

A black hole in the cathlab

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Male, 68 years

No history of cardiovascular disease

2012: Myelofibrosis (JAK2 -, karyotype: 46XY del13) complicated with:

-> 12-2018: Neutropenic fever complicated with urosepsis (proteus vulgaris)

-> 02-2019: Progressive pancytopenia treated with transfusion

-> 06-2019: Allogenic stemcell transplantation

-> 07-2019: **Graft failure**

-> 08-2019: Second donation of stem cells

-> 11-2019: Third donation of stem cells

03-2020: E. Cloacae en S. Epidermidis sepsis

05-2020: catheter related sepsis with stafylococcus capitis

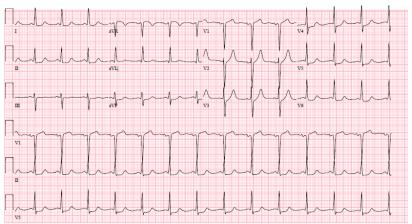


Emergency room presentation

Recent onset unstable angina



00:15h



No angina at presentation

Vitals:

Temperature: 36,9°C

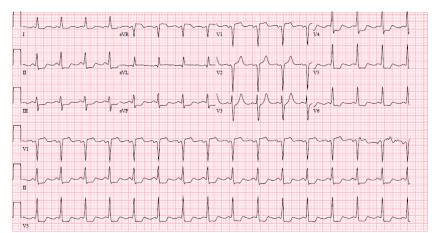
Blood pressure: 110/80 mmHg

Pulse: 80 bpm

Sat: 94%

04:15h





Angina

Vitals:

Blood pressure: 78/40 mmHg

Pulse: 95 bpm

Sat: 91%





Known <u>myelofibrosis</u> patient with multipele stem cells transfusion each one complicated with graft failure leading up to important <u>pancytopenia</u>

<u>Emergency room</u>			1 week prior at ambulatory care		
Hemoglobin	5,7 g/dL	13,5-17,5 g/dL	Hemoglobin	5,3 g/dL	13,5-17,5 g/dL
Trombocytes	25 *10^3 μ/L	150-400 *10^3 μ/L	Trombocytes	38 *10^3 μ/L	150-400 *10^3 μ/L
Leucocytes	2,2 *10^3 μ/L	3,9-10,6 *10^3 μ/L	Leucocytes	2,4 *10^3 μ/L	3,9-10,6 *10^3 μ/L
CRP	99 mg/L	< 5mg/L	CRP	95 mg/L	< 5mg/L
Troponin	180 ng/L	< 14 ng/L	Troponin	Not analysed	< 14 ng/L
Serum creatinine	1,5 mg/dL	0,7-1,2 mg/dL	Serum creatinin	1,7 mg/dL	0,7-1,2 mg/dL







European Heart Journal (2017) 38, 3488–3492 European Society doi:10.1093/eurheartj/ehx531

CURRENT OPINION

Acute coronary syndromes

The management of antiplatelet therapy in acute coronary syndrome patients with thrombocytopenia: a clinical conundrum

Cian P. McCarthy¹, Ph. Gabriel Steg^{2,3}, and Deepak L. Bhatt⁴*

Contacted with hematologist on call

2 units packed cells

1 pool trombocytes

Asperin 250mg IV

Clopidogrel 600mg PO

Urgent radial catheterisation 5 French





Anamnesis:

Persistent chest pains 7-8/10

<u>Vitals</u>

BP: 68/40 mmHg

P: 105 bpm

Sat: 90%

<u>Differential diagnosis?</u>

Aortic dissection ?

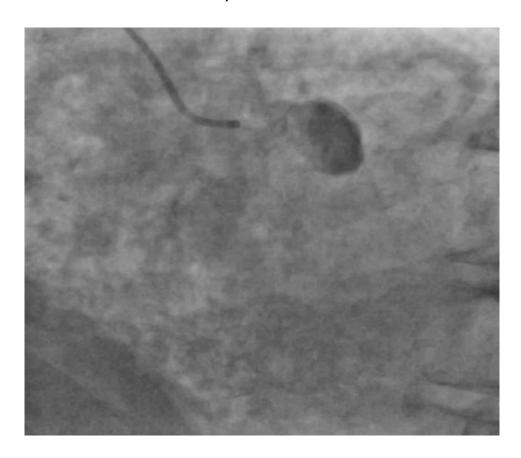
- Perforation?

Congenital anomaly ?

- Aneurysmatic left main occlusion?

Aortic aneurysm?

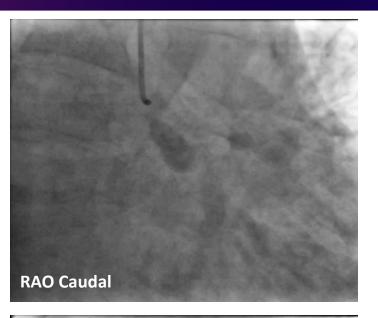
First injection at the level of the left cusp using JL 3,5 5 French

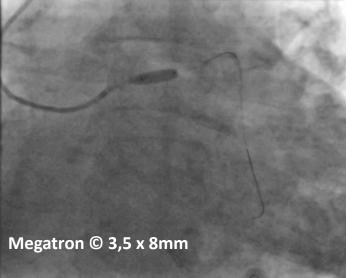


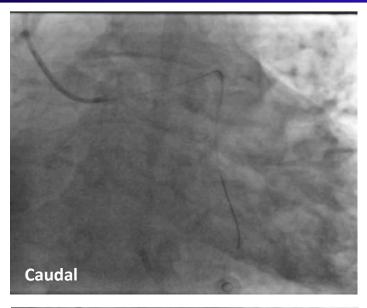


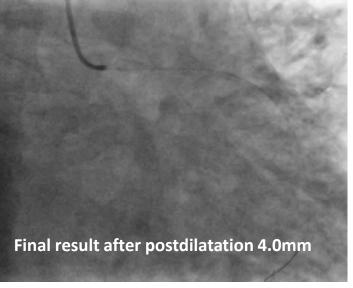
Distal left main stenosis

French radial approach **1**











What about the black hole?

Transoesophageal echocardiograpy

- Inflammation in the aortic wall
- Thickening of aortic leaflets with moderate aortic stenosis
- Formation of a crypt () in close proximity to the left main
- Patent Megatron© stent in left main on color doppler







Pseudo-aneurysm

Ascending aorta pseudo-aneurysm





Compression of the left main between the pseudoaneurysm and the arteria pulmonalis. Megatron© stent in left main.





Conclusion

Native aortic valve bacterial	Haemoculture	Staphylococcus Capitis
endocarditis	Oxacillin	R
	Ampicillin	R
Infective aorta ascendens pseudoaneurysm	Amoxicillin / Clavulanic	R
infective aorta ascendens pseudoaneurysin	Piperacillin / Tazobactam	R
Distal left main stenosis	Cefazolin	R
Vocavlitia	Cefuroxim	R
- Vasculitis	Cefepim	R
- Extrinsic compression	Ceftazidim	R
	ceftriaxon	R
- Pre-existing coronary disease	Meropenem	R
	Erythromycin	R
Given the hematologic comorbidity the heart team and hematology staff opted	Clindamycin	R
for a conservative, non surgical approach was	Levofloxacin	R
Out patient antibiotic therapy was started with Vancomycin	Gentamycin	S
4 weeks later the patiënt was hospitalised with a Klebsiella Pneumoniae sepsis	Vancomycin	S
which resulted in multi organ failure and death	Linezolid	S