



LAAO

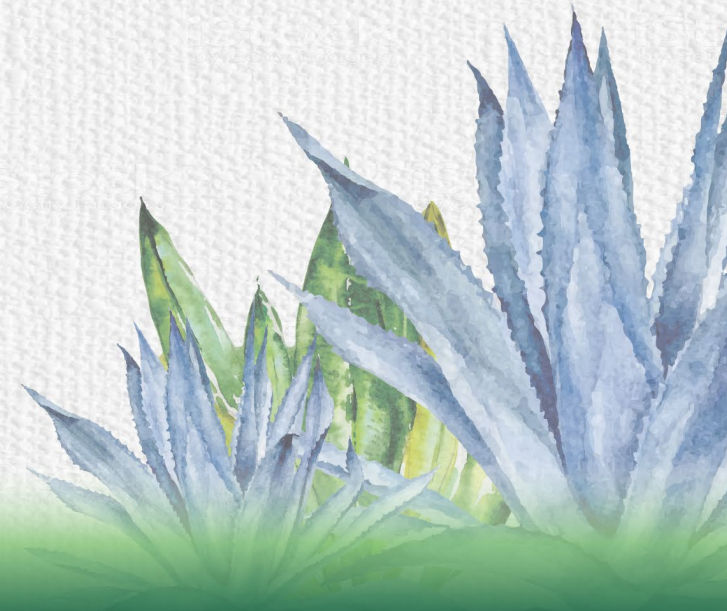
Step-by-Step

Roberto Muratalla Gonzalez MD
Structural Interventionist
CMN 20 Nov ISSSTE
MEXICO

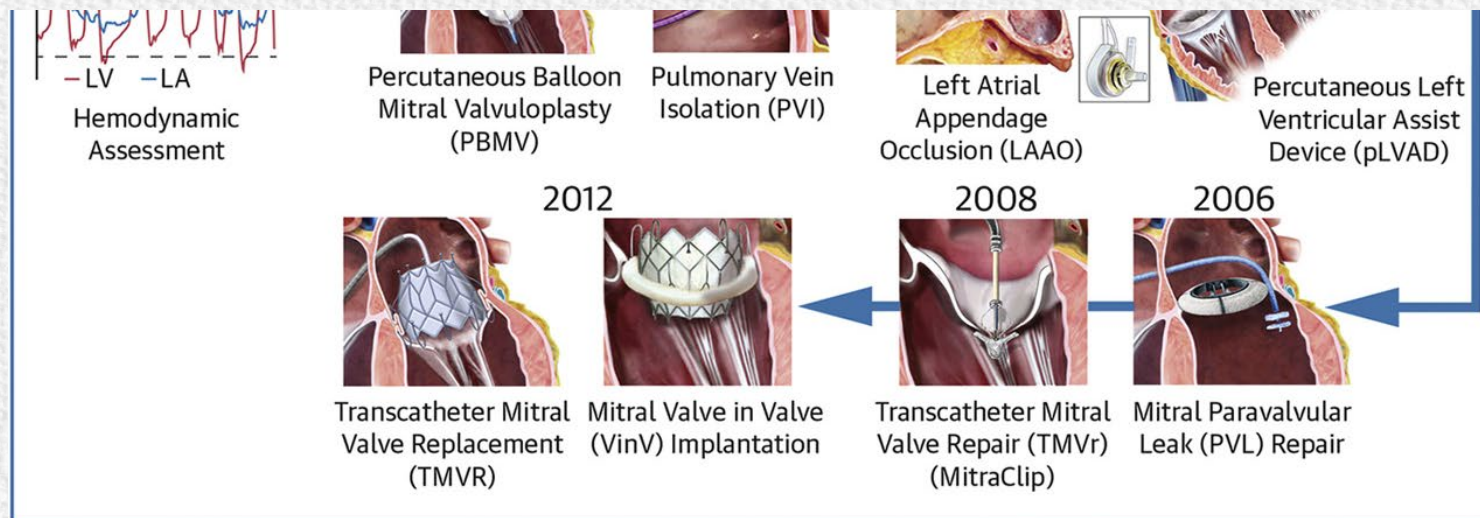


Disclosures

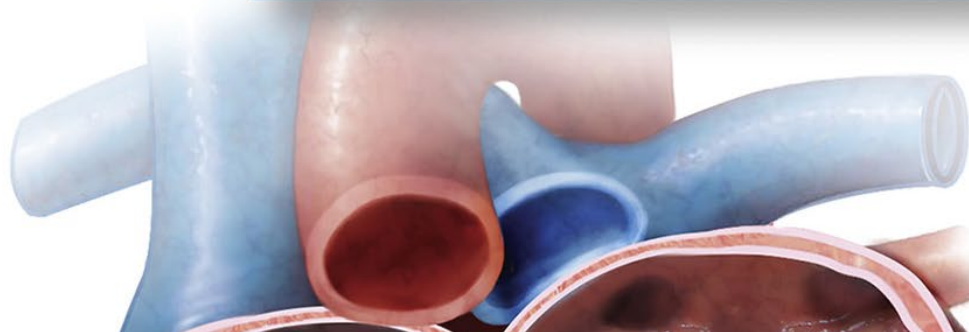
- Proctoring and Consulting for **TAVR**:
 - Edwards Lifesciences for Sapien 3, Sapien Ultra and Sapien Ultra Resilia.
 - Abbott for Navitor Flex Nav
 - Medtronic for Evolut Pro Fx
- Proctoring and Consulting for **LAAO**:
 - Boston Scientific for Watchman Flx
 - Abbott for Amulet
 - Proctor for LAMbre Implant



Transeptal Puncture



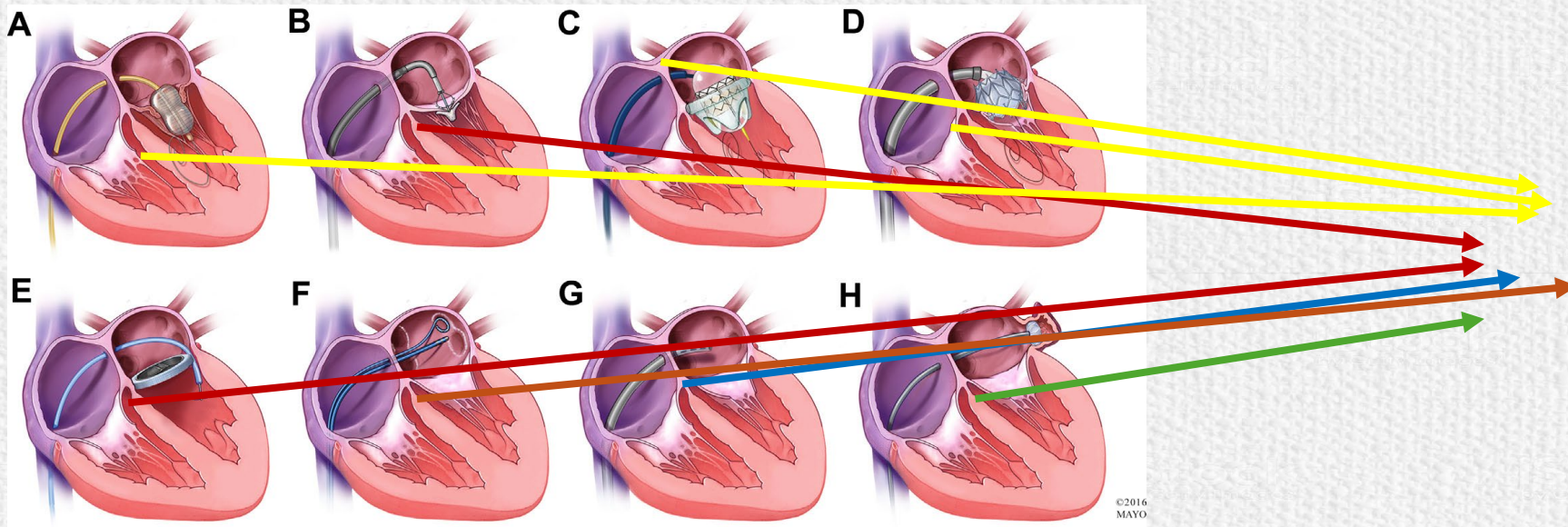
Contemporary Transseptal Catheterization



