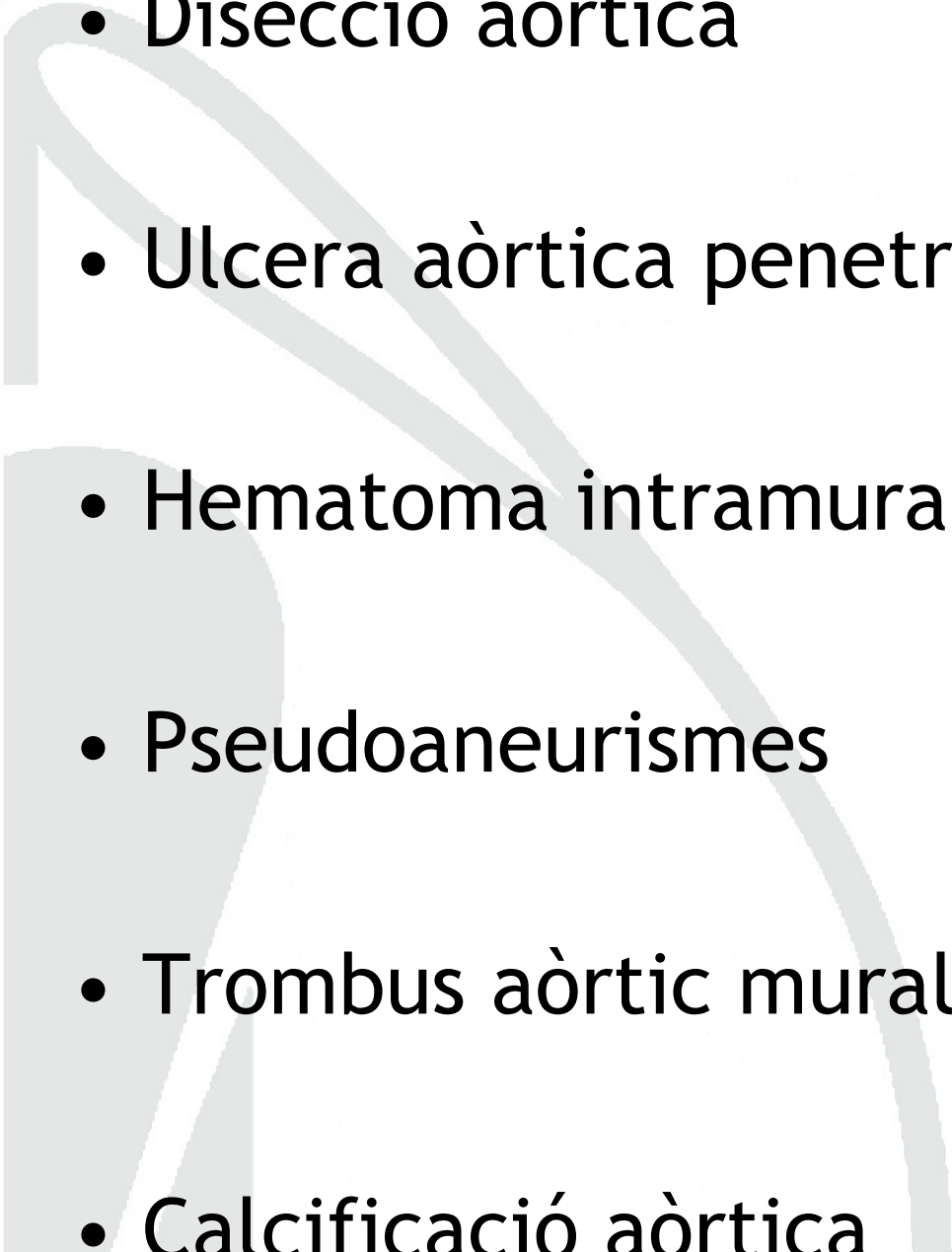




Altres patologies de l'aorta: definicions, prevalences i diagnòstic

Dr. Xavier Yugueros

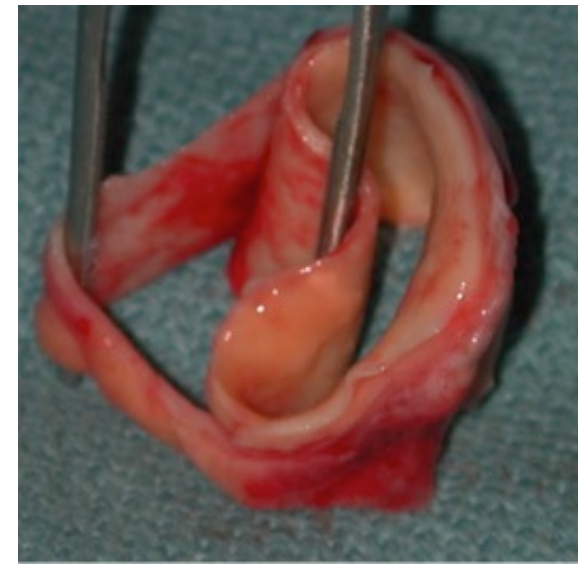
Secció de Cirurgia Vasculard, Servei de Cirurgia Cardiovascular
Institut Clínic de Malalties Cardiovasculars. Hospital Clínic.
Barcelona

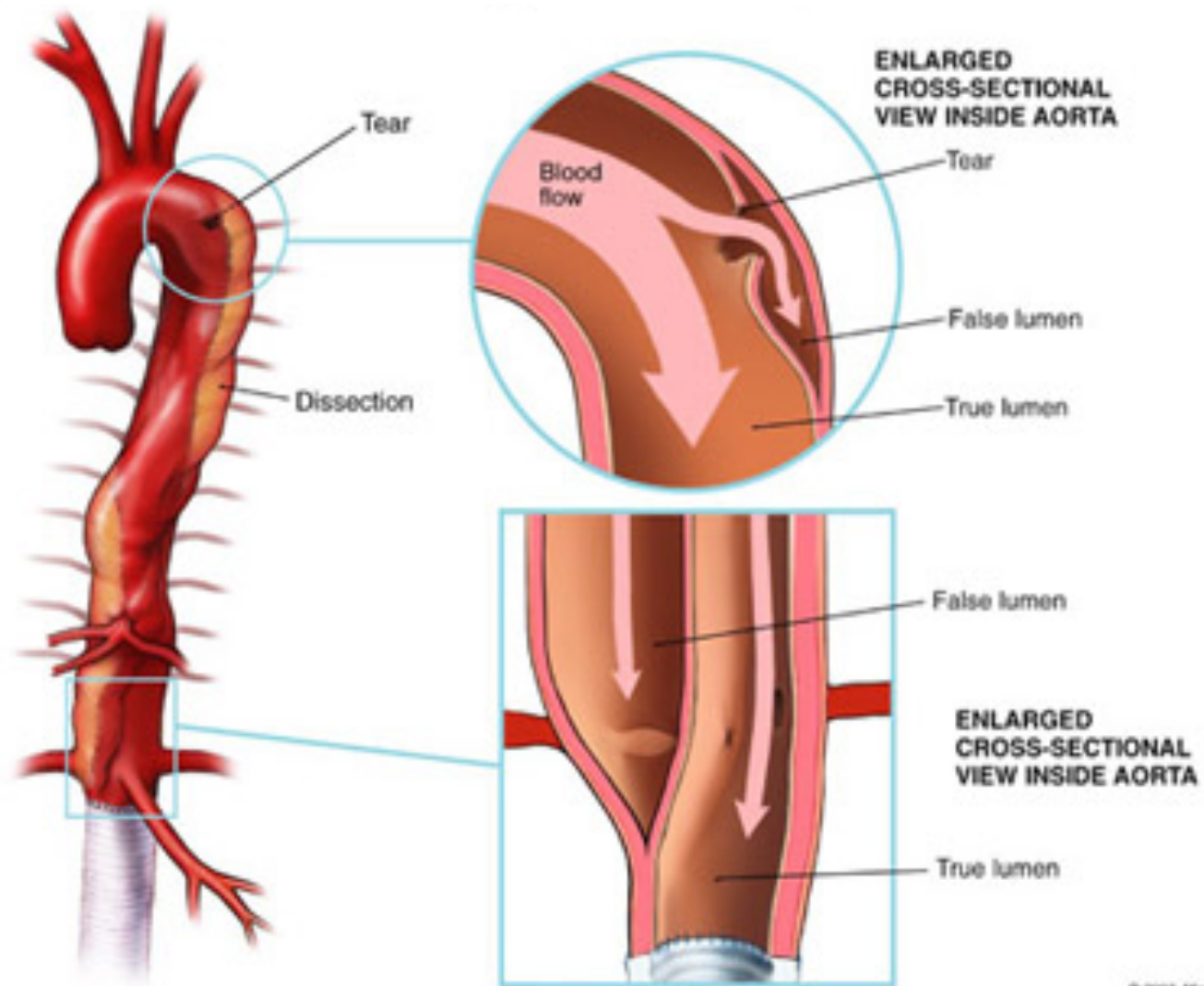
- 
- Disecció aòrtica
 - Úlcera aòrtica penetrant
 - Hematoma intramural
 - Pseudoaneurismes
 - Trombus aòrtic mural
 - Calcificació aòrtica

