



# INTRACARDIAC MIGRATION OF A STENT IMPLANTED IN THE SUPERIOR VENA CAVA



Presentation of a severe complication  
after endovascular treatment of  
superior vena cava syndrome.



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**Xerencia de Xestión Integrada  
de Santiago de Compostela**  
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# Disclosure

Speaker name:

....Nancy M. Coraizaca .....

I have the following potential conflicts of interest to report:

Consulting

Employment in industry

Stockholder of a healthcare company

Owner of a healthcare company

Other(s)

I do not have any potential conflict of interest

# INTRACARDIAC MIGRATION OF A STENT IMPLANTED IN THE SUPERIOR VENA CAVA

## OBJETIVE

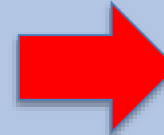
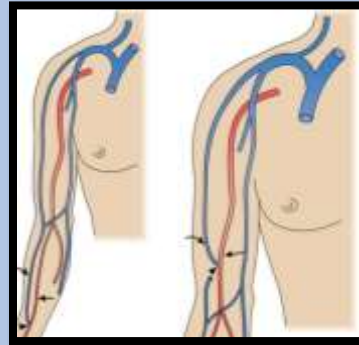


to comment on this case because it is a rare complication and can be life threatening.

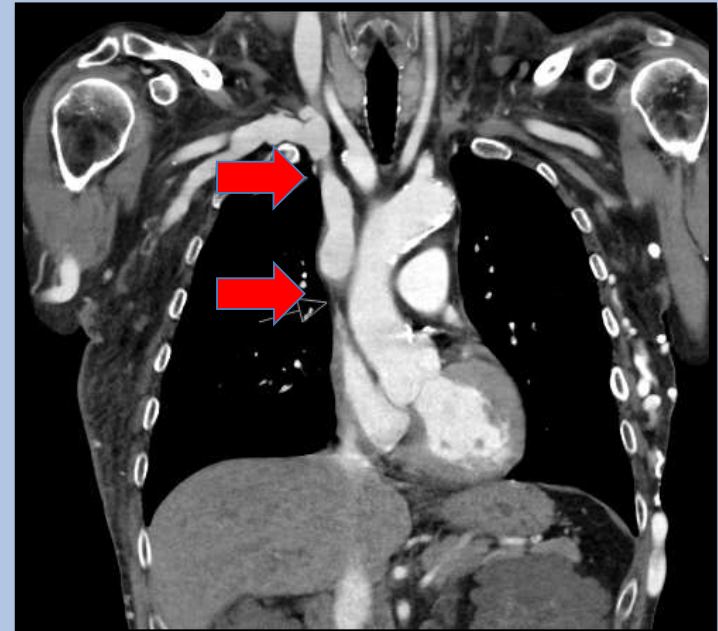
# INTRACARDIAC MIGRATION OF A STENT IMPLANTED IN THE SUPERIOR VENA CAVA

## CLINICAL CASE

- 64 years old male.
- Smoker
- Hemodialysis since 2014
- Arterial hypertension



**SUPERIOR VENA CAVA SYNDROME**



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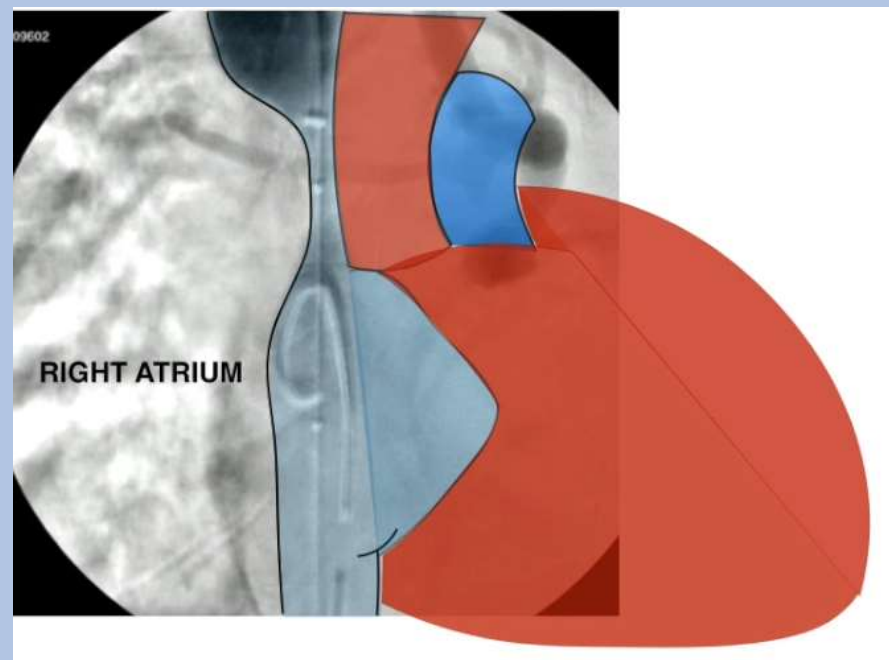
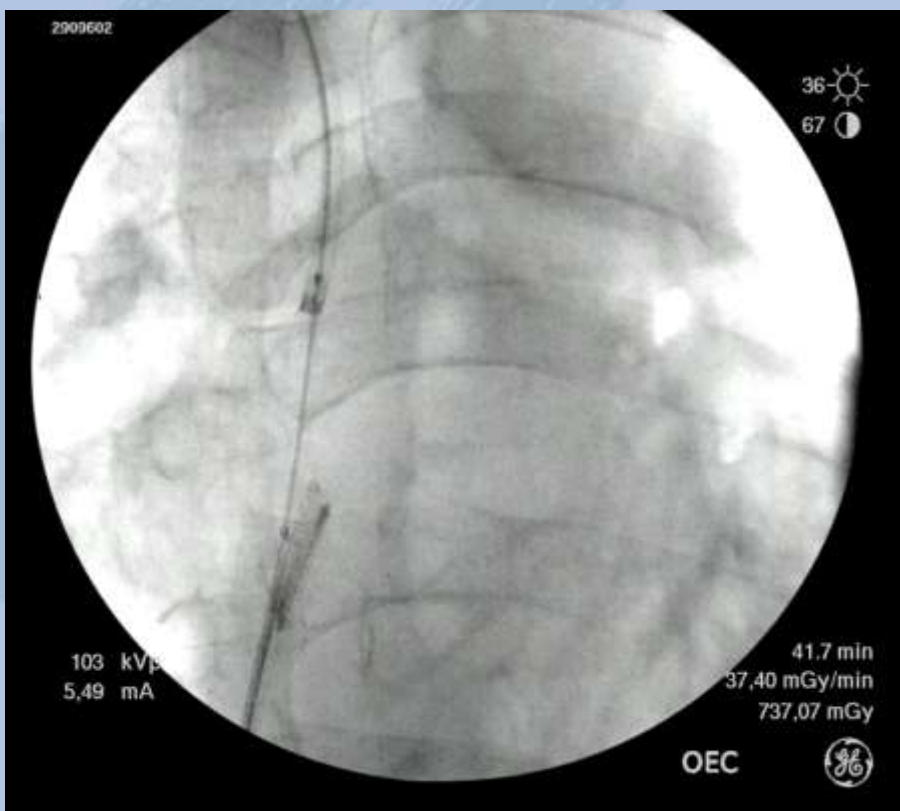
## TREATMENT OF SUPERIOR VENA CAVA SYMPTOM