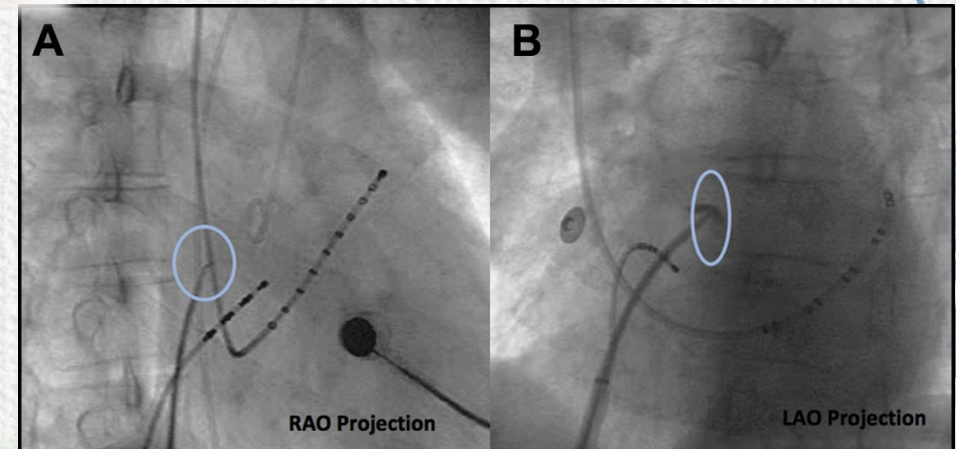
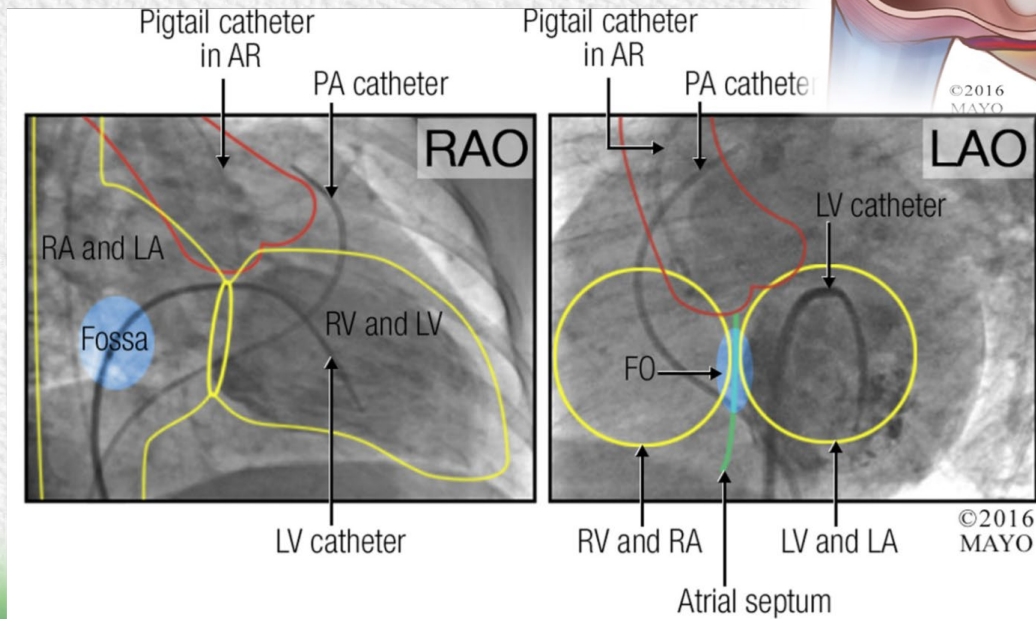
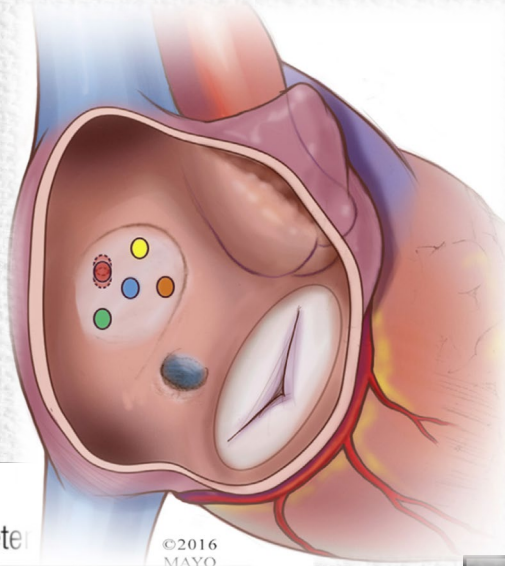
Imaging Guidance

- TEE (Biplane, 3D)
- Intracardiac Echo
- Fusion Imaging

Transeptal Puncture



Transeptal Puncture

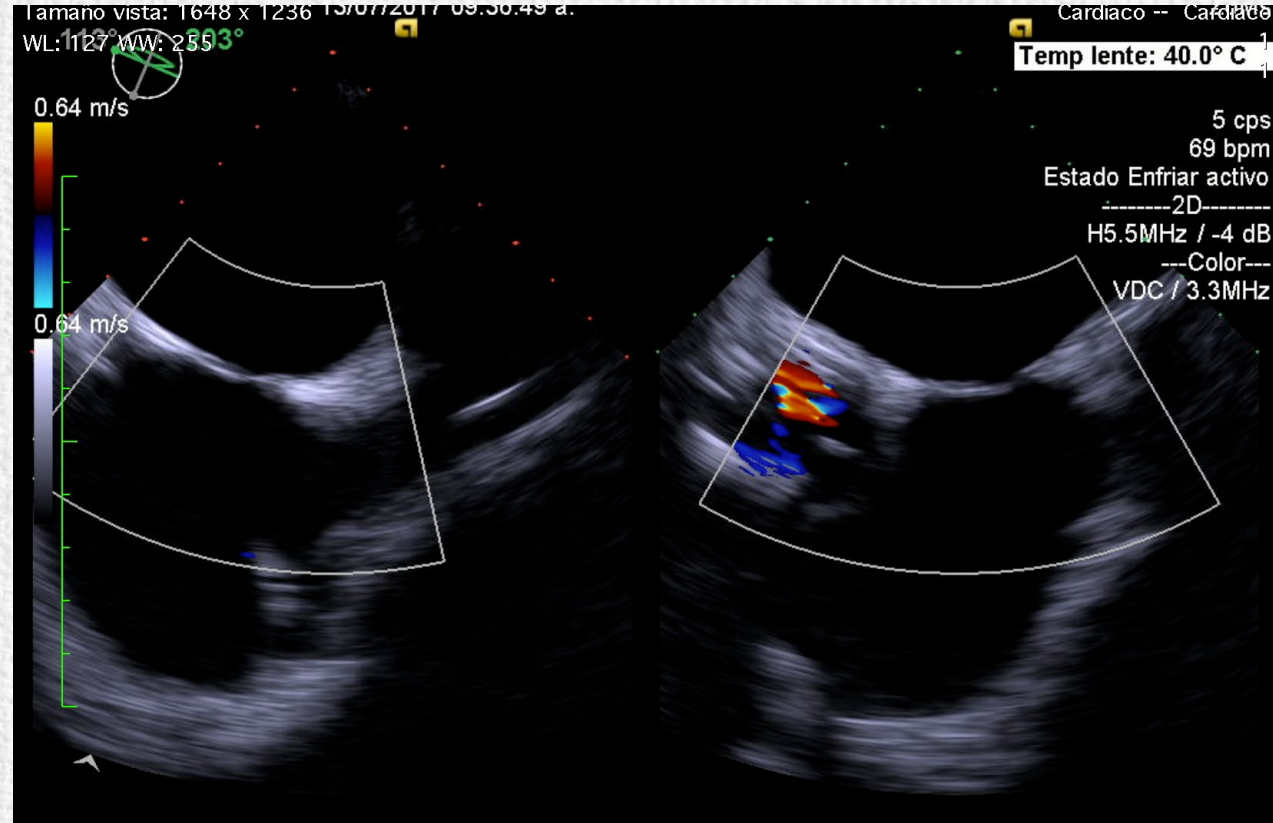
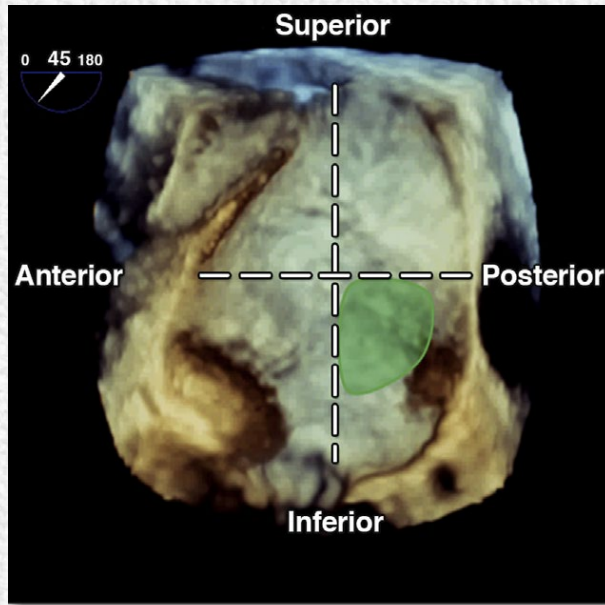


