

# ProEducar Fellows Course – Module 3

## Joint session @CACI

# Learning Case: Complication in Structural Interventions

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Hombre de 72 años - DBT -Dislipemia.

Antecedentes de :

2019 RVAo con protesis biológica - St Jude Trifecta nº 25 por EAO.

Estenosis carotídea interna derecha moderada.

Enfermedad Actual:

Disnea progresiva en 6 meses hasta CF III

# Ecocardiogama

VI 58/39 mm.

S/P 9 mm.

Rao 30 mm.

TAPSE 19 mm.

Fey 65%.

PSAP 37 mmHg

Prótesis biológica disfuncionante

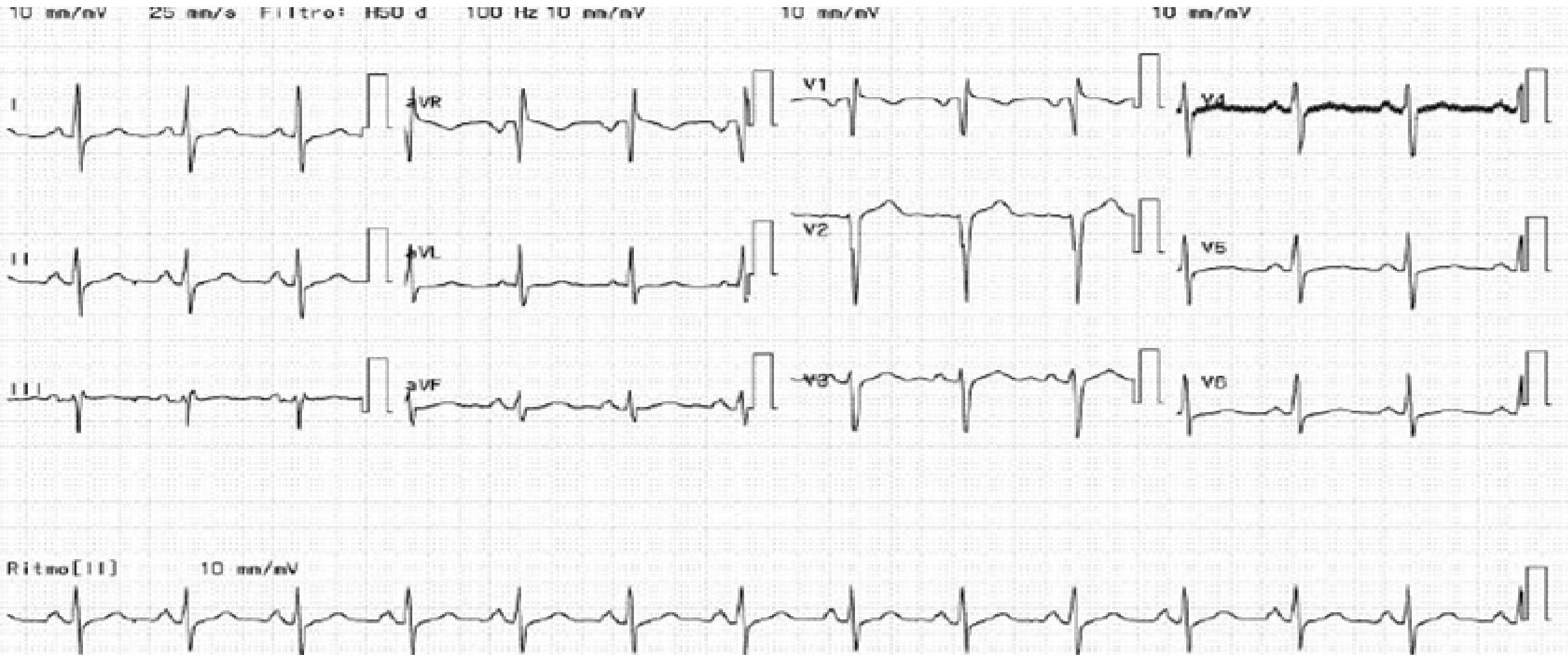
Insuficiencia aórtica severa,  
intraprotésica (ORE 0.64 cm<sup>2</sup>, Vol  
reg 90 ml).

Insuficiencia mitral moderada, jet  
excéntrico (ORE 0.22, Vol reg 39).

Insuficiencia tricuspídea y  
pulmonar leve.