Cephalic and femoral vein access

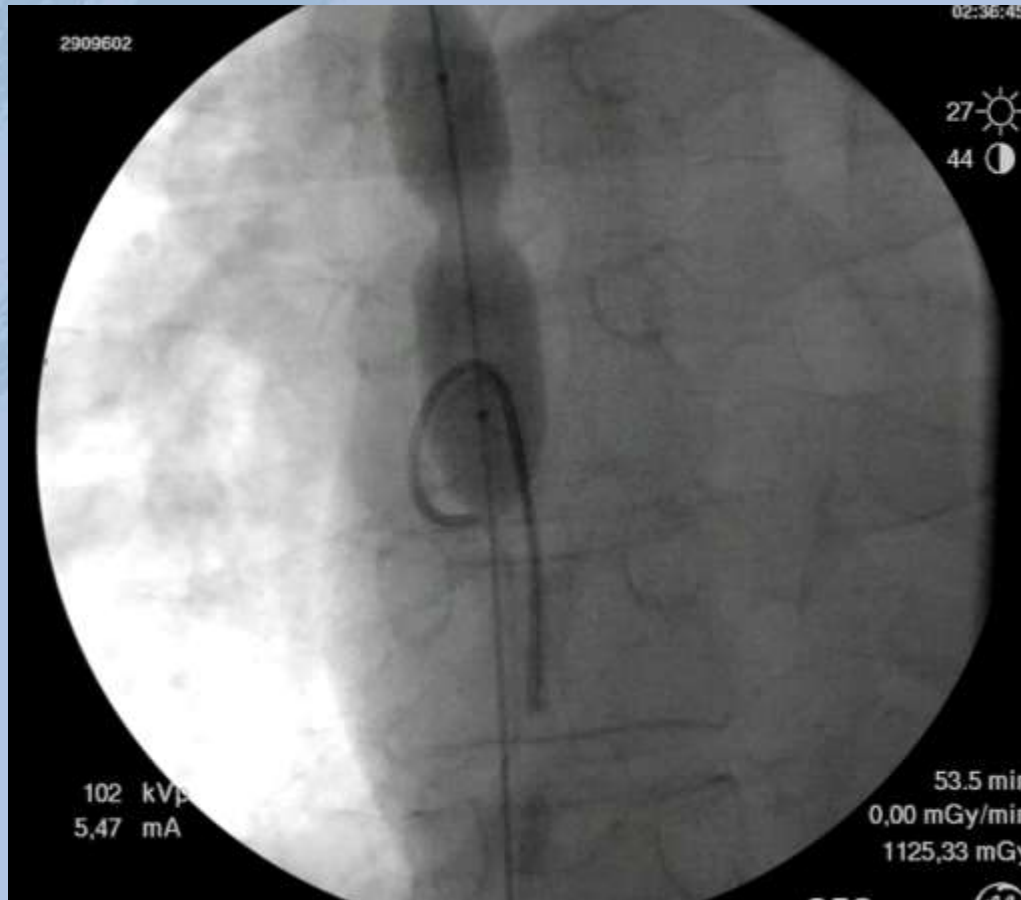
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## TREATMENT OF SUPERIOR VENA CAVA SYMPTOM