Transeptal Puncture

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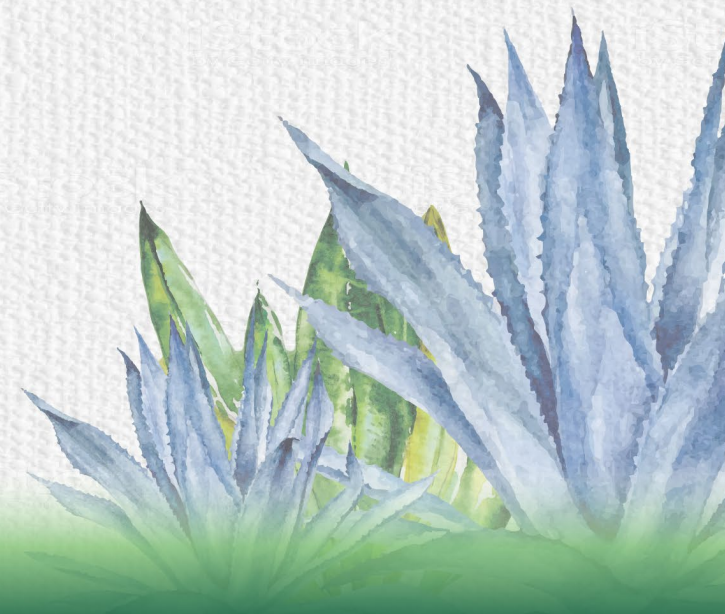


TEE-guided transseptal puncture

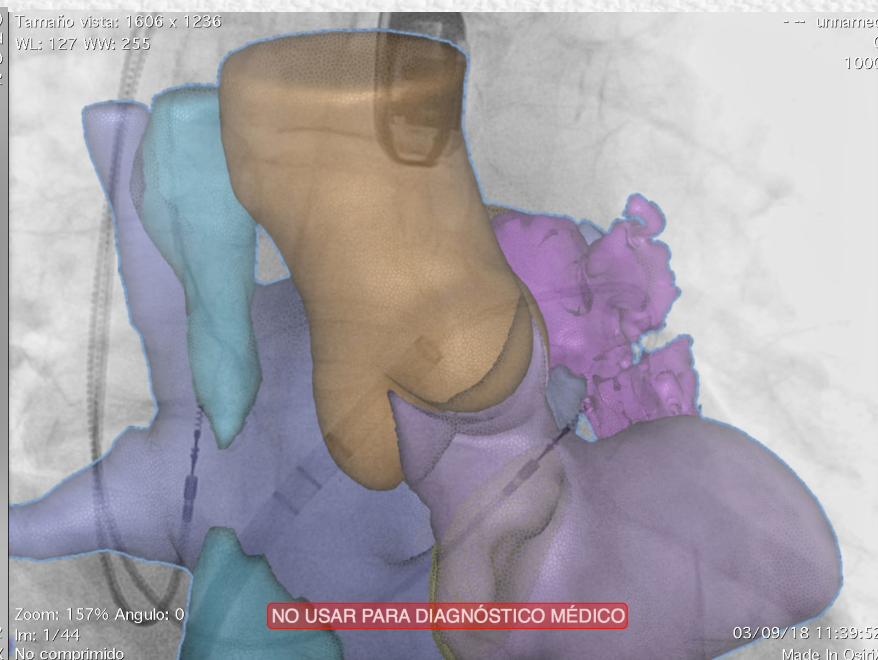
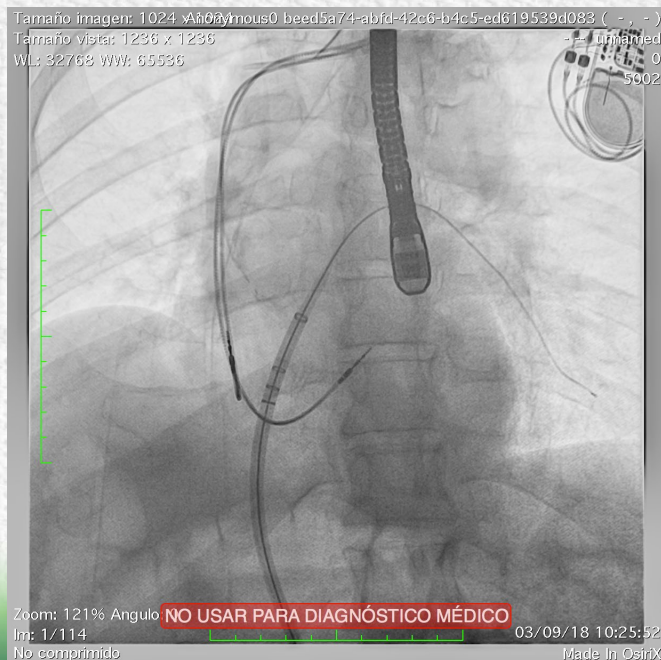


TEE-guided transseptal puncture

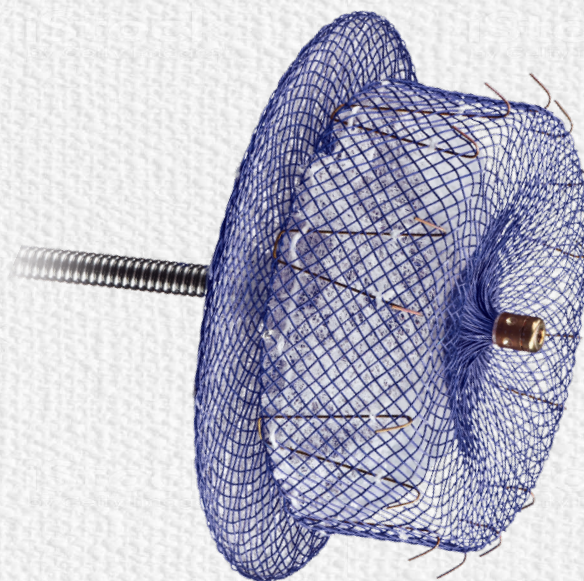
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TEE-guided transseptal puncture



LAAO





Primary Outcomes of the Amplatzer™ Amulet™ IDE Randomized Controlled Trial

Dhanunjaya Lakkireddy, MD - David Thaler, MD, PhD - Christopher Ellis, MD - Vijendra Swarup, MD
Lars Sondergaard, MD - John Carroll, MD - Michael R. Gold, MD, PhD - James Hermiller, MD
Hans-Christoph Diener, MD, PhD - Boris Schmidt, MD - Lee MacDonald, MD - Moussa Mansour, MD
Brijeshwar Maini, MD - Stephan Windecker, MD

on behalf of the Amulet IDE investigators

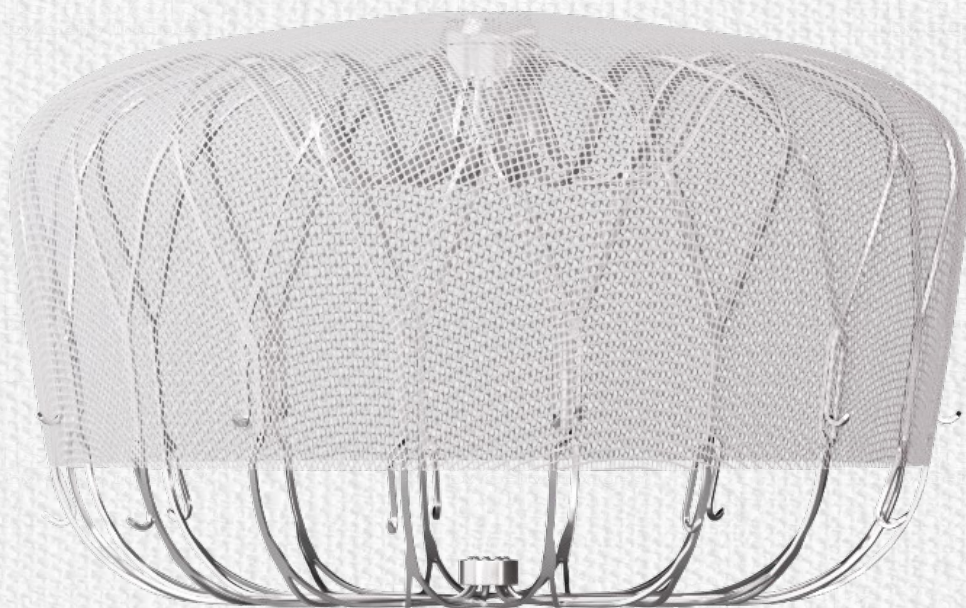
ESC CONGRESS 2021
THE DIGITAL EXPERIENCE

FDA APPROVED AUGUST 14, 2021



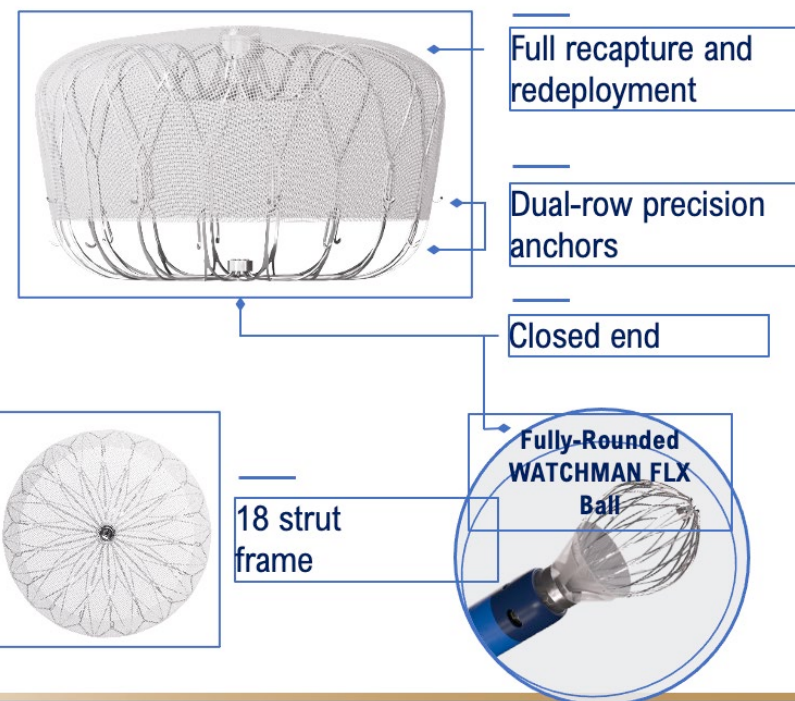
ESC CONGRESS 2021
THE DIGITAL EXPERIENCE