# ECG

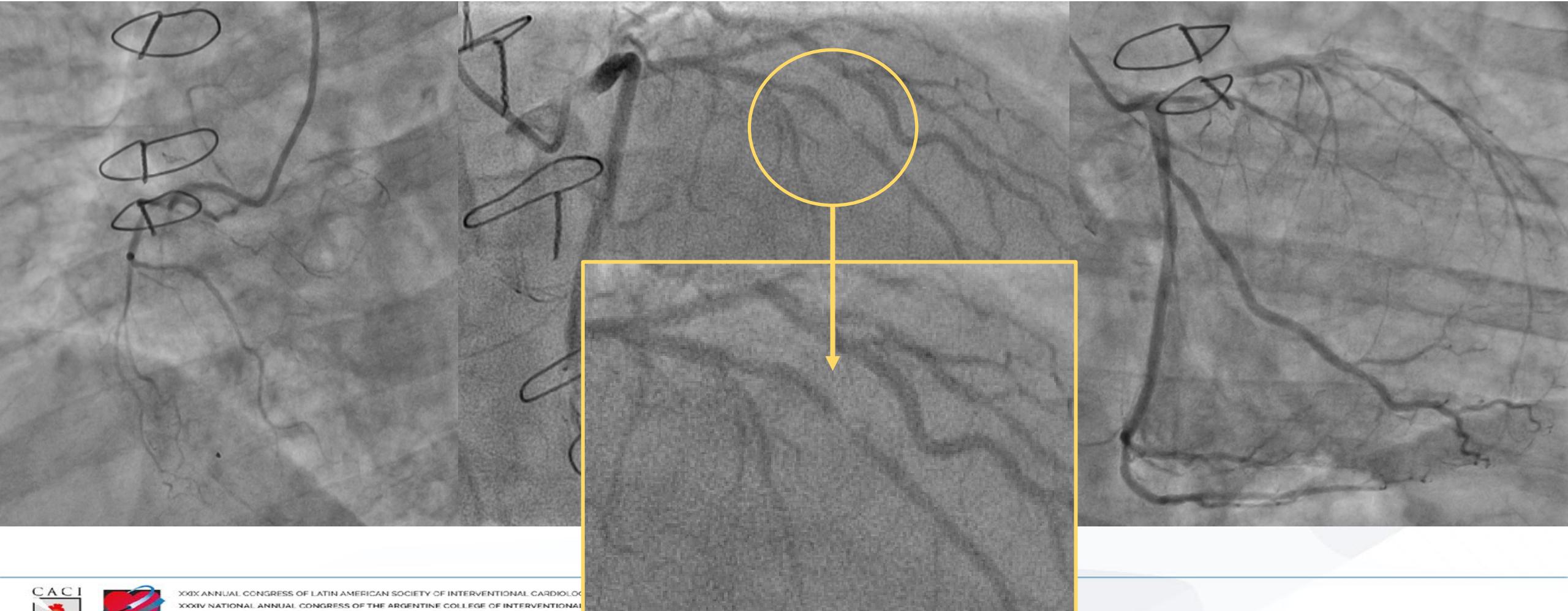
10 mm/mV 25 mm/s Filtro: H50 d 100 Hz 10 mm/mV



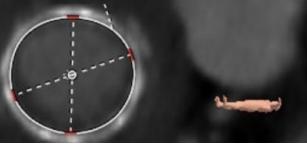
Ritmo [1]

10 mm/mV

# Coronariografia



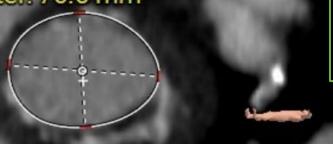
Annulus Dimensions  
Min. Ø: 20.8 mm  
Max. Ø: 22.0 mm  
Avg. Ø: 21.4 mm  
Area derived Ø: 21.5 mm  
Perimeter derived Ø: 21.5 mm  
Area: 363.3 mm<sup>2</sup>  
Perimeter: 67.6 mm



Anillo

Diam= 20.8x22  
DD = 21.5  
Area=363mm2  
Perim=67,6

LVOT Dimensions  
Min. Ø: 21.5 mm  
Max. Ø: 26.7 mm  
Avg. Ø: 24.1 mm  
Area derived Ø: 24.0 mm  
Perimeter derived Ø: 24.2 mm  
Area: 451.2 mm<sup>2</sup>  
Perimeter: 76.0 mm



LVOT

Diam= 21.5x26  
DD = 21.0  
Area=451mm2  
Perim=76

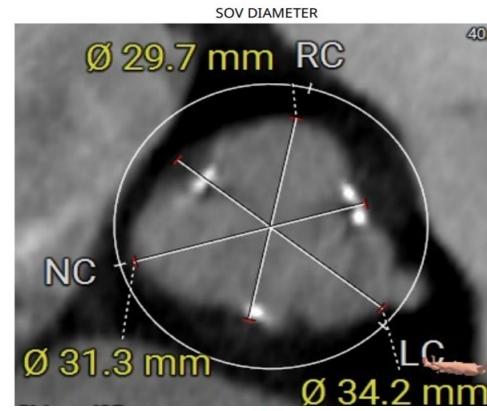
Sinotubular Junction Diameter  
Min. Ø: 27.5 mm  
Max. Ø: 30.5 mm  
Avg. Ø: 29.0 mm