# INTRACARDIAC MIGRATION OF A STENT IMPLANTED IN THE SUPERIOR VENA CAVA

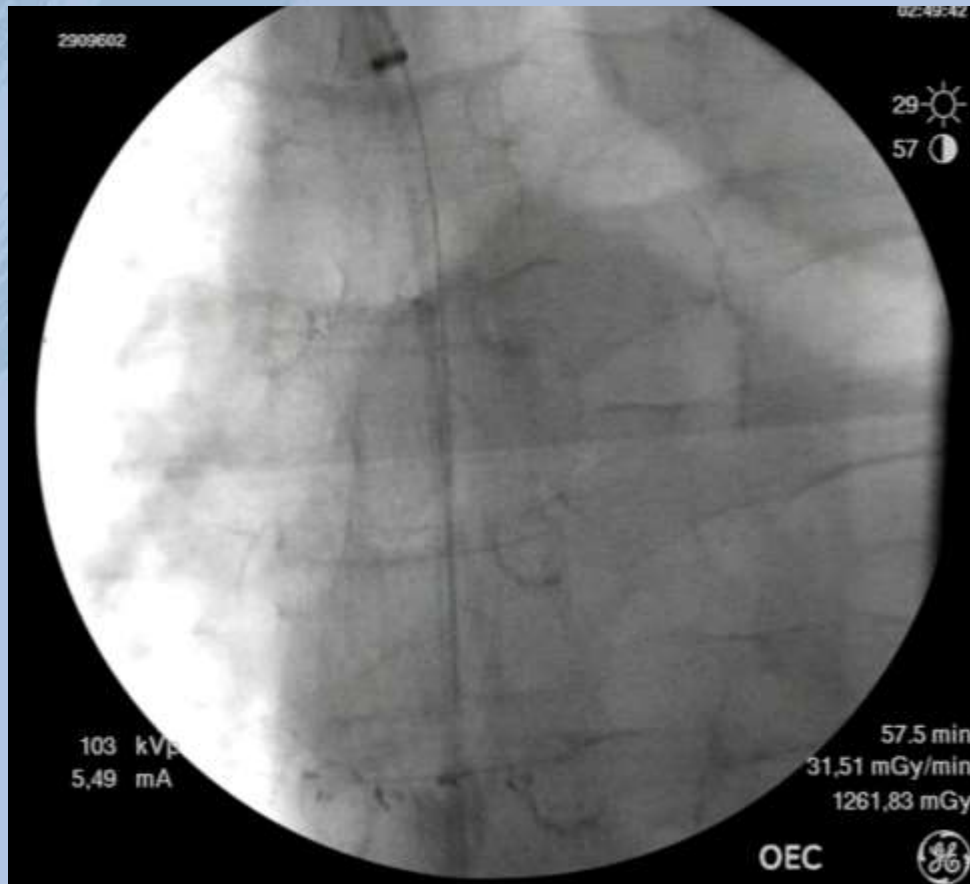
## TREATMENT OF SUPERIOR VENA CAVA SYMPTOM



Predilation  
Self-expandable stent (24x43 mm)

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## TREATMENT OF SUPERIOR VENA CAVA SYMPTOME