AMPLATZER™ Amulet™



WATCHMANFLX™
LEFT ATRIAL APPENDAGE CLOSURE DEVICE

WATCHMANFLX™



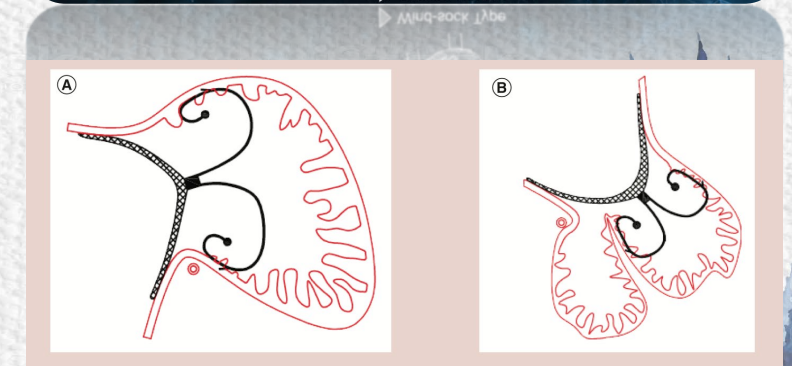


LAmBRE

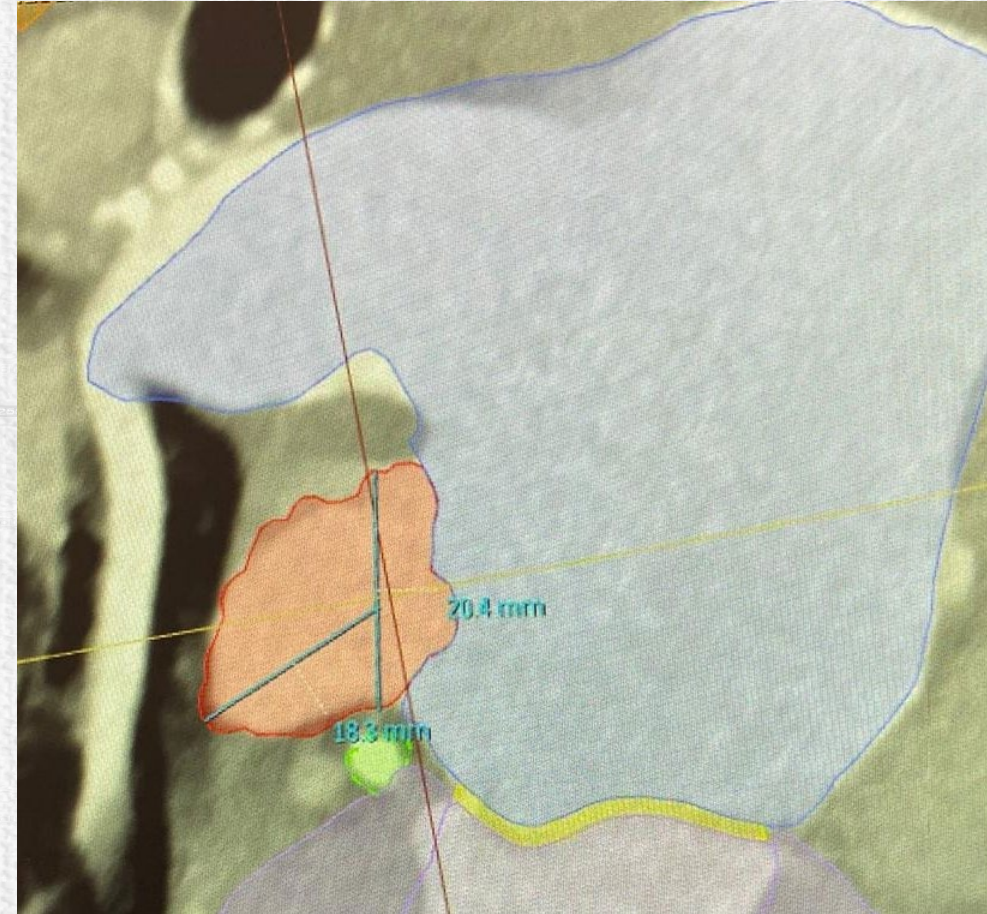
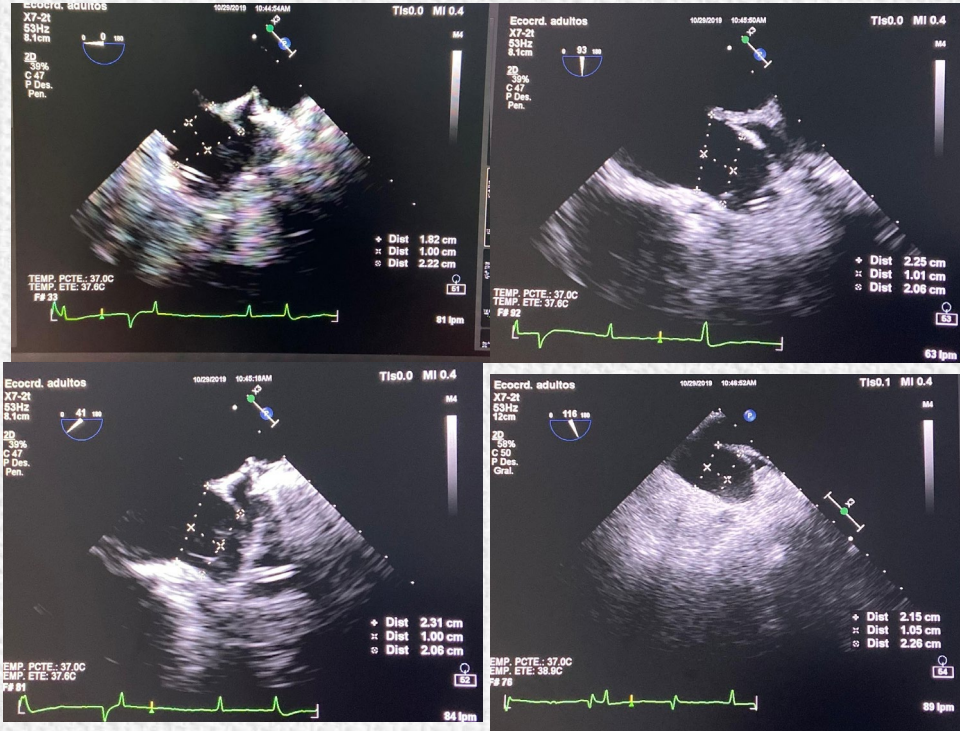
Device
DISC-LOBEL