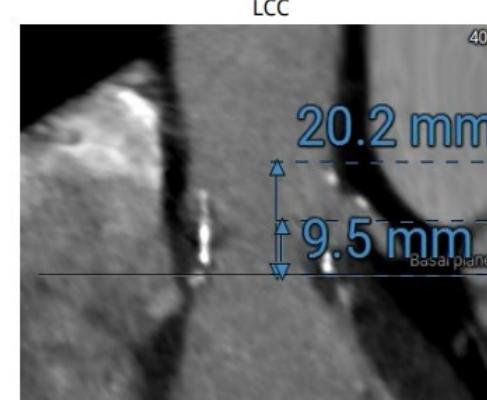
STJ

Min= 27.5  
Max = 30.5  
Prom= 29

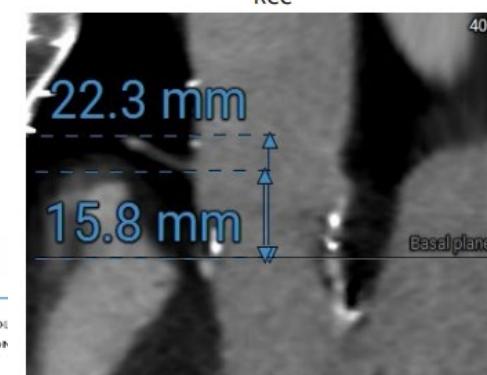
# Tomografía



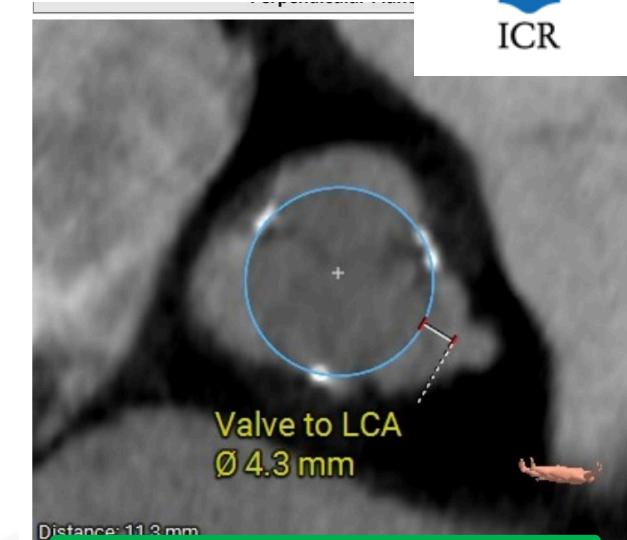
Senos  
RC= 29,7  
NC = 31.3  
LC= 34.2



Altura Seno  
LC= 20.2  
LCA= 9.5



Altura Seno  
RC= 22.3  
RCA= 15.8

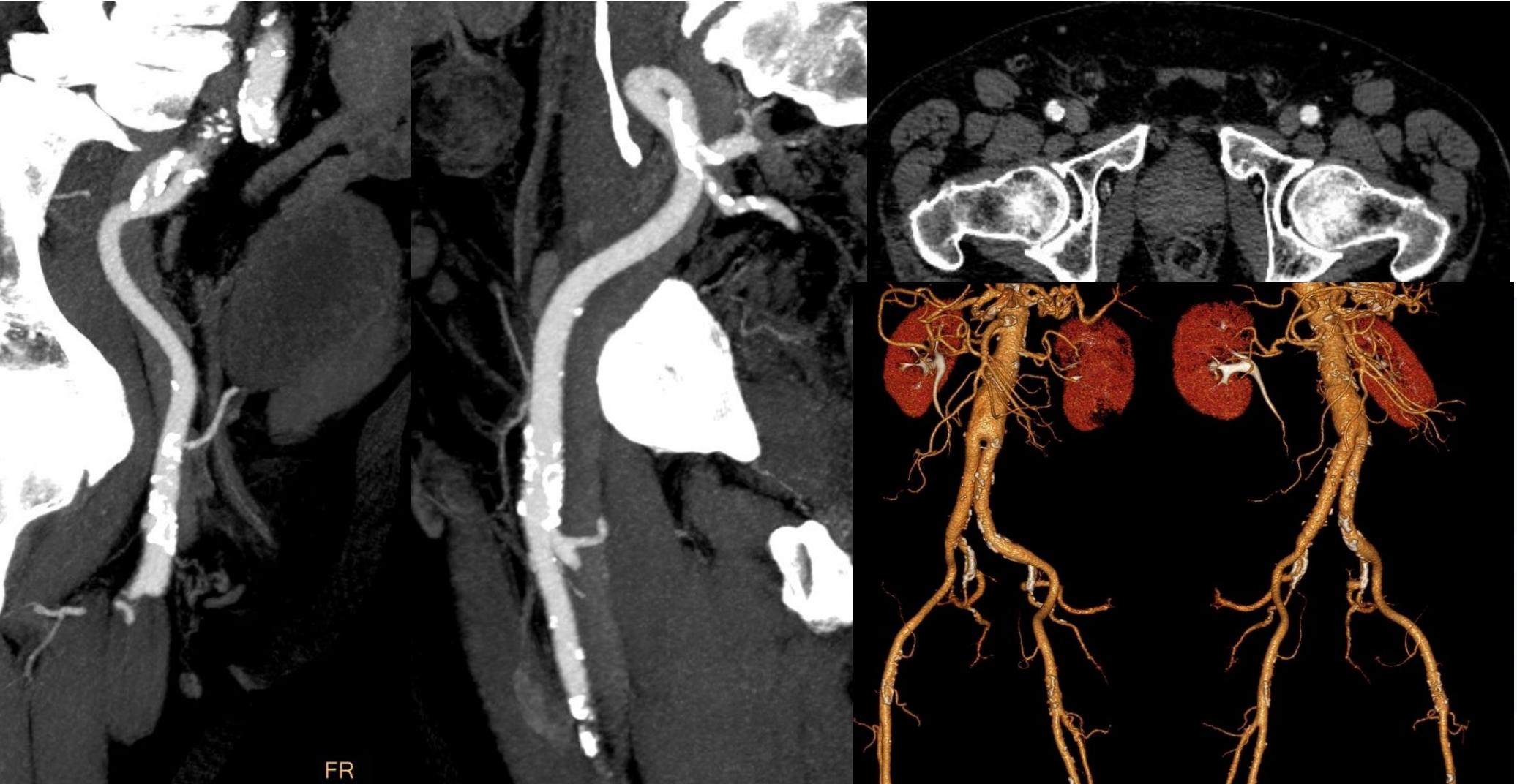


Valve to LCA: 4.3 mm



Valve to RCA: 5.7 mm

# Accesos

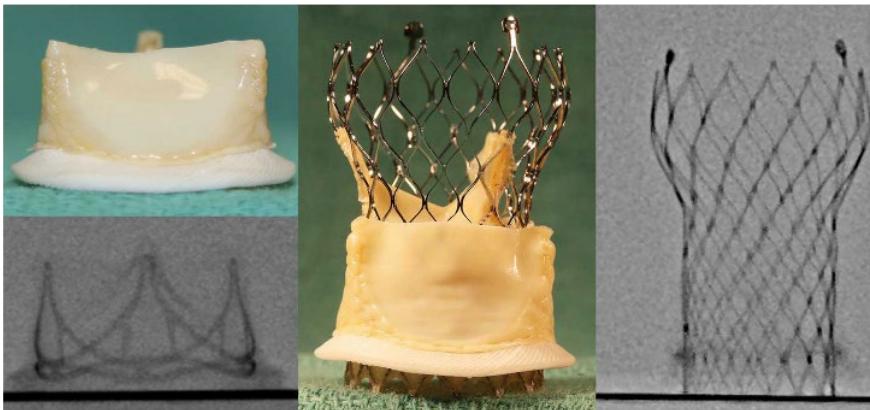
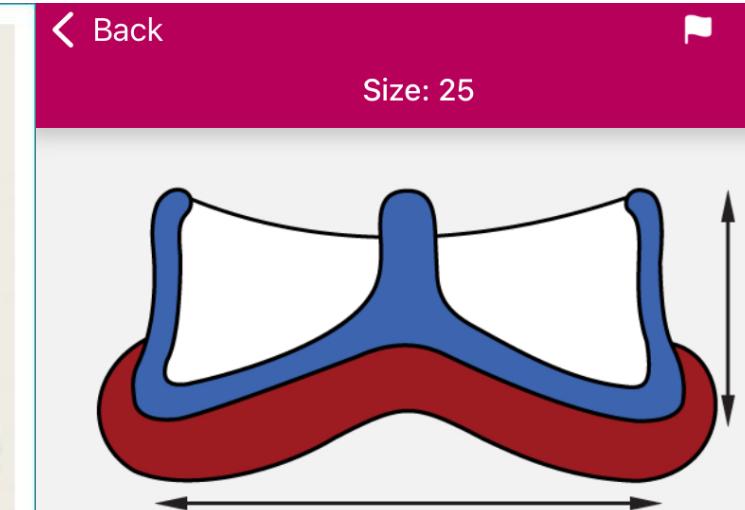


# Estrategia terapéutica

- En Heart team se define realizar TAVI.
- Angioplastia a DA previamente
- Acceso percutáneo femoral derecho con Proglide.
- Prótesis valvular aórtica biológica transcatéter autoexpandible (Evolut Pro+) Nº 26
- Liberación con alineación comisural.
- Marcapaseo a través de la cuerda en VI.
- Bajo anestesia local y sedación consciente
- En base a variables anatómicas obtenidas por angiotomografía, se decide realizar sin protección coronaria.

