmal: Aorta, femoral artery, pulmonary artery in most series.
- Multiple locations.
- Avoid arteriography (angioscan, Angio MRI +++)

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CONCLUSION (II)

- Formal surgical indication : aneurysmal lesion
- Moderate surgical indication : stenosis .
- Difficult surgery : inflammation (+++), weak artery wall.
- anastomotic aneurysms are frequent : Interest of Banding, sutures supported by Teflon patch ...
- Avoid vein grafts (pathological vein), PTFE rather than Dacron.



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CONCLUSION (III)

- Complications of surgery prohibitive (lackage, thrombosis, dissection, anastomotic aneurysm ...) → large indication of ligations (H Tuzu. Cardiovascular Surgery. 1993).
- Interest of non-invasive surgical technics: aortic endoprosthesis (Kawaguchi, Vasseur), Stent +ICA aneurysm coil on false aneurysm (Bonnote).
- Immunosuppressant + corticoid on postoperative period (Weschler).
- Secondary location.

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CONCLUSION (IV)

- Behcet's disease is rarely life-threatening, however, in case of arterial injury, mortality can reach 60%.
- Any aneurysmal arterial disease occurring in young patients, of Mediterranean origin, with no obvious cause, is a Behçet until proven otherwise.