ePTEF
Titanium/Nitinol Disc

2016 CE Mark



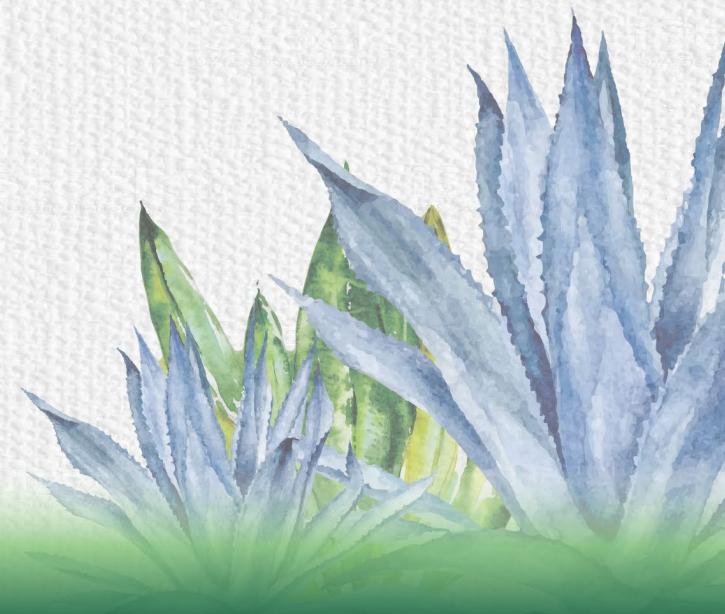
Step-by-Step



Step-by-Step

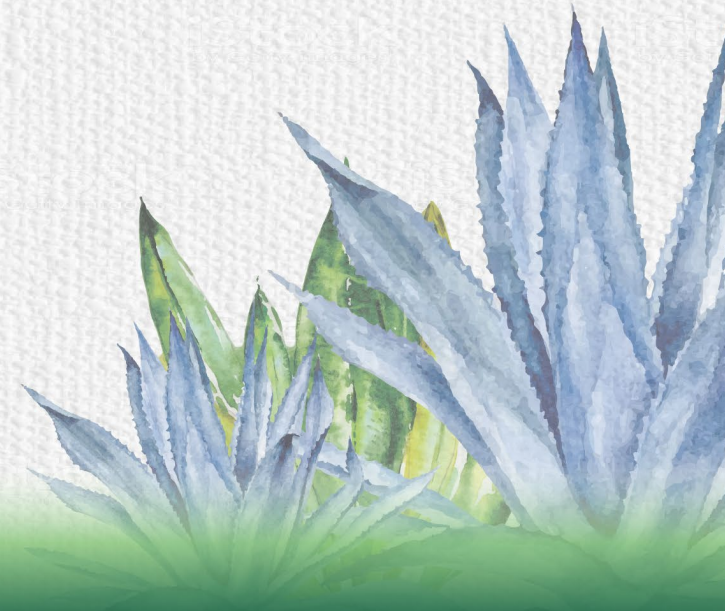
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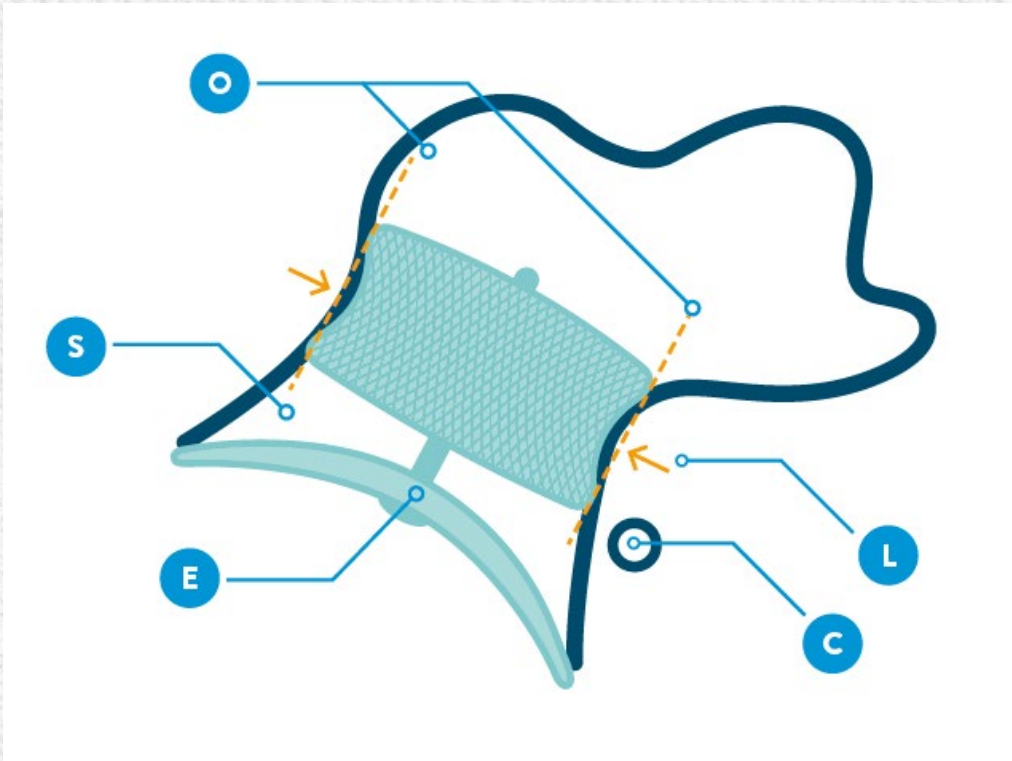


Step-by-Step

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Step-by-Step



C

Cx lobe at least 2/3 distal.

L

Lobe compression

O

Orientation of lobe in line with axis of the LAA neck

S

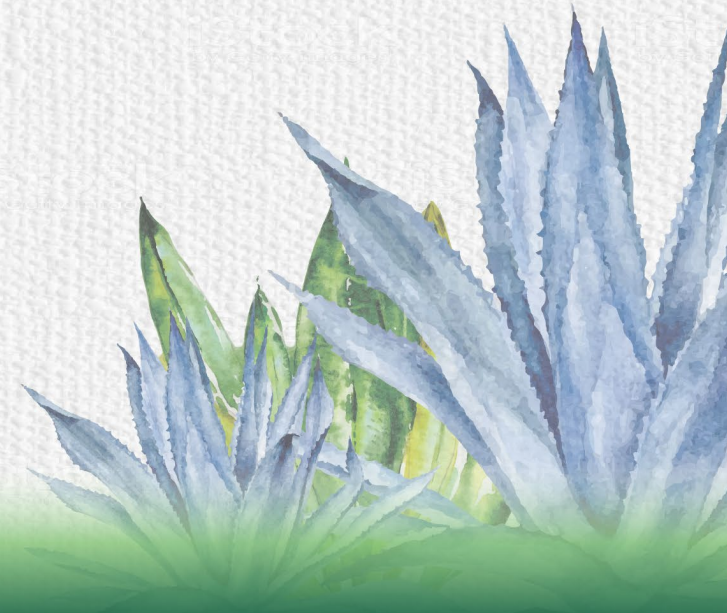
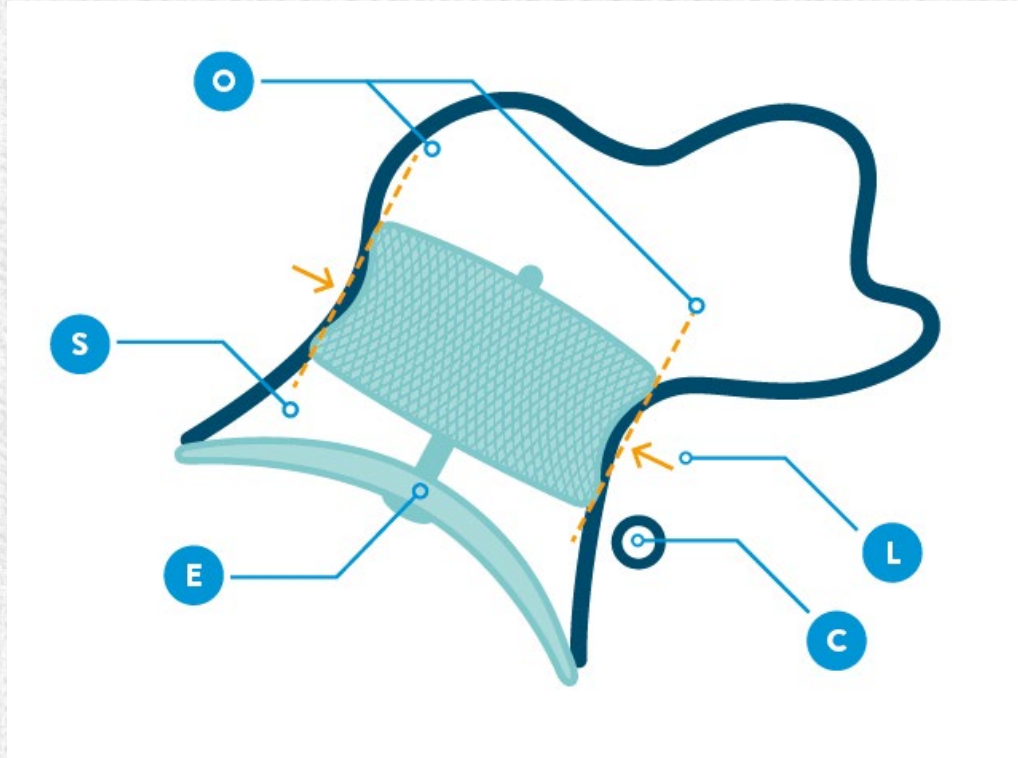
Separation between the device lobe and disc

E

Elliptical (concave disc)