# Estrategia terapéutica

- Valvula Trifecta
- Stented
- No fracturable
- Suturas valvas externas

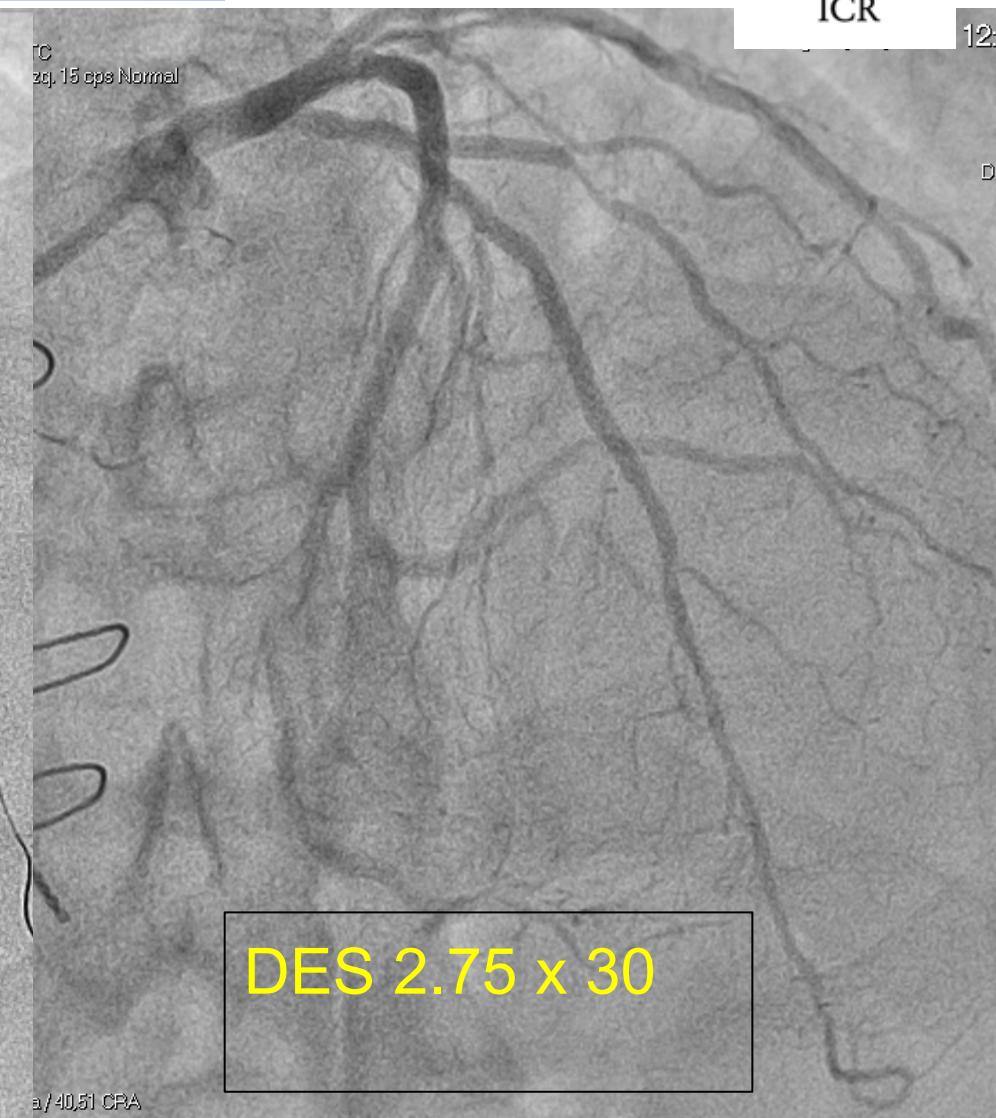
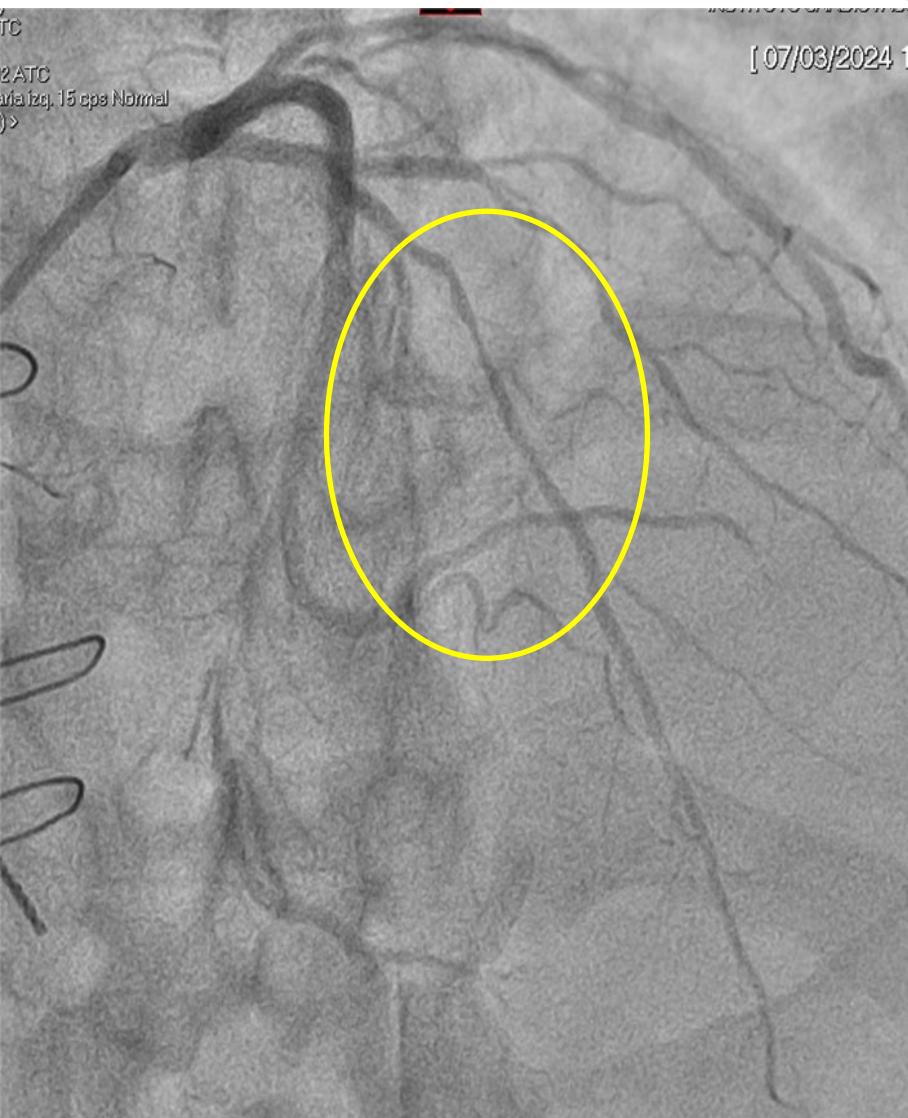


