The Watchman FLX advanced technology and step by step

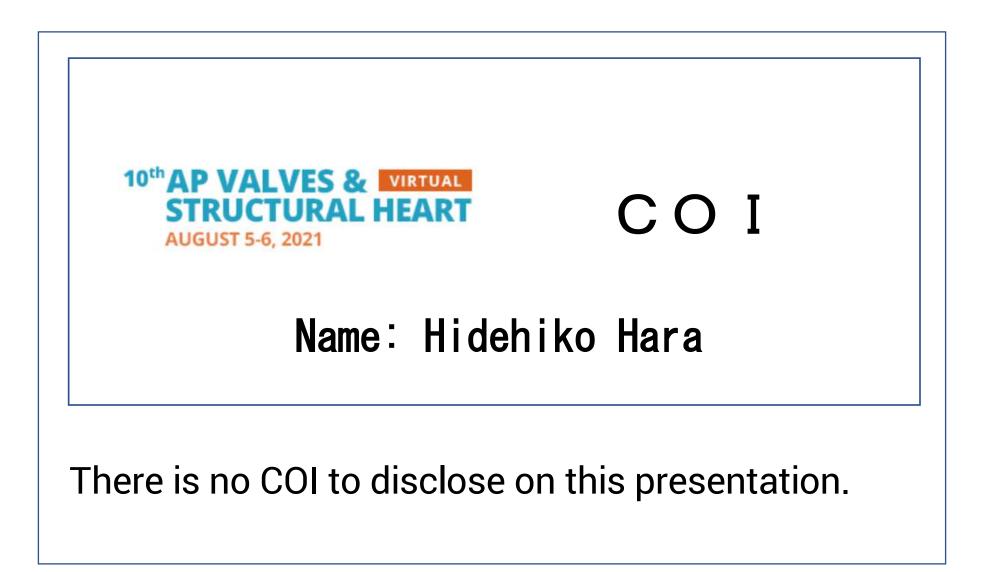


HIDEHIKO HARA MD, PhD

Toho University Ohashi Medical center, Tokyo, JAPAN

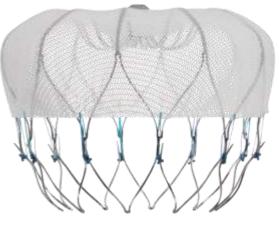








Points of design change on WATCHMAN FLX





WATCHMAN[™]

WATCHMAN FLX

WATCHMAN FLX Design Change Goal :

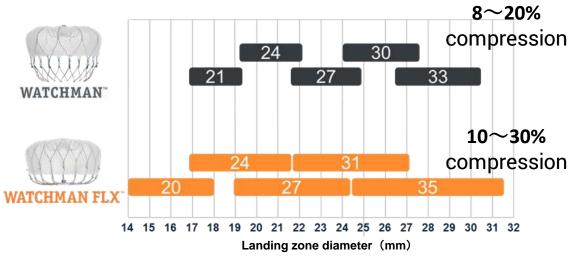
- Improved safety
- Improved procedure accuracy
- Expanded treatable left atrial appendage indications



Points of design change from WATCHMAN to WATCHMAN FLX



1. Distal fluorochip with visible distal end



3. Wide LAA landing zone diameter of 14-31.5 mm

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2. Can be fully re-capped, partially re-capped and

advanced within the LAA

Maximum diameter: length ratio 1: 1/2



4. Shortening device length

Points of design change from WATCHMAN to WATCHMAN FLX

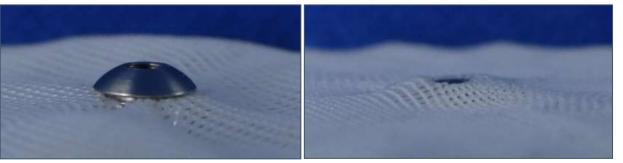


5. 2 rows / 18 "J" type anchors (currently 10)

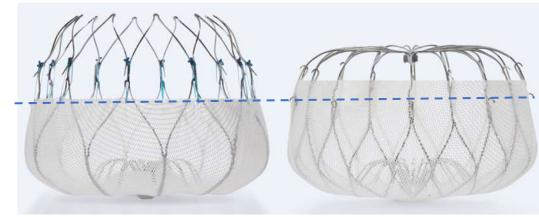




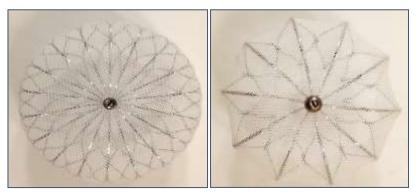
"Straight line" anchor (current)