SAA

Dissecció d'aorta

- Disrupció de les lamines de l'artèria secundari a ruptura intimal provocant la creació de dos llums (V i F)
- **6 casos** / 100.000 hab / any
- Homes, **HTA**





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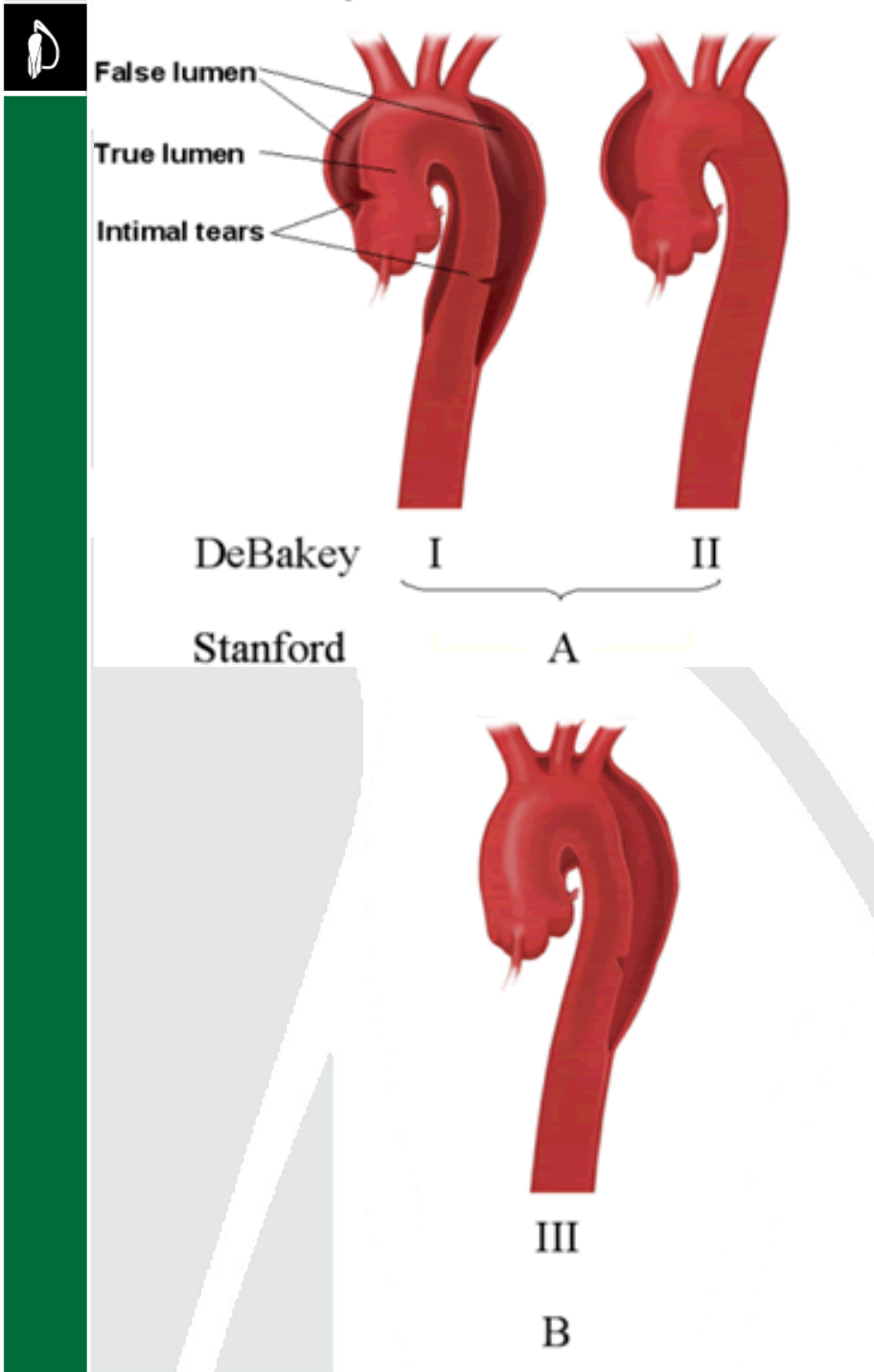


Table 4 Main clinical presentations and complications of patients with acute aortic dissection