Non-Fracturable i  
True Balloon Size: N/A

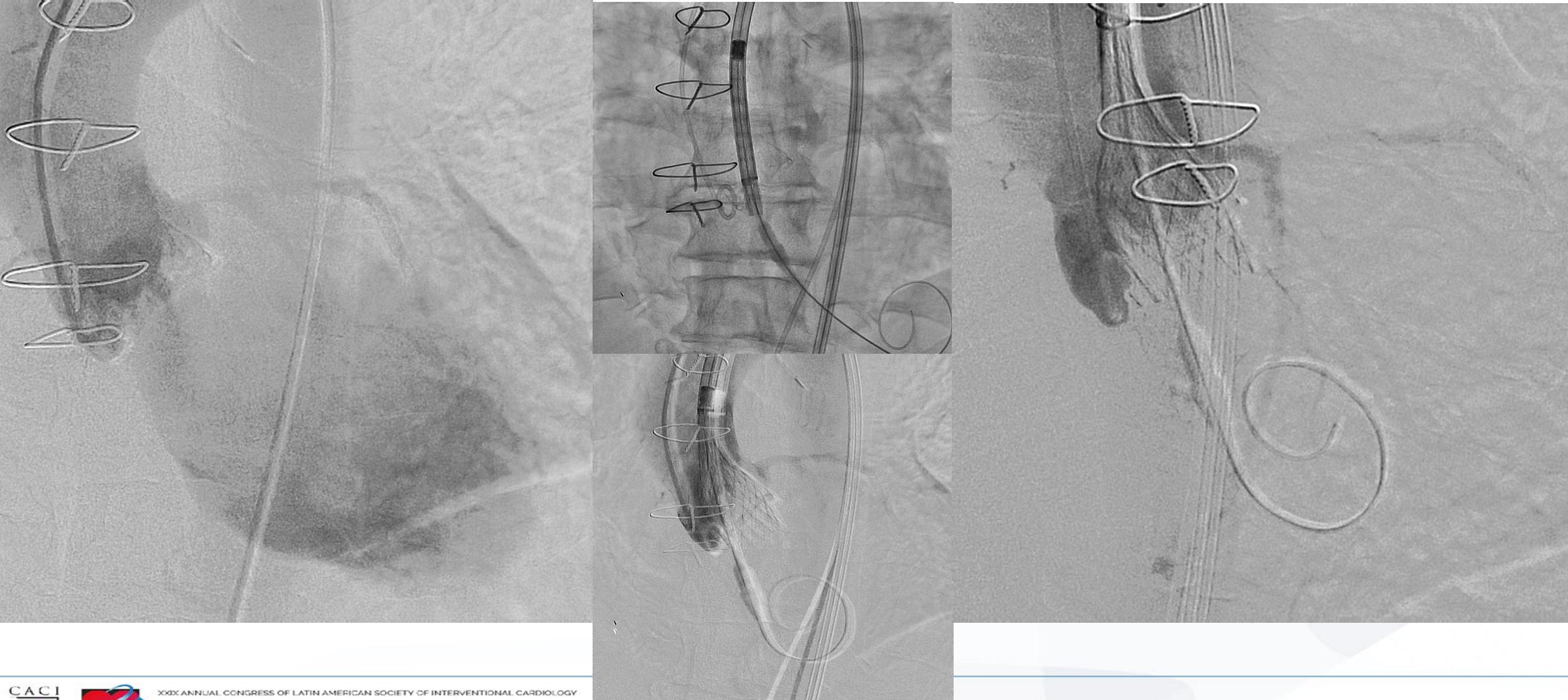
THV CURRENT

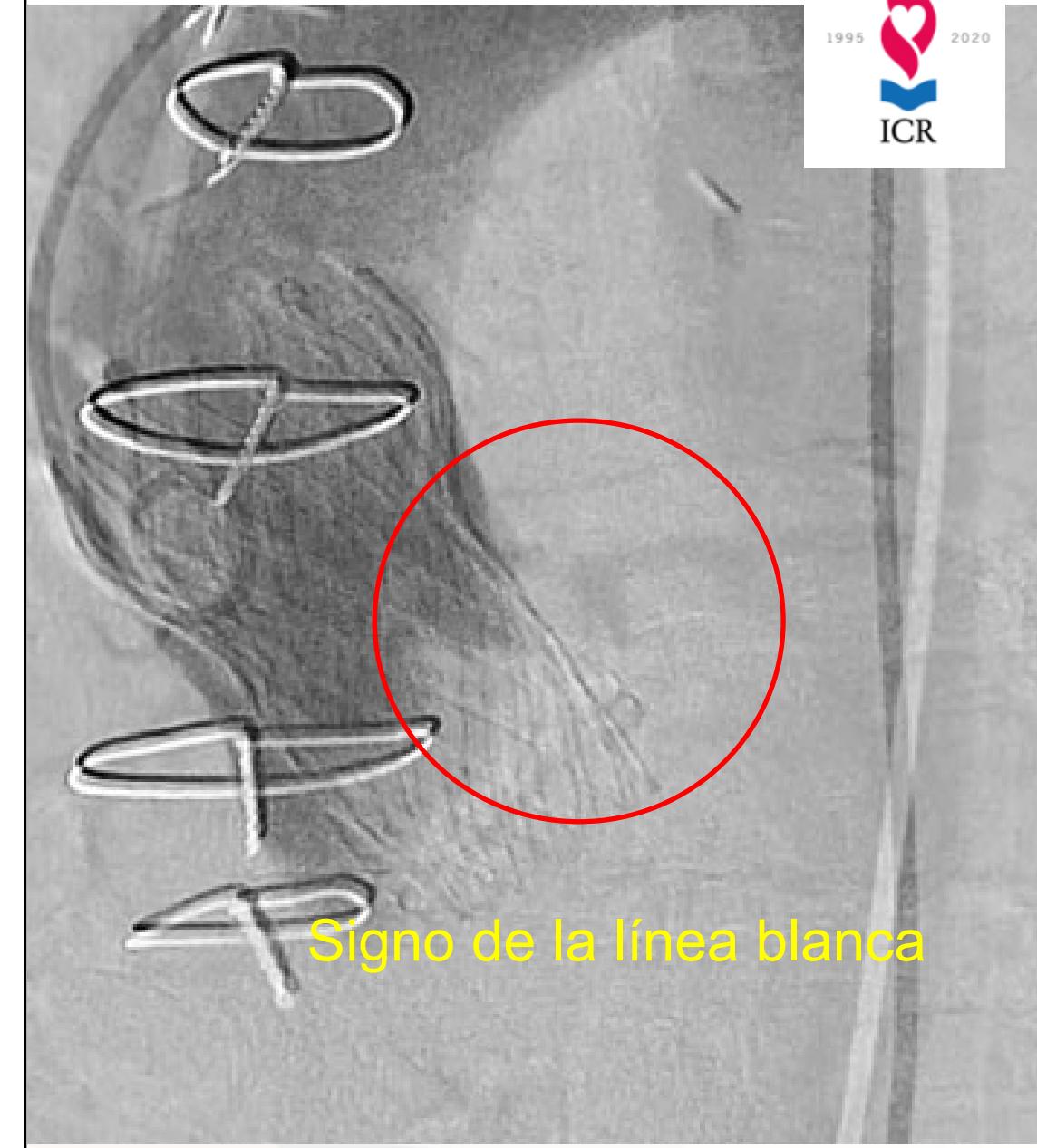
THV ARCHIVED

# Angioplastia DA



# Implante Valvular





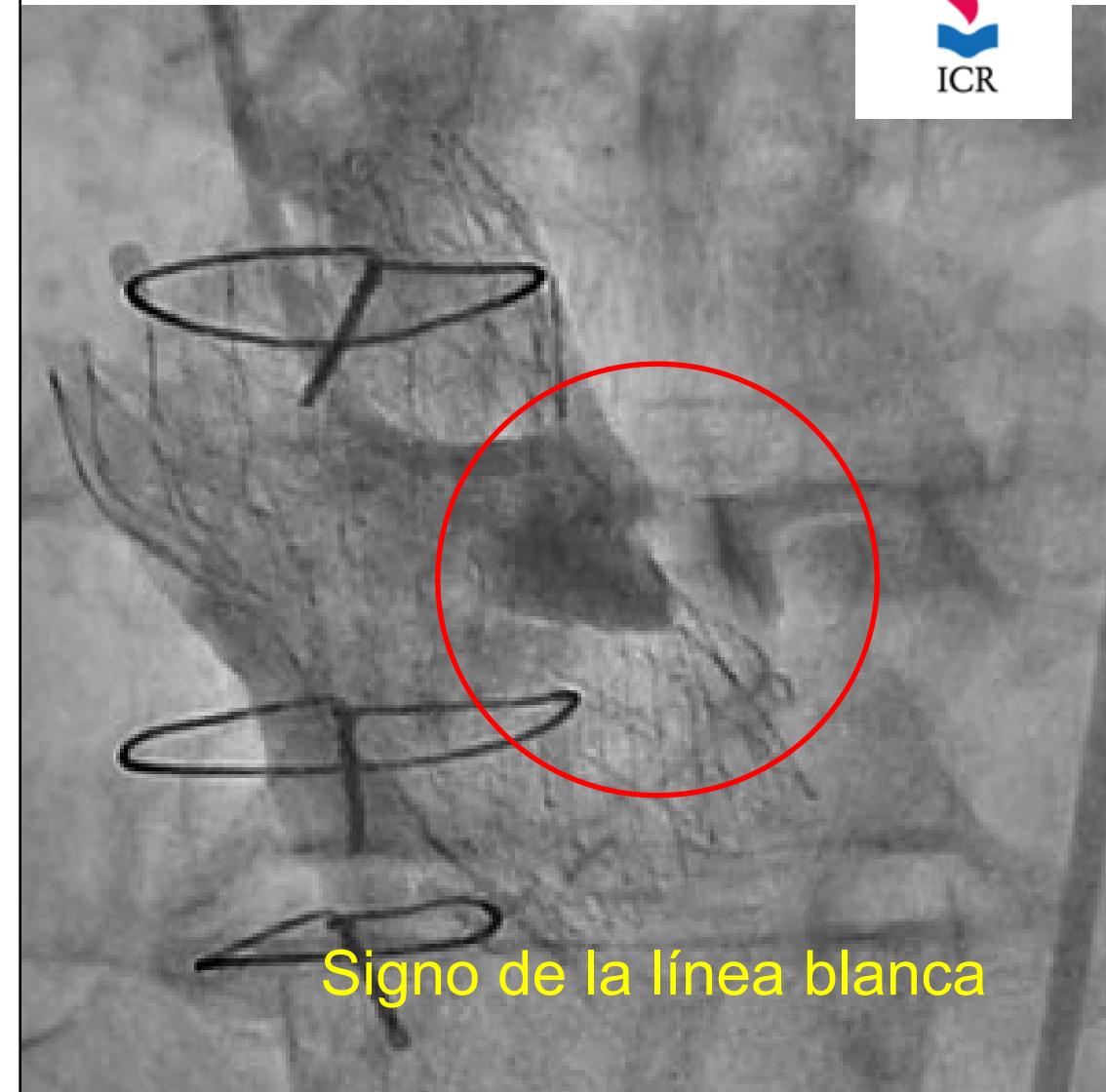
Signo de la línea blanca



1995

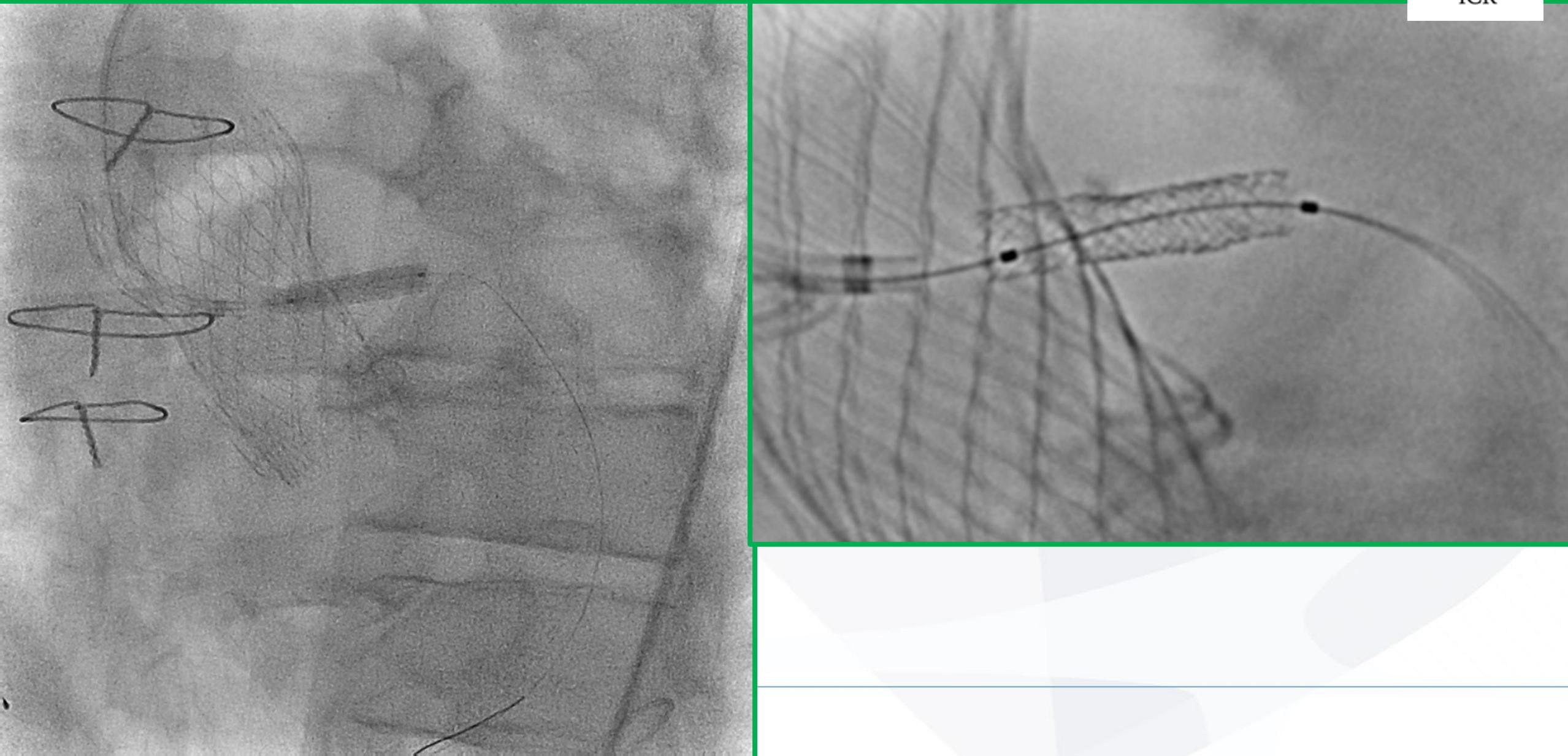
2020

ICR











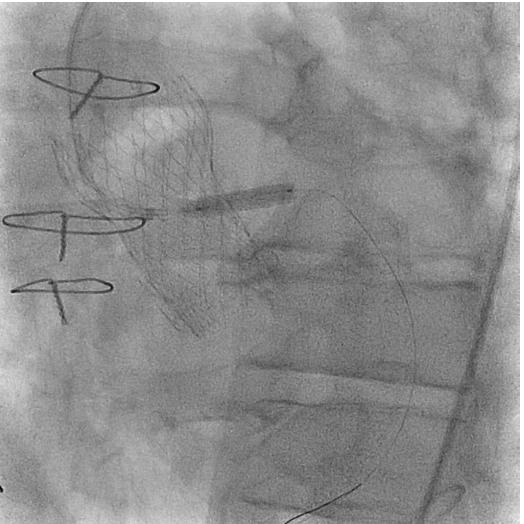