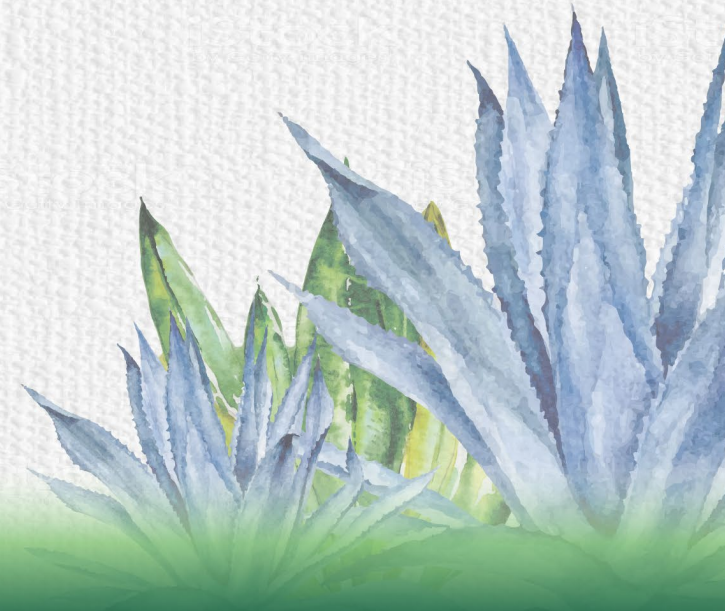


Step-by-Step



Step-by-Step

Final Control



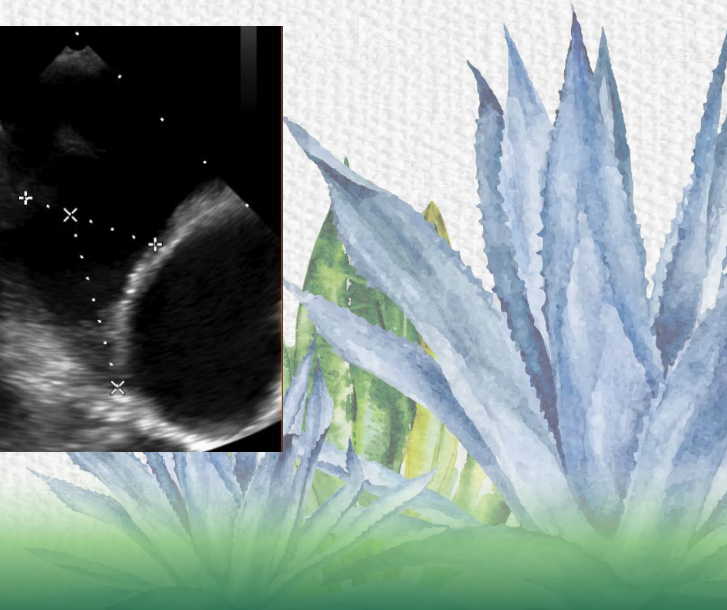
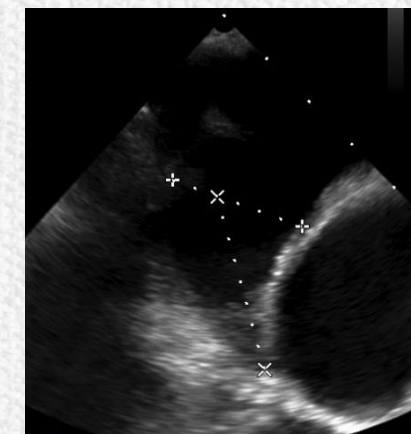
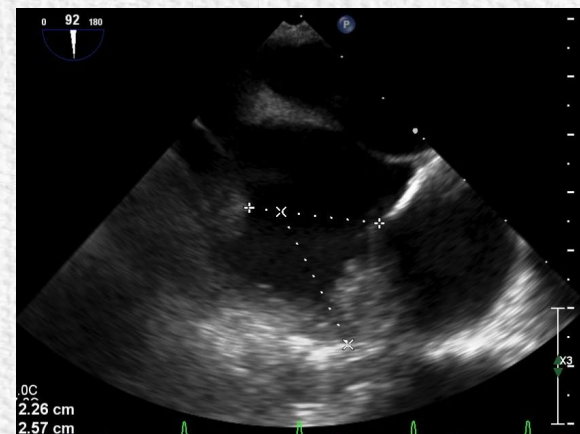
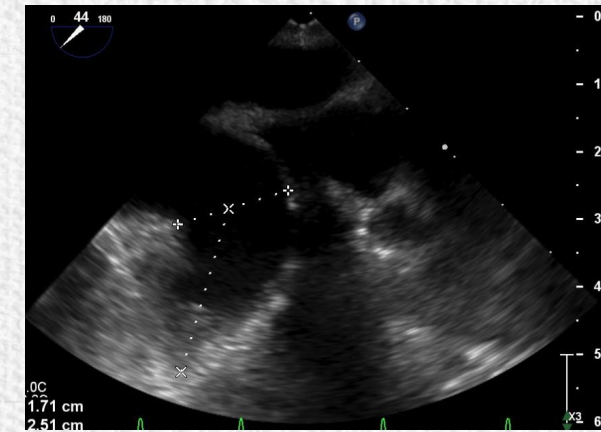
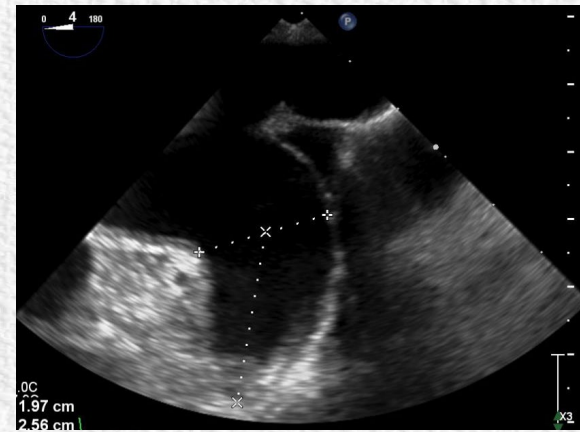
Step-by-Step

LAA Diameter (mm)

0deg	45deg	90deg	135deg
19.7	17.1	22.6	22.8

LAA Length (mm)

0deg	45deg	90deg	135deg
25.6	25.1	25.7	29.6

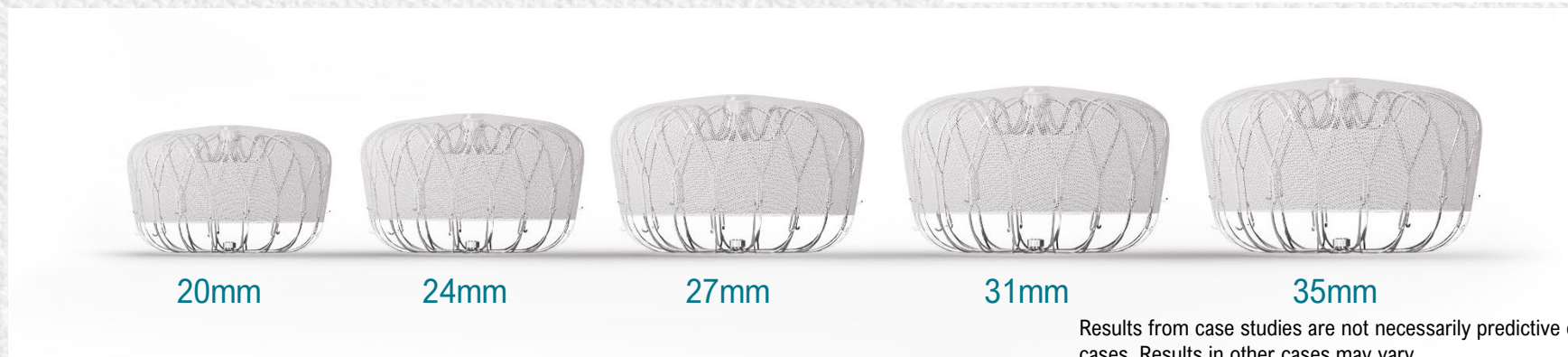


Step-by-Step

LAA Diameter (mm)				LAA Length (mm)			
0deg	45deg	90deg	135deg	0deg	45deg	90deg	135deg
19.7	17.1	22.6	22.8	25.6	25.1	25.7	29.6

** 45° and 135° typically most revealing*

Max Diameter Range (mm)	Implant Length at (10% - 30%)	Device Size
14.0 - 18.0	14-18	20
16.8 - 21.6	14-19	24
18.9 - 24.3	15-20	27
21.7 - 27.9	16-23	31
24.5 - 31.5	18-26	35



Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

Step-by-Step

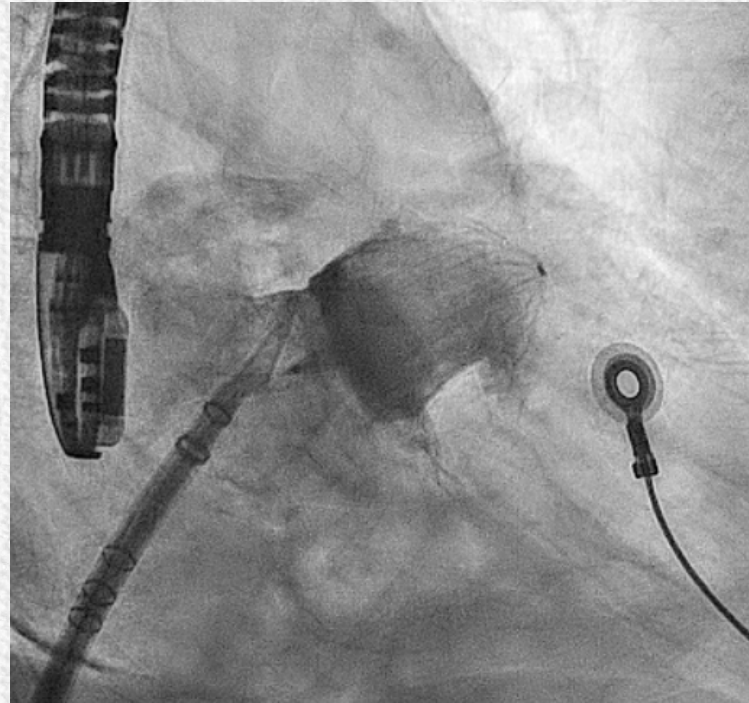


OAD 20°
CAUDO 20°

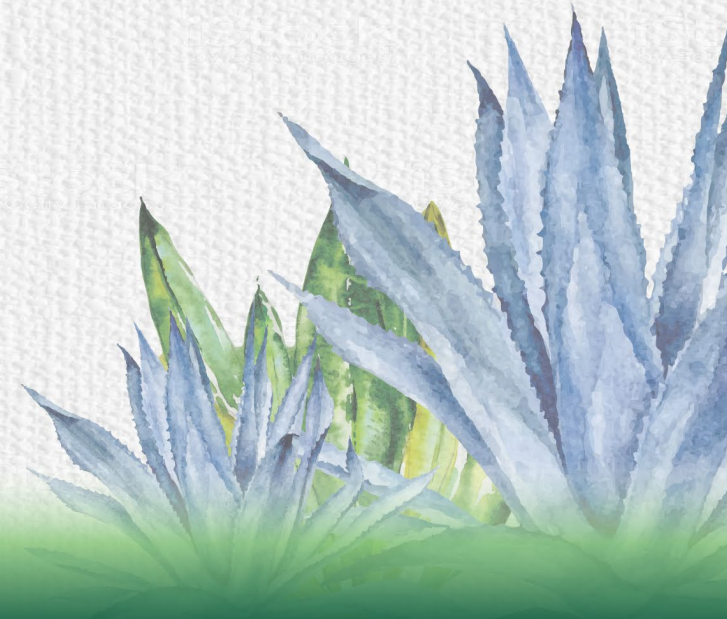


Step-by-Step

Combination Deployment



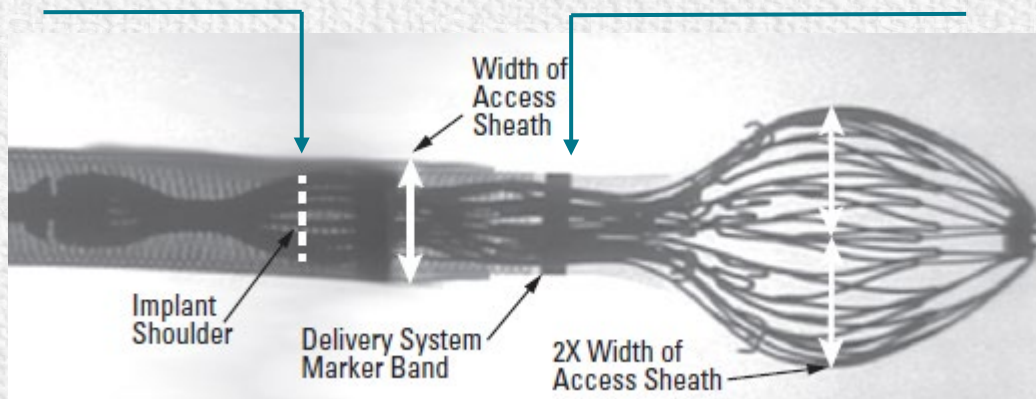
1st Release



Step-by-Step

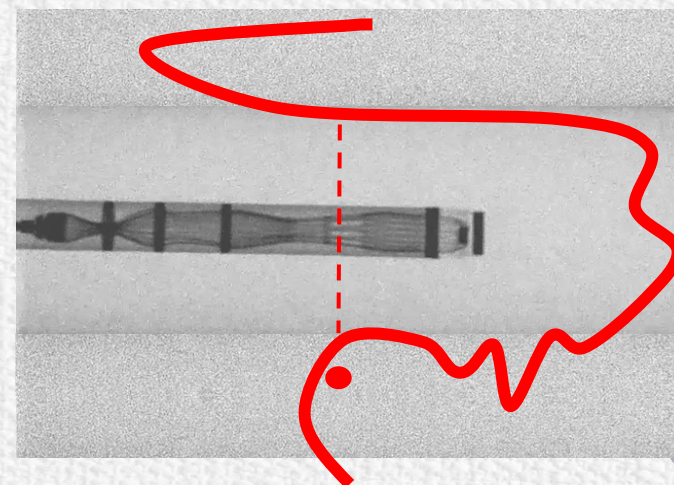
UNSHEATH METHOD

Align Implant Shoulder
at Ostium



ADVANCEMENT METHOD

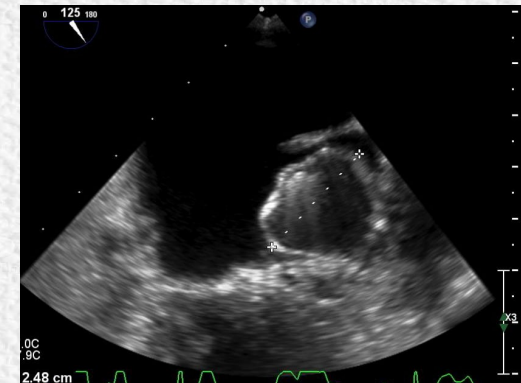
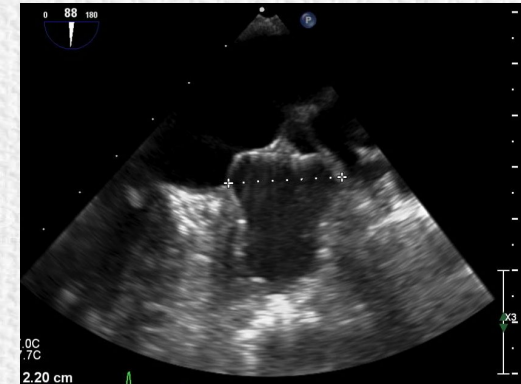
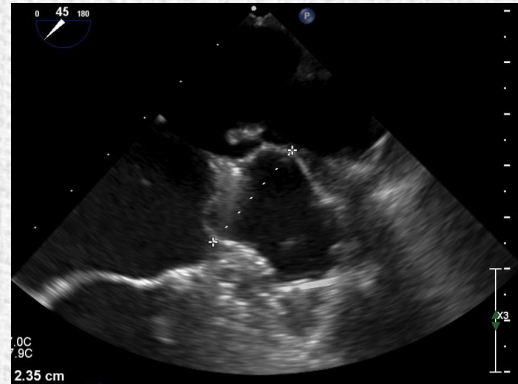
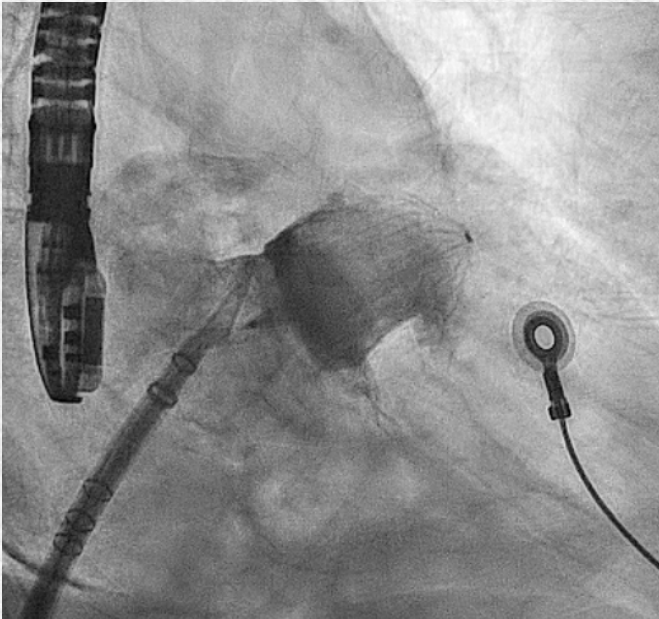
Align Delivery System Marker Band
at Ostium