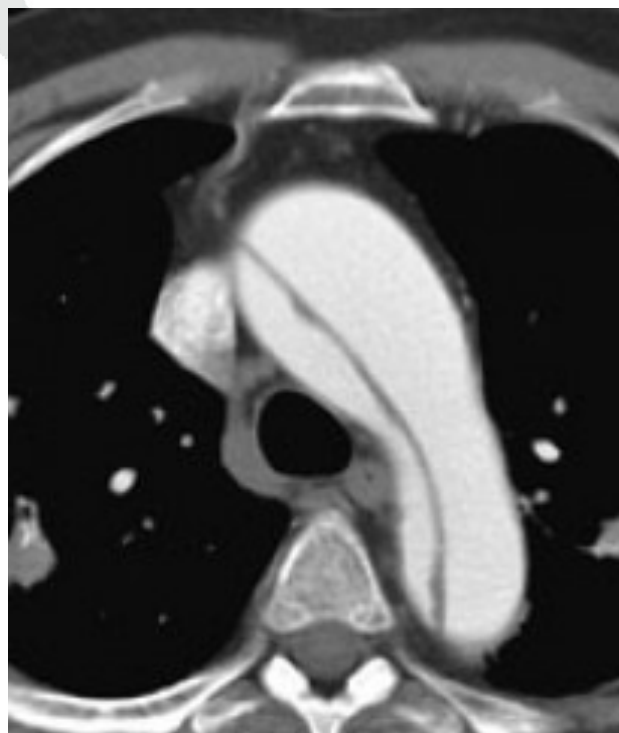
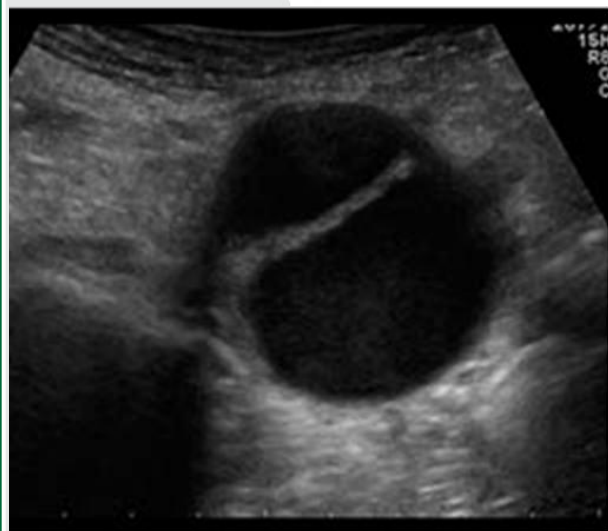
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Back pain	40%	70%
Abrupt onset of pain	85%	85%
Migrating pain	<15%	20%
Aortic regurgitation	40–75%	N/A
Cardiac tamponade	<20%	N/A
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Syncope	15%	<5%
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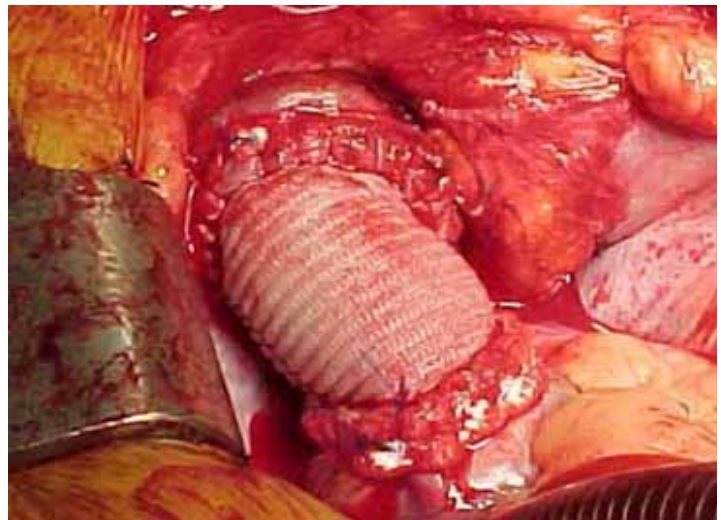
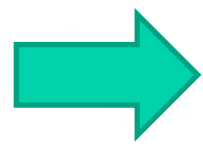
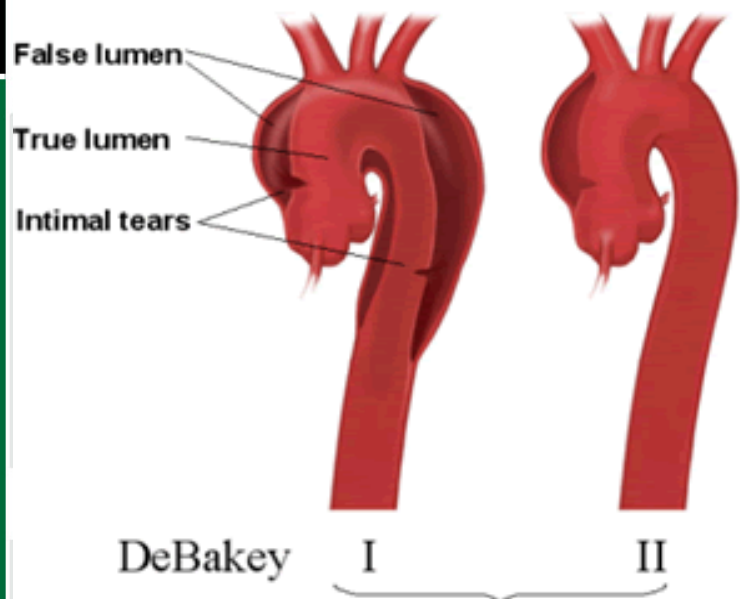
High-risk pain features

- Chest, back, or abdominal pain described as any of the following:
 - abrupt onset
 - severe intensity
 - ripping or tearing

High-risk examination features

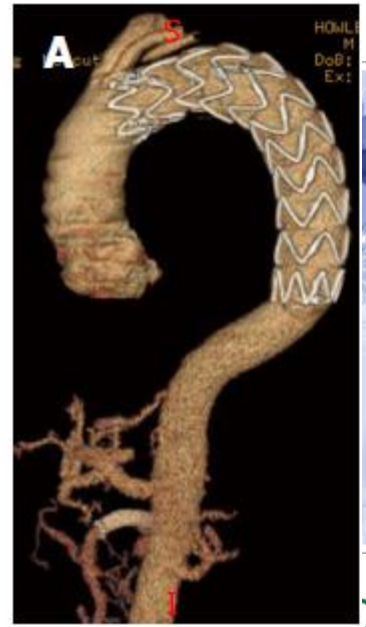
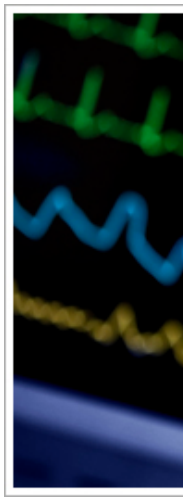
- Evidence of perfusion deficit:
 - pulse deficit
 - systolic blood pressure difference
 - focal neurological deficit (in conjunction with pain)
- Aortic diastolic murmur (new and with pain)
- Hypotension or shock





DeBakey I II

Stanford A



III
B

Úlcera aórtica penetrant

- Úlceració d'una placa ateroscleròtica mes enllà de la íntima (penetrant en la lamina mitja)
- **2-7% de tots els SAA**
- Homes amb **múltiples FR CV**
- **Ao descendent (90%)**

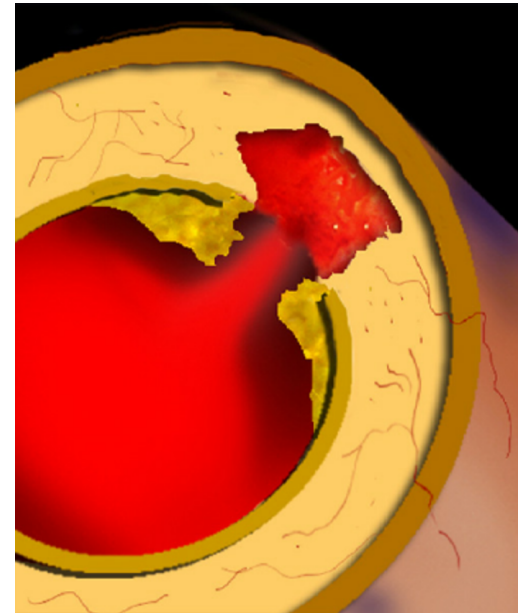




Table 4 Main clinical presentations and complications of patients with acute aortic dissection