# Evolución

- Evolución favorable
- Sin trastornos de la conducción
- Ecocardiograma Doppler TT:
  - Gradiente medio 5 mmHg sin leak
  - Fey 40%
- Alta a las 72 hs del procedimiento.

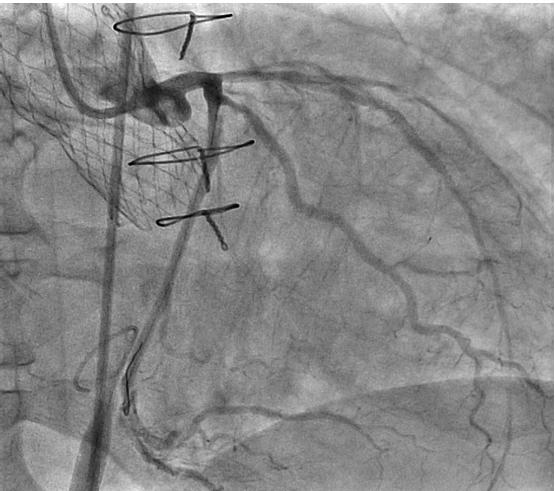
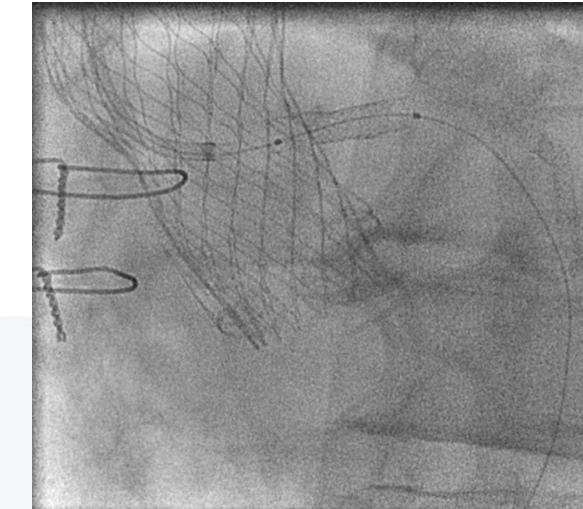
A night photograph of a residential street. On the left, a two-story house with white trim and a balcony is illuminated from within. A large tree with dense foliage stands in front of it. To the right, another building with a stone facade and a set of stairs leads up to its entrance. The sky is dark, suggesting it is nighttime.

Gracias por su atención

## Procedimiento



PCI DES TCI



Control final. TCI Flujo  
TIMI III.