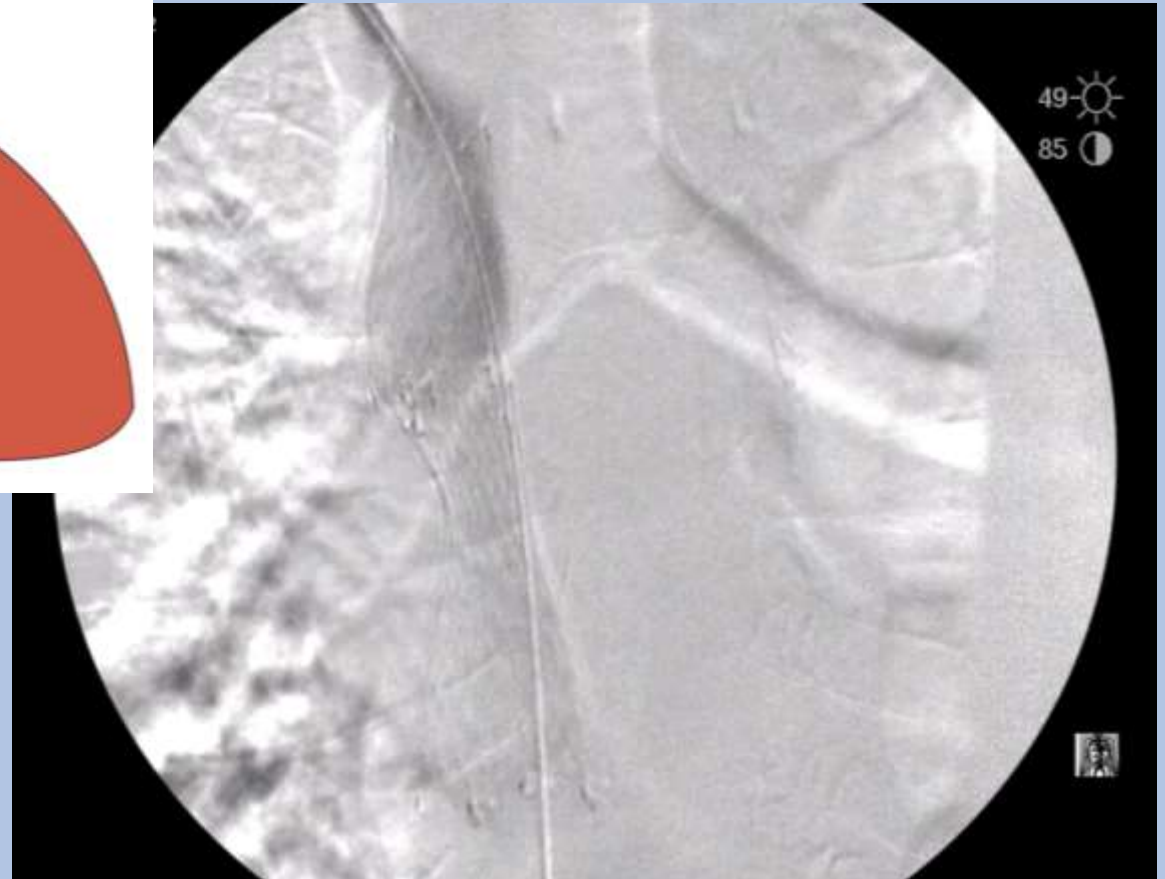
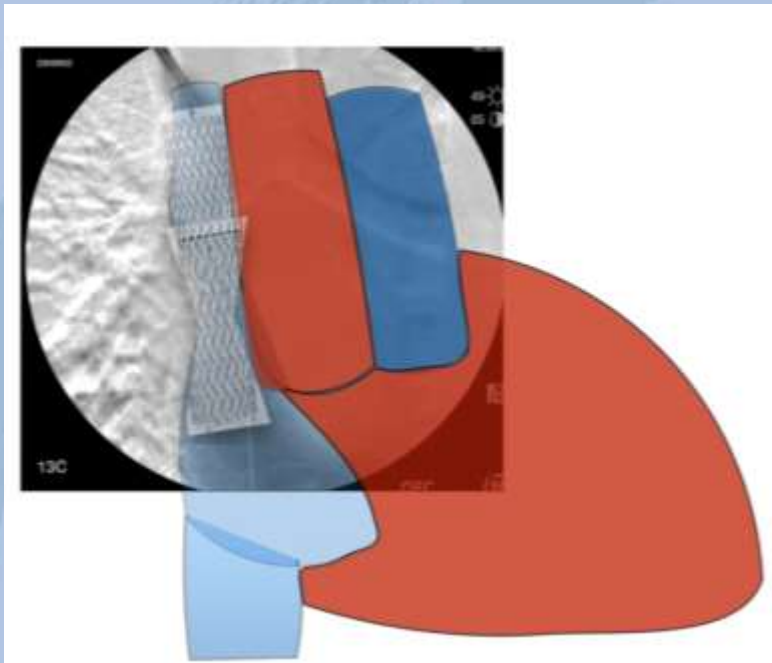


Self-expandable stent (26x60mm)



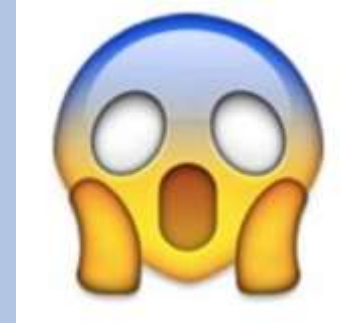
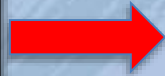
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## TREATMENT OF SUPERIOR VENA CAVA SYMPTOM