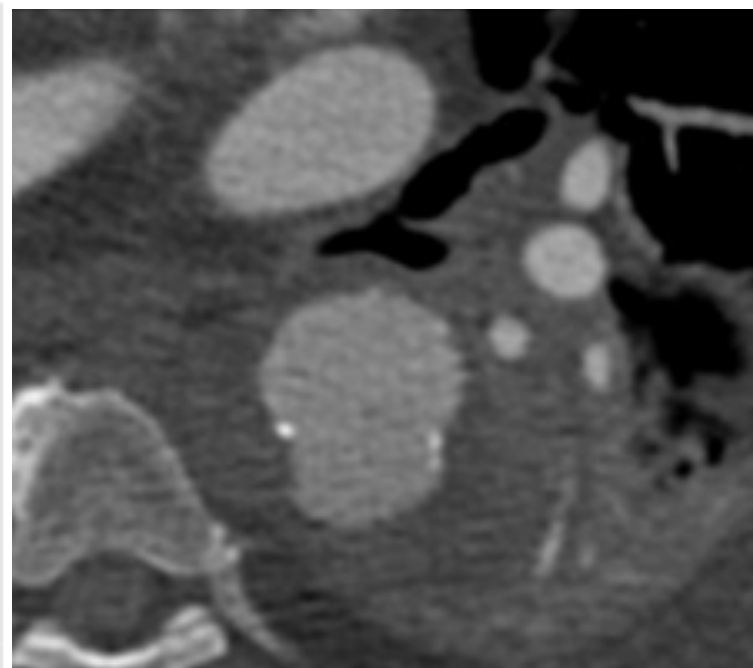
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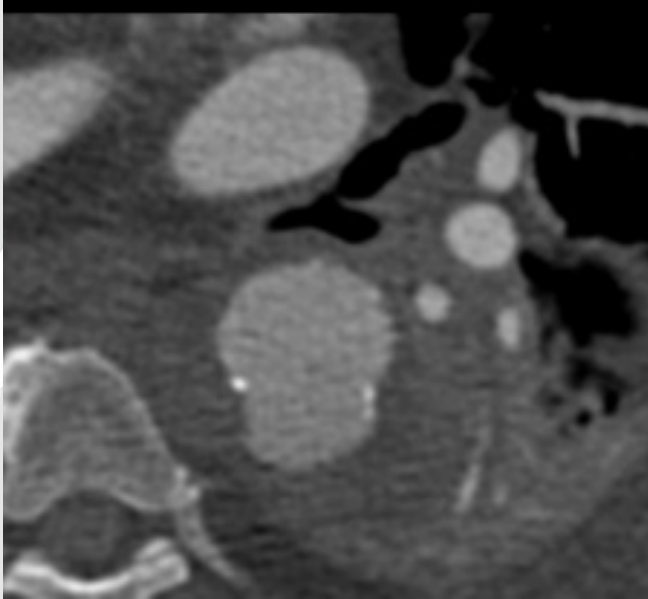
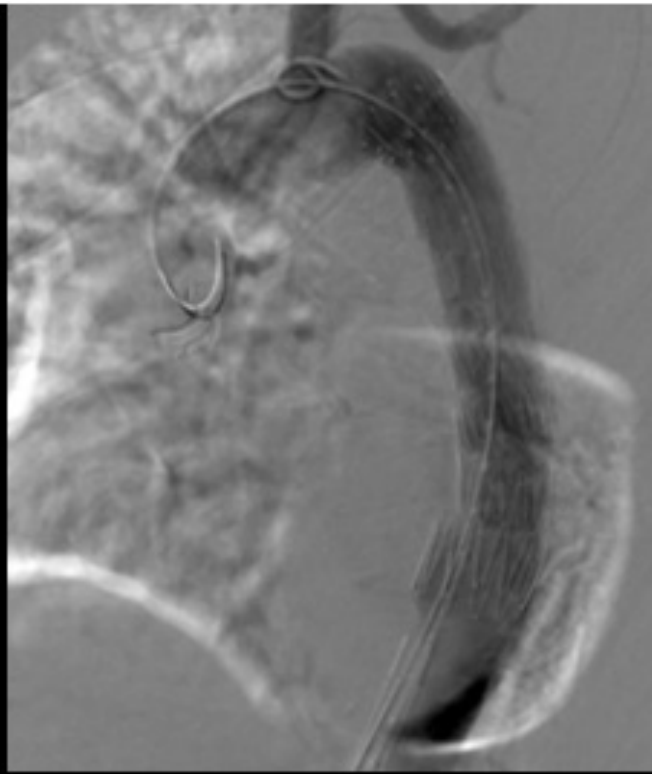
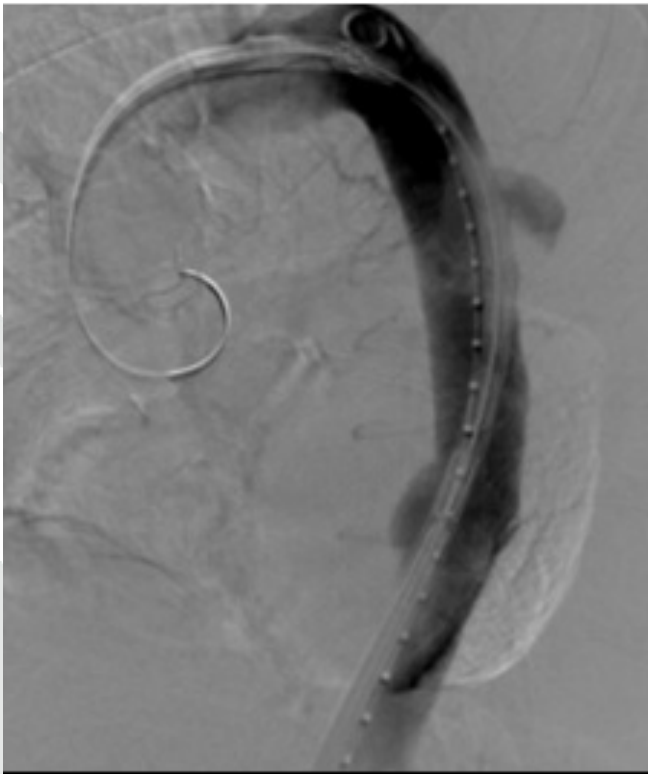


Table 2: High-risk features of type B PAU based on the medical literature reviewed and recommendations for invasive treatment

High-risk feature	Indication
Symptomatic patient	Symptoms despite medical treatment [31, 57-59]
Asymptomatic patient	
Pleural effusion	Increase in pleural effusion [31, 47]
IMH-associated	Presence of IMH [31, 47]
Initial PAU depth and diameter ^a	Large initial PAU depth (>10 mm) and diameter (>20 mm) or high growth rate size [31]

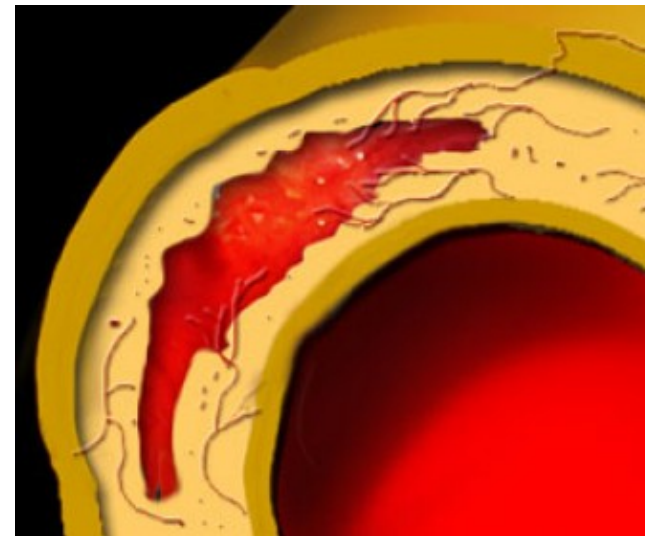
^aControversial: not fully accepted, and cut-off value unclear.
IMH: intramural haematoma; PAU: penetrating atherosclerotic ulcer.