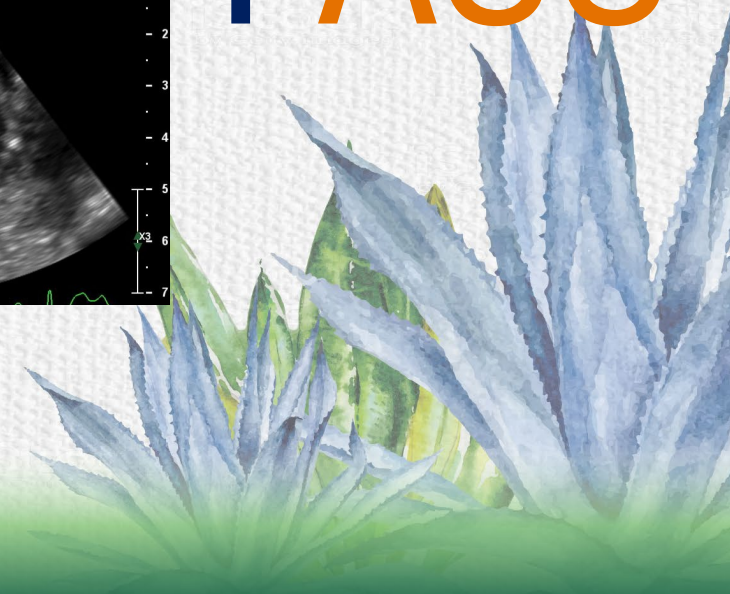
SMOOTH DISTAL AND PROXIMAL
POSITIONING + APPROACH FOR SHALLOW
APPENDAGES



Step-by-Step

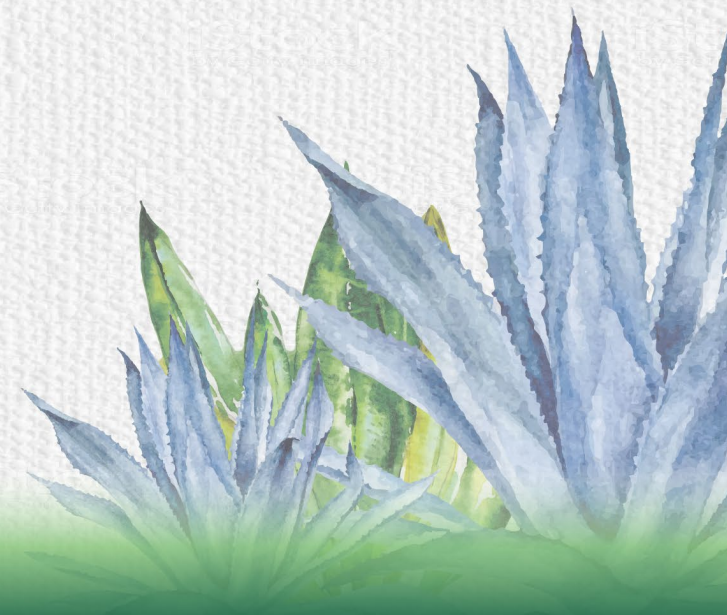


PASS

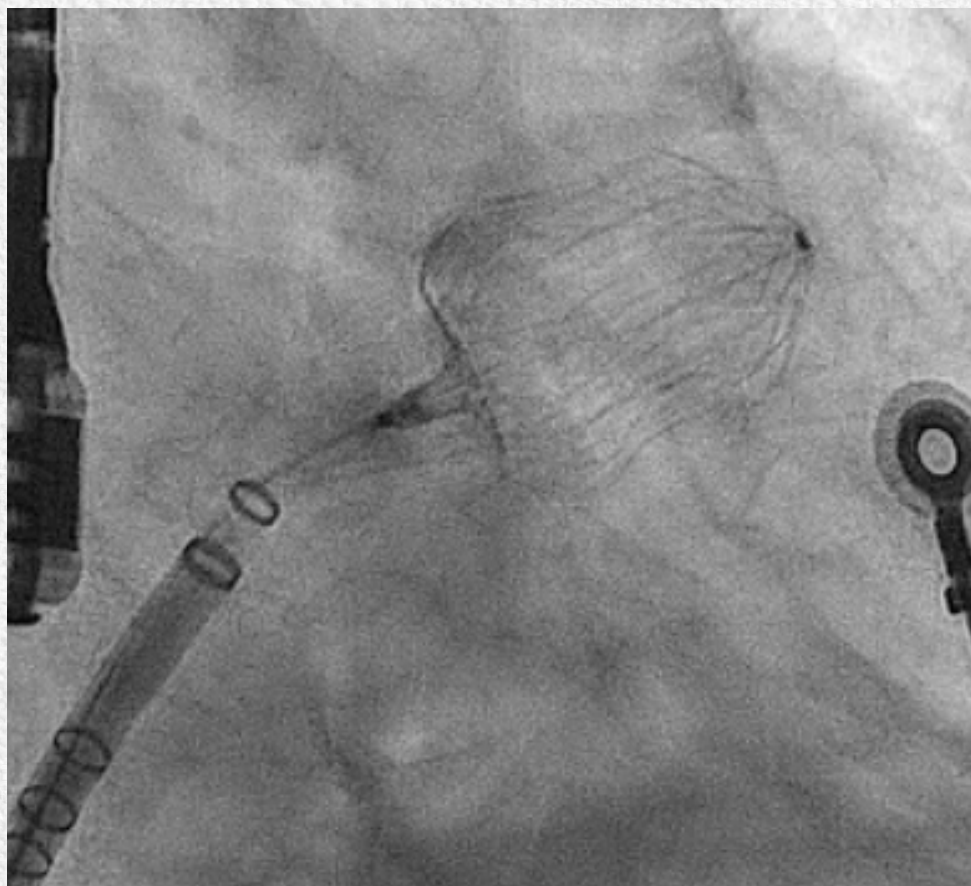


Step-by-Step

PASS



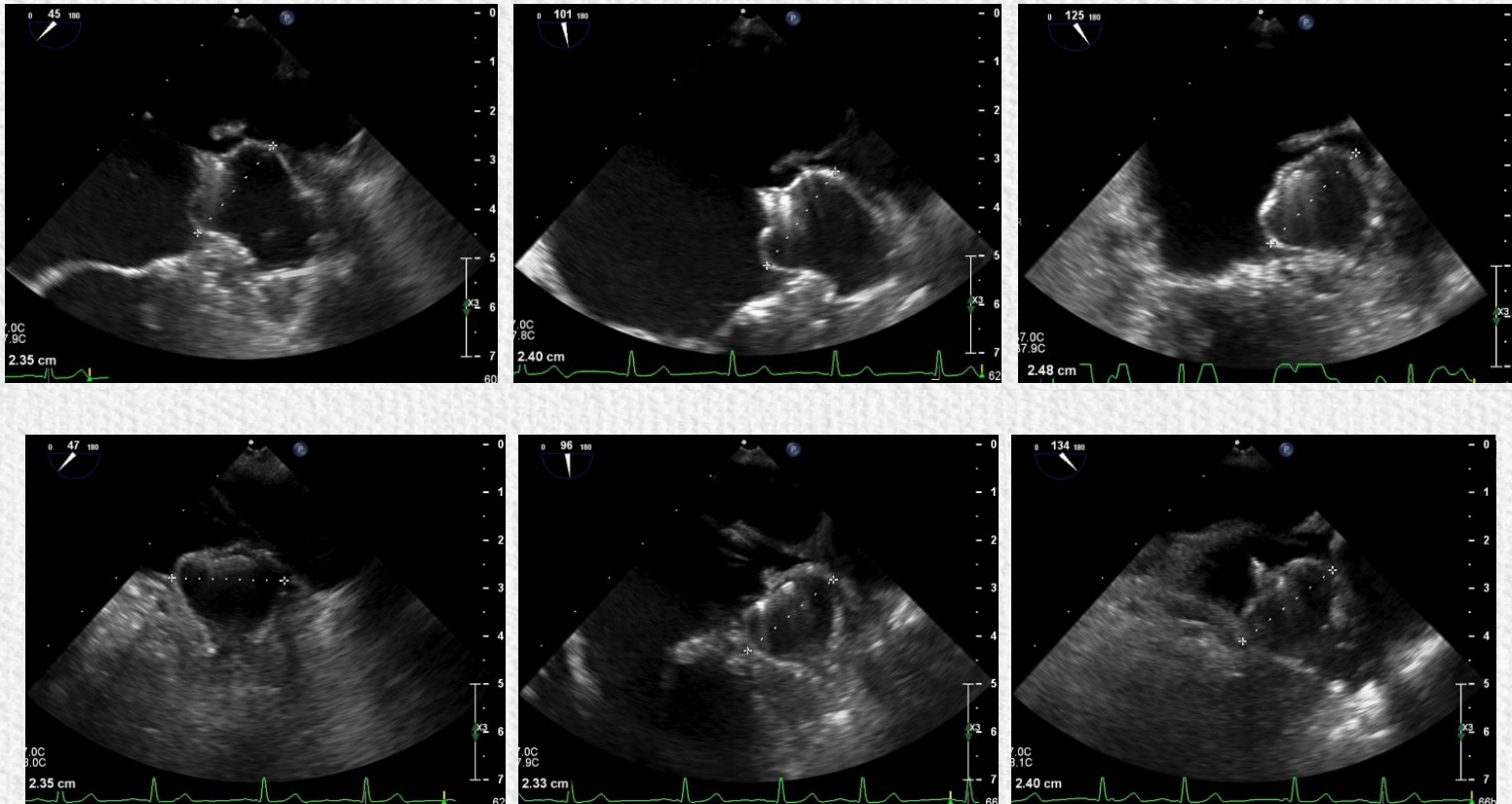
Step-by-Step



PASS



Step-by-Step



PASS

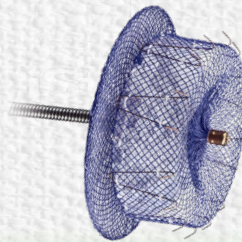


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Watchman FLX



Amulet



L'Ambre





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