WATCHMAN WATCHMAN FLX 7. 70% reduction in screw (metal part) exposure



WATCHMAN 27mm WATCHMAN FLX 27mm 6. PET filter length



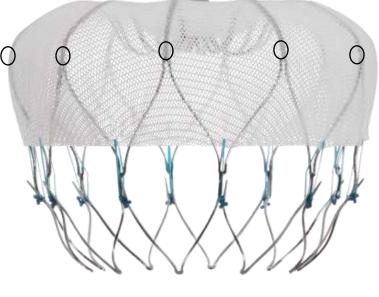
WATCHMAN FLX WATCHMAN 8. 18 strut frames (currently 10)



WATCHMAN FLX promotes closure and endothelialization

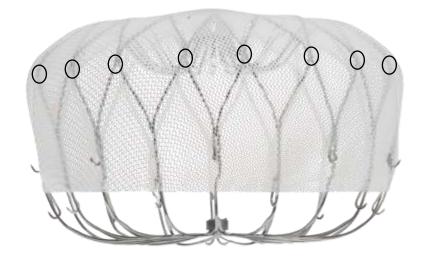
80% increase in contact points at LAA entrance to improve left atrial appendage closure

10 strut frames



WATCHMANTM

18 strut frames



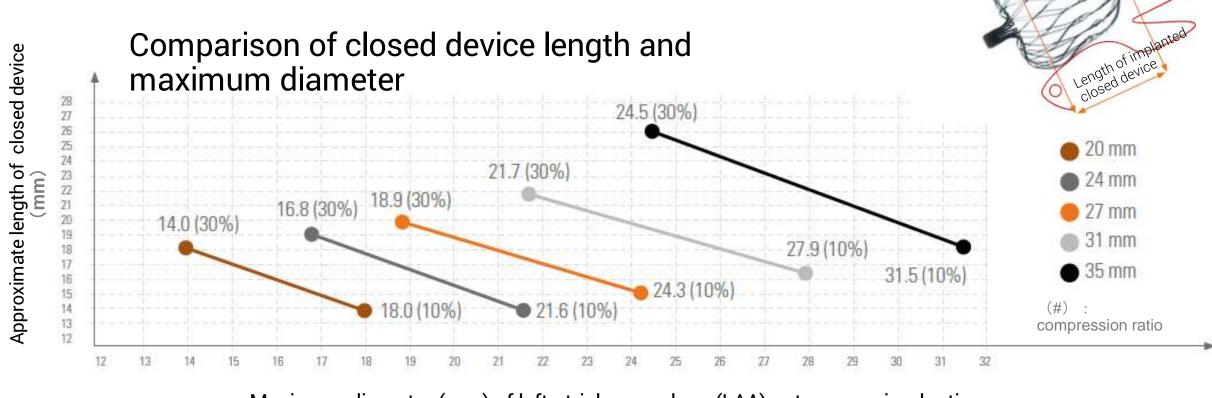
WATCHMAN FLX







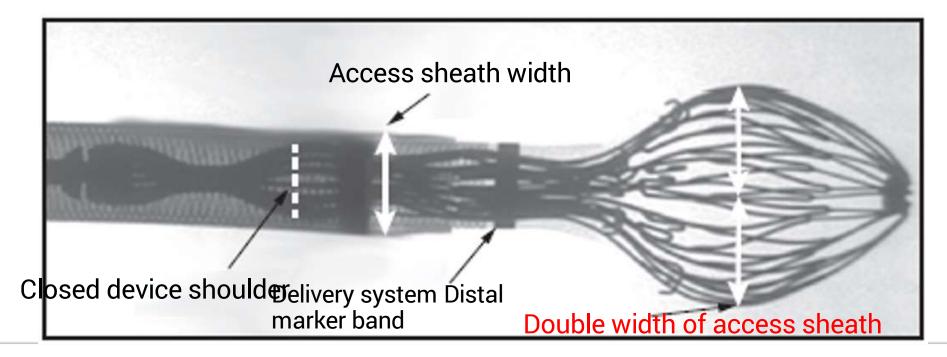
WATCHMAN FLX size selection



Maximum diameter (mm) of left atrial appendage (LAA) entrance or implanting closed device



FLX ball creation





Two types of deployment techniques

When the FLX Ball *doubles* the access sheath diameter, you can use either the Unsheathe method, Advance method, or a combination of the two methods.