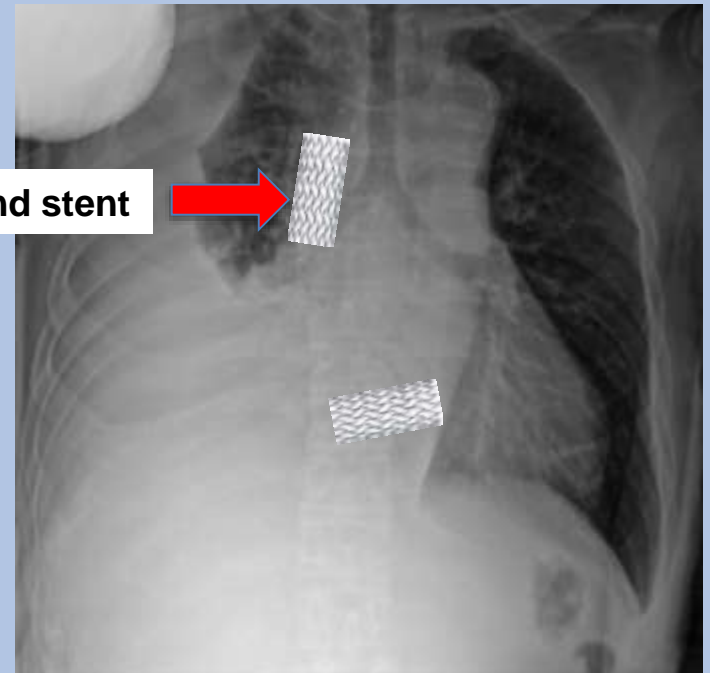
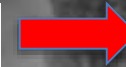
Intracardiac migration of a stent  
implanted in the superior vena cava

# EVOLUTION



4 months after surgery

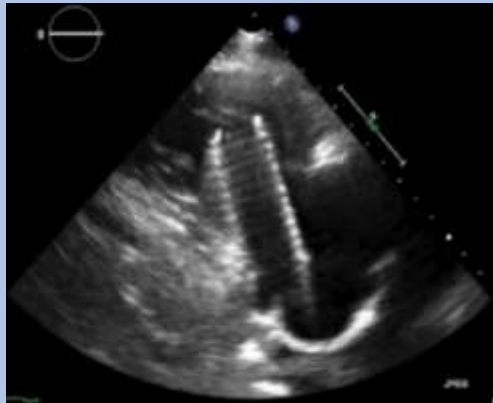
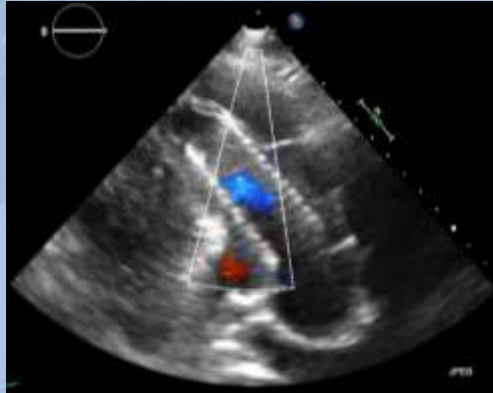
second stent



WHERE IS THE  
STENT ?