Hematoma intramural

- Hematoma dintre de la lamina mitja en absència de ruptura intimal o doble llum (ruptura VV)
- **10-20% de tots els SAA**
- **Ao descendent (60-70%)**



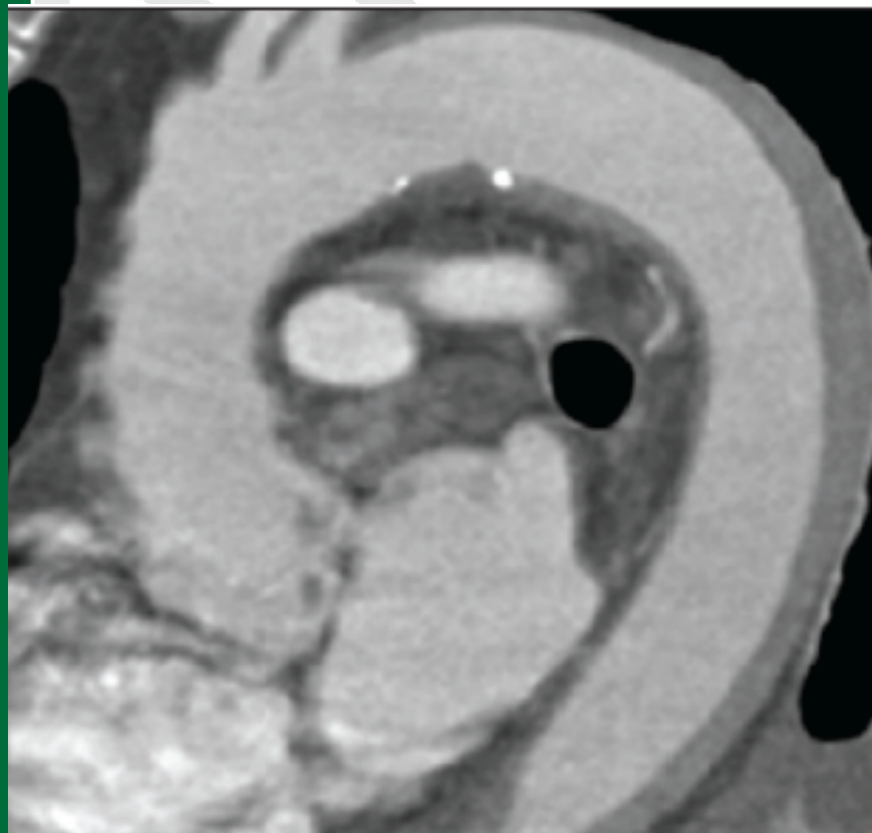


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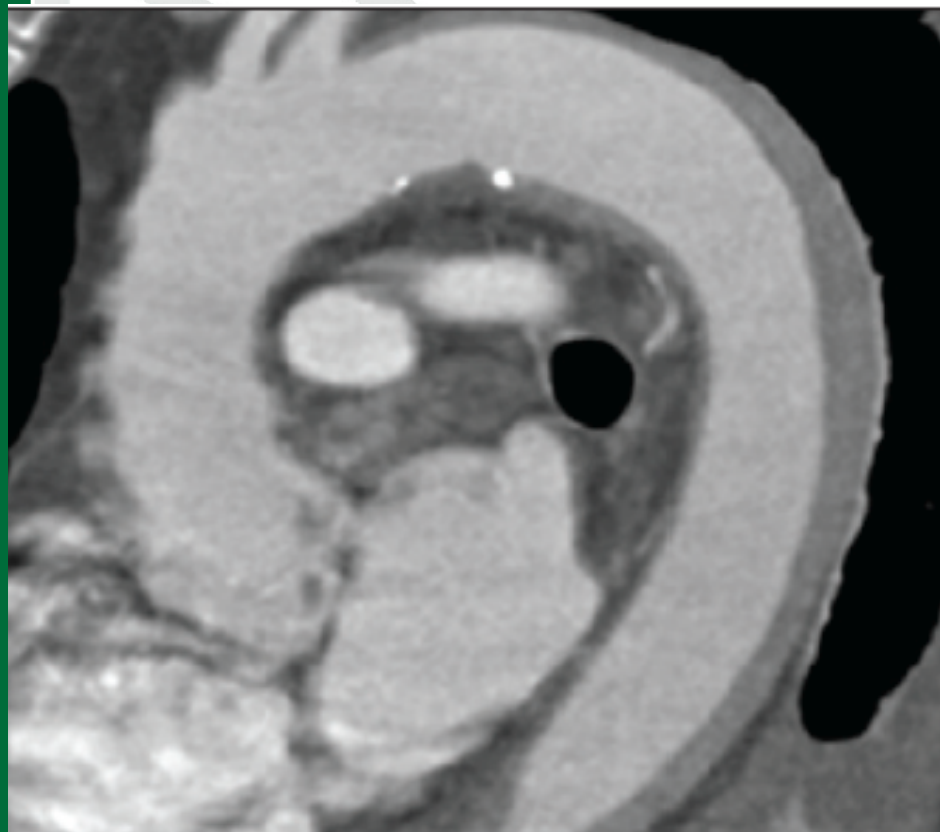
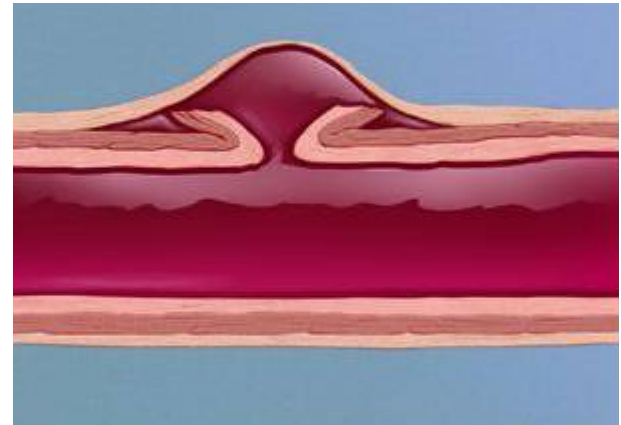