# Intracardiac migration of a stent implanted in the superior vena cava

## TTE



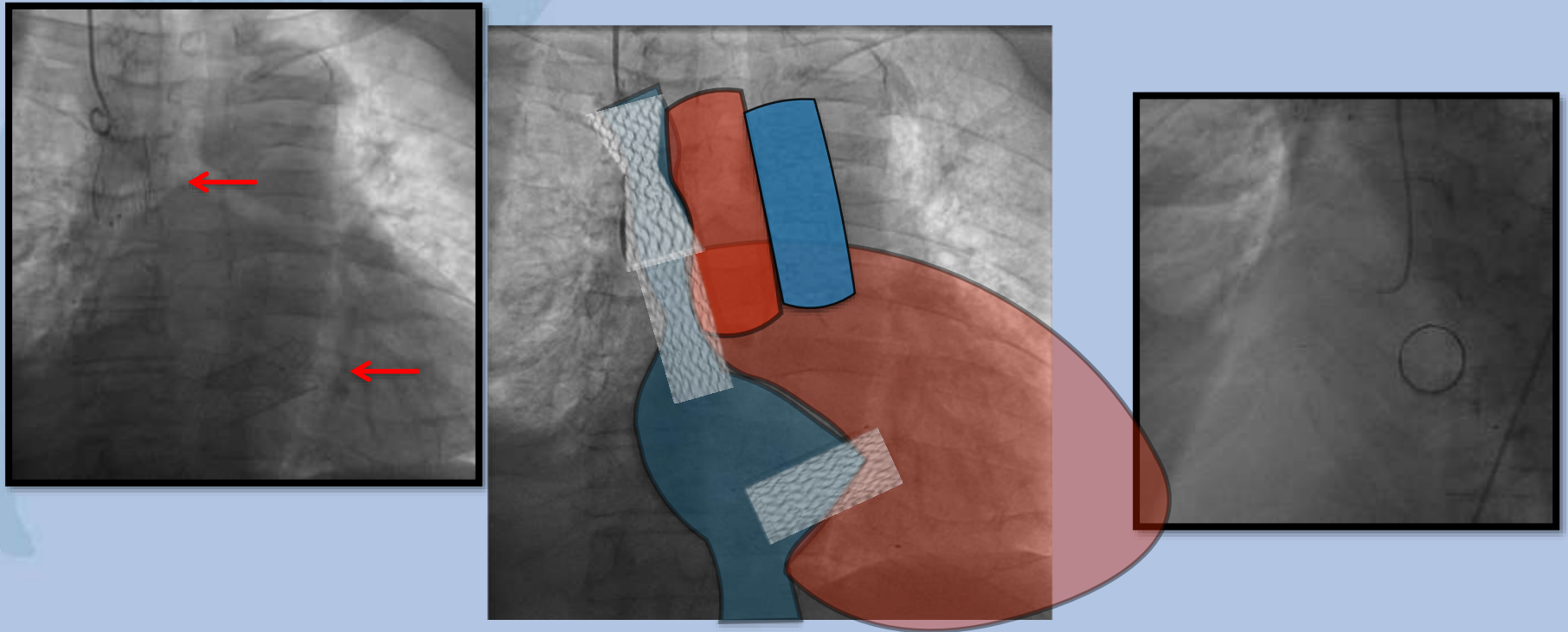
## CARDIAC CT



**TTE:** The stent crosses the tricuspid valve and causes severe tricuspid insufficiency.

Intracardiac migration of a stent  
implanted in the superior vena cava

# DIAGNOSTIC CORONARY ANGIOGRAPHY



Coronary atheromatosis without significant stenosis

Severe stenosis in SVC

Migration of stent in right atrium

**Intracardiac migration of a stent  
implanted in the superior vena cava**

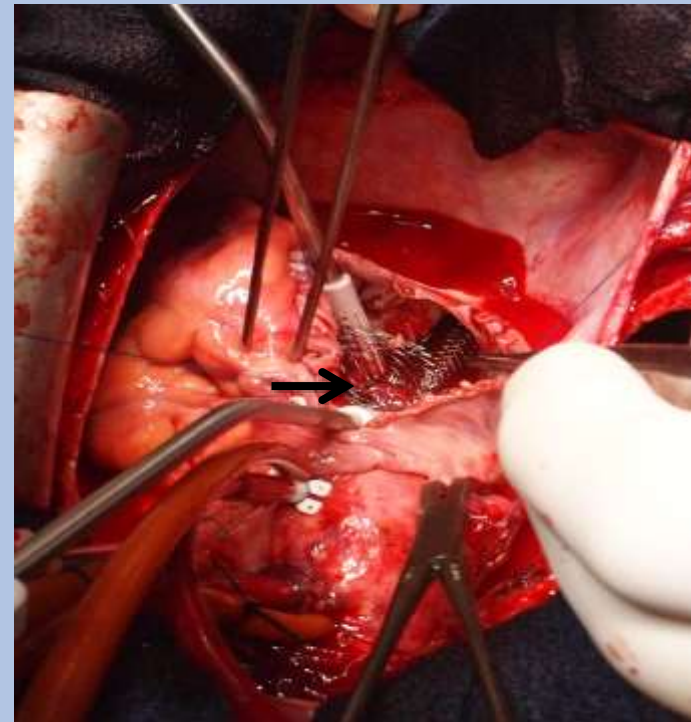
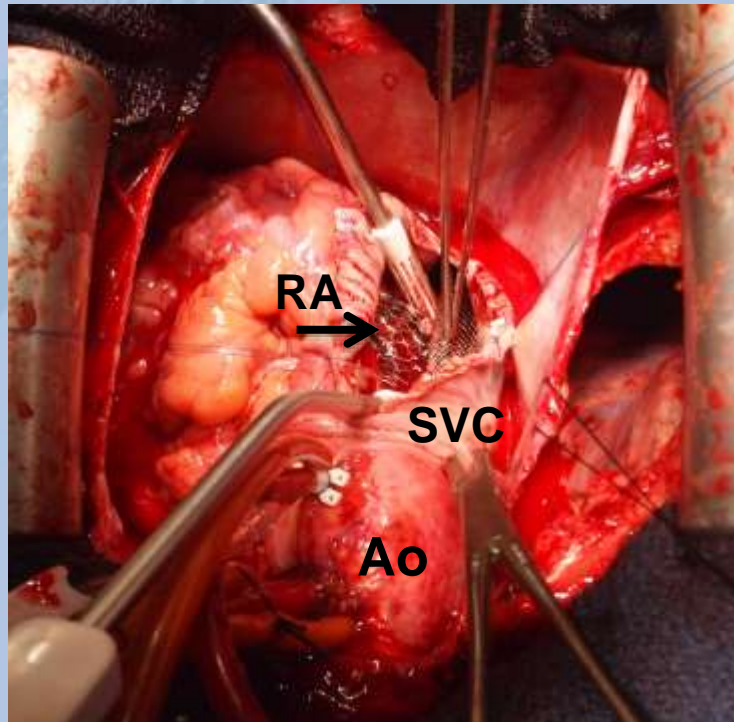
**WE HAVE A BIG BIG PROBLEM !!!!!**



**TREATMENT ???**

# Intracardiac migration of a stent implanted in the superior vena cava

## TREATMENT



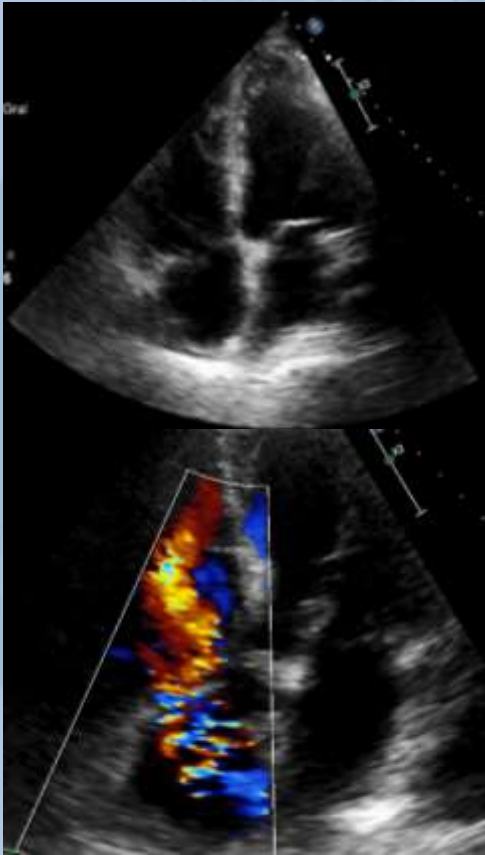
(Cardiac surgery)

A surgical explant of stent plus annuloplasty of the tricuspid valve  
(disruption of anterior leaflets.)

**NO treatment of SVC stenosis : significant blood flow from SVC**

# Intracardiac migration of a stent implanted in the superior vena cava

## EVOLUTION



Before



After

**TTE:** mild tricuspid insufficiency, right ventricle not dilated

**Hospital discharge :** 13 days after of the surgery

No postoperative complications

Intracardiac migration of a stent  
implanted in the superior vena cava

# FOLLOW-UP

**5 MONTHS LATER**



RIGHT humerus-cephalic fistula is functional

**SVC syndrome** remains compensated with permeability of one of the stents  
No complementary endovascular treatment in stenosis of SVC



## Intracardiac migration of a stent implanted in the superior vena cava

# CONCLUSIONS

- The endovascular treatment of SVC syndrome is the first option
- To identify technical issues can prevent future complications
- Intracardiac migration of the stent is one of the catastrophic complication and it can be life threatening

# THANK YOU



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