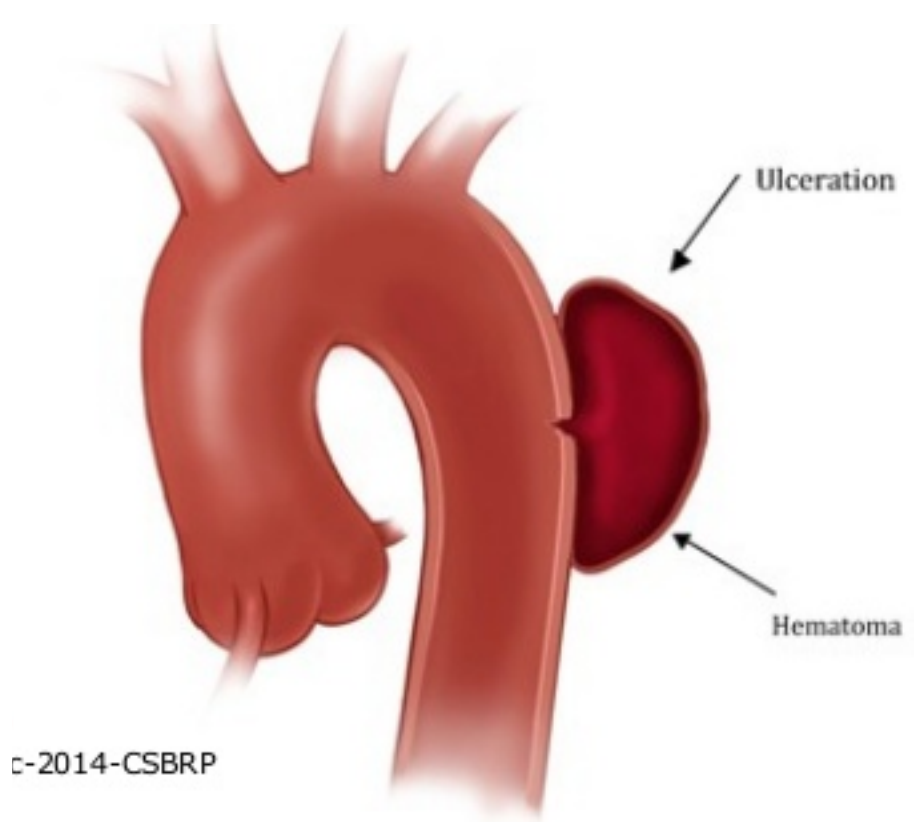
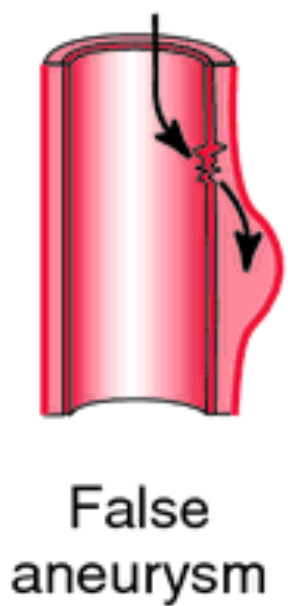
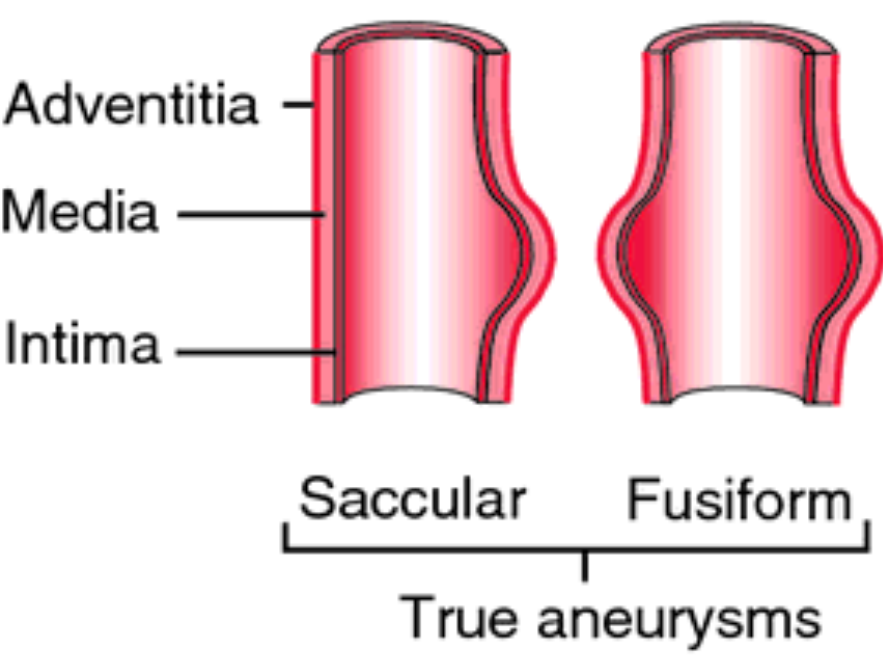
Table 8 Predictors of intramural haematoma complications

Persistent and recurrent pain despite aggressive medical treatment ²⁴¹
Difficult blood pressure control ¹⁷⁸
Ascending aortic involvement ^{228, 237, 242}
Maximum aortic diameter ≥ 50 mm ^{178, 242}
Progressive maximum aortic wall thickness (>11 mm) ²⁴³
Enlarging aortic diameter ²⁴³
Recurrent pleural effusion ²⁴¹
Penetrating ulcer or ulcer-like projection secondary to localized dissections in the involved segment ^{241, 244-246}
Detection of organ ischaemia (brain, myocardium, bowels, kidneys, etc)

Pseudoaneurismes

- Hematoma periarterial comunicat amb la llum (ruptura continguda)
- **Típicament post-trauma, infeccios (micòtic) o post-cirurgia**



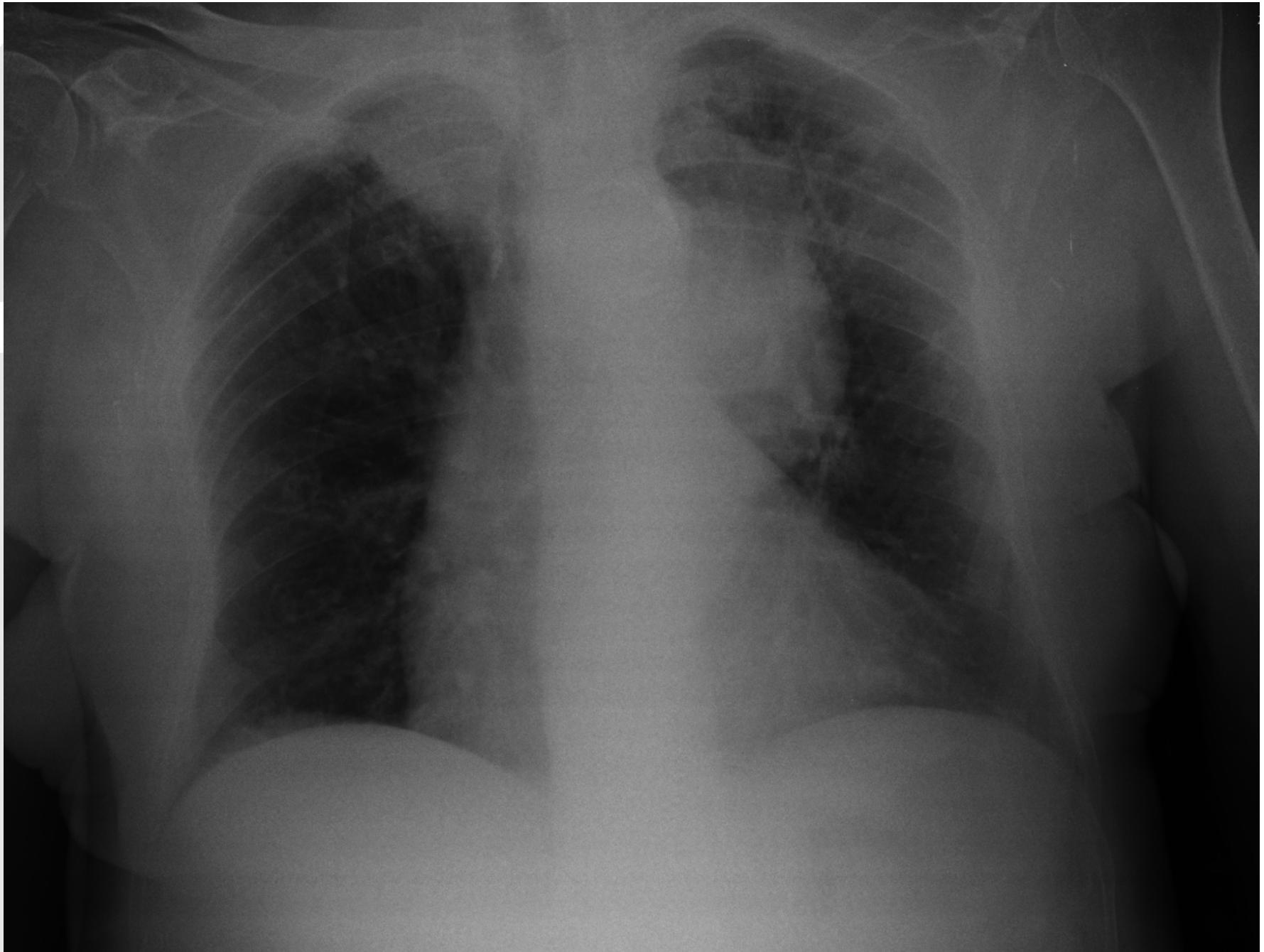


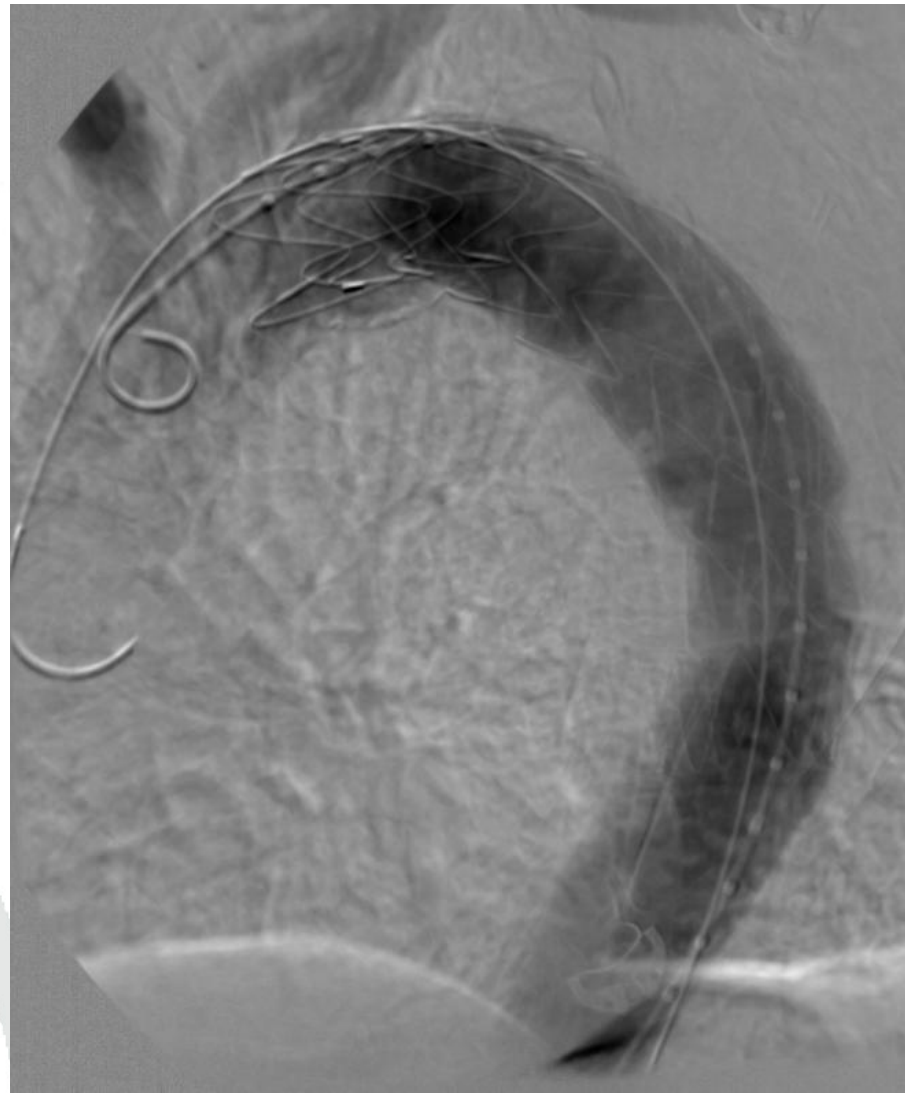
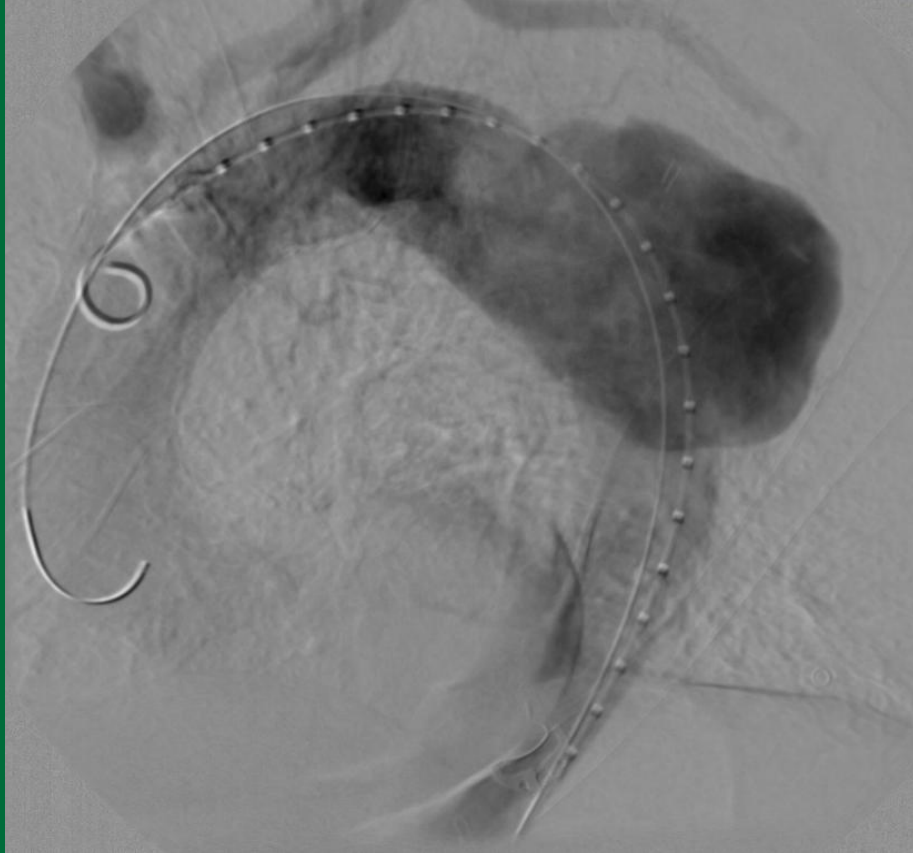


- **Asimptomàtics**

- **Compressió / fistulització a estructures veïnes**

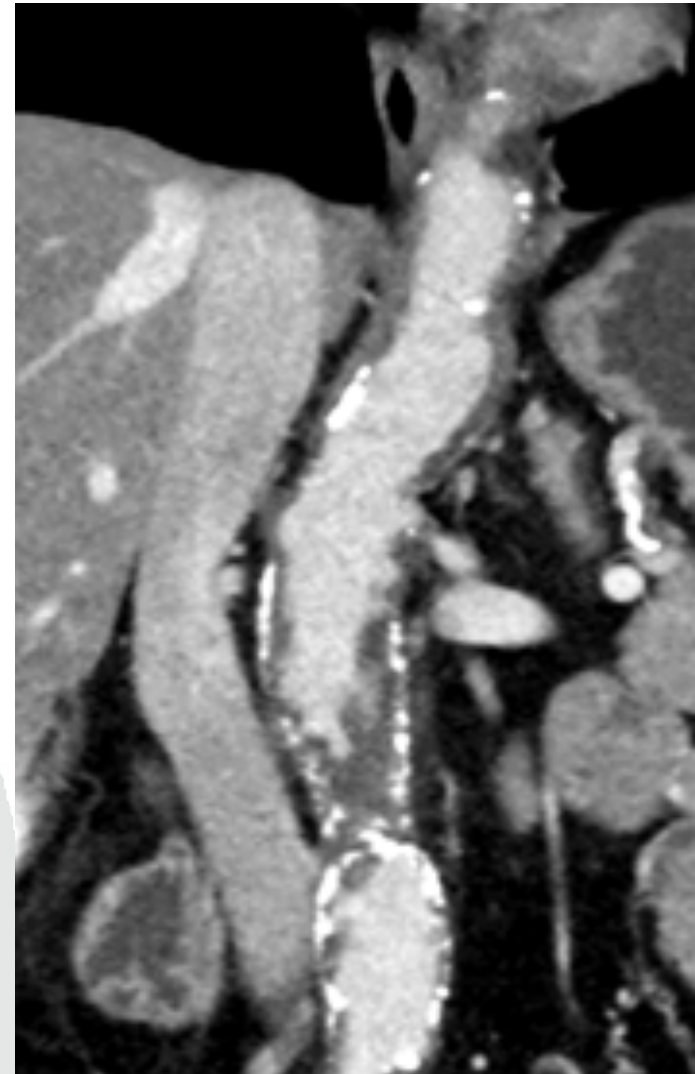
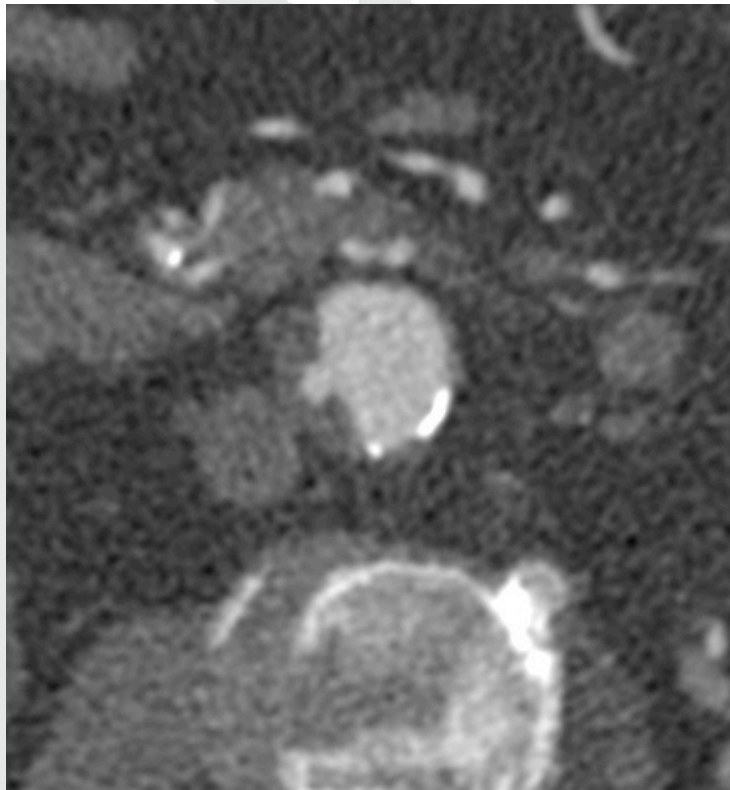
- Via aèria (disfonia, disnea, hemoptisi...)
- Esofag (disfàgia, hematemèsi...)
- Vies urinàries (hidronefrosi, colic renal...)
- Psoas / Plexe lumbosacra (dolor inguinal, alteracions sensibles/motors EII...)







Trombus aortic mural





- Tipic en pacients aterosclerosos amb FR CV
- **Risc embolització distal (AVC, EEII, visceral...)**



Recommendations on management of aortic plaque

Recommendations	Class ^a	Level ^b
In the presence of aortic atherosclerosis, general preventive measures to control risk factors are indicated.	I	C
In the case of aortic plaque detected during the diagnostic work-up after stroke or peripheral embolism, anticoagulation or antiplatelet therapy should be considered. The choice between the two strategies depends on comorbidities and other indications for these treatments.	IIa	C
Prophylactic surgery to remove high-risk aortic plaque is not recommended.	III	C



Calcificació aòrtica





- Típic en pacients ateroesclerosos amb FR CV
- **No te perquè significar patologia significativa**



Recommendations in patients with PAD: general treatment

Recommendations	Class ^a	Level ^b	Ref ^c
All patients with PAD who smoke should be advised to stop smoking.	I	B	48
All patients with PAD should have their LDL cholesterol lowered to <2.5 mmol/L (100 mg/dL), and optimally to <1.8 mmol/L (70 mg/dL), or ≥ 50% when the target level cannot be reached.	I	C ^d	-
All patients with PAD should have their blood pressure controlled to ≤140/90 mmHg.	I	A	41
β-Blockers are not contraindicated in patients with LEAD, and should be considered in the case of concomitant coronary artery disease and/or heart failure.	IIa	B	46, 47
Antiplatelet therapy is recommended in patients with symptomatic PAD.	I	C ^d	37
In patients with PAD and diabetes, the HbA1c level should be kept at ≤6.5%.	I	C ^d	-
In patients with PAD, a multidisciplinary approach is recommended to establish a management strategy.	I	C	-