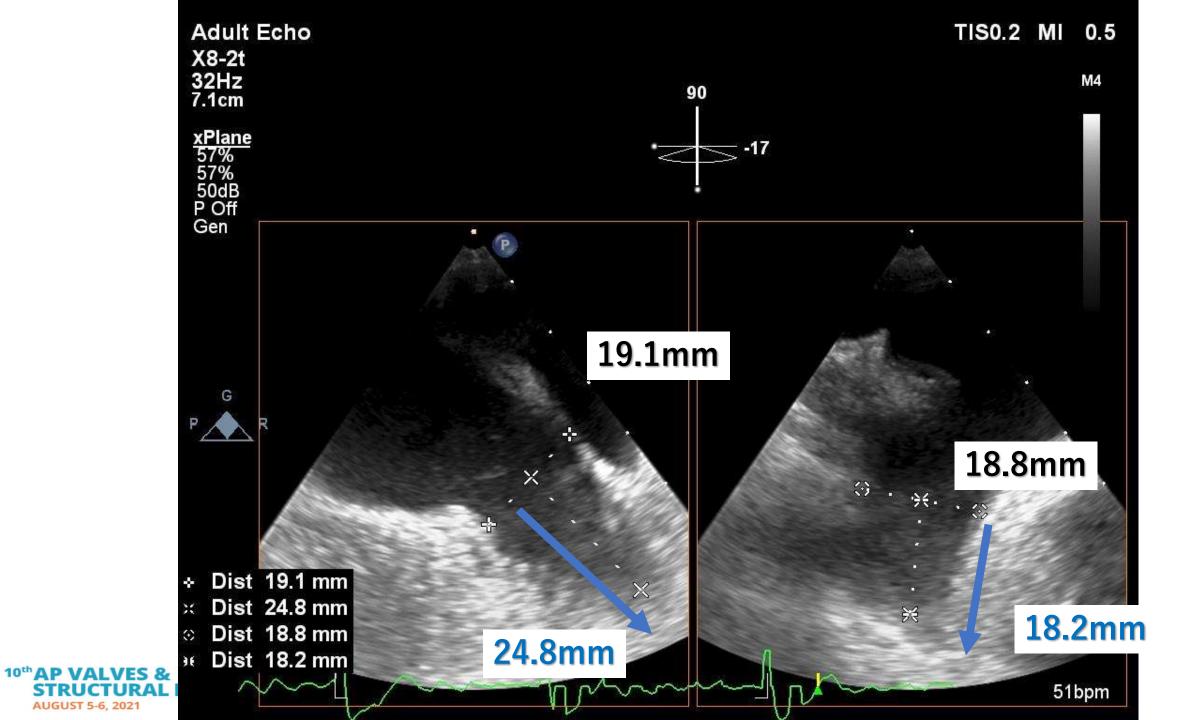
Advance method

combination method

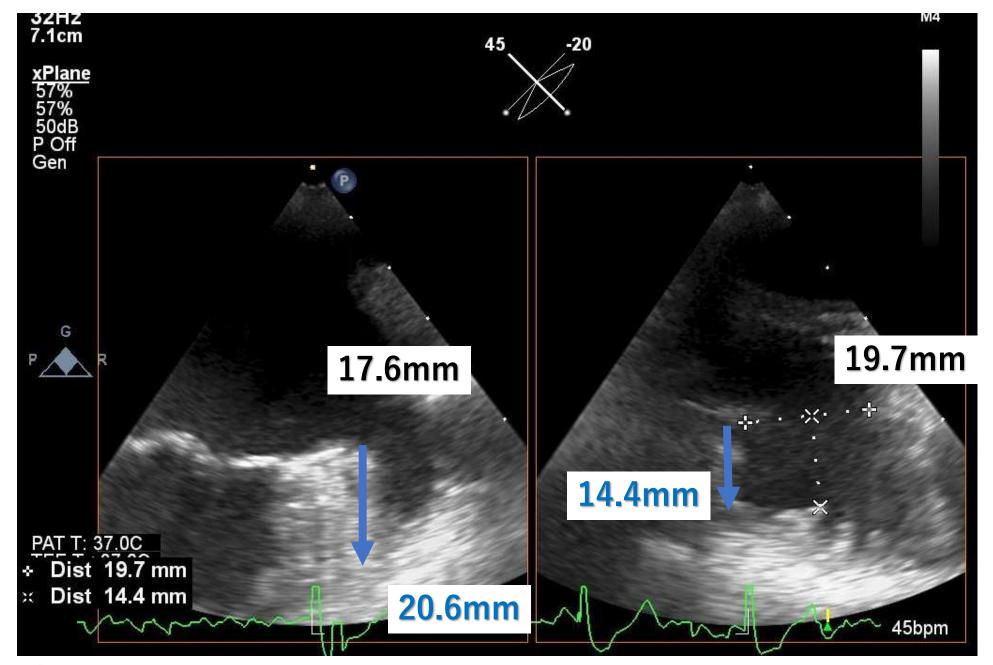


- 80s gentleman
- History of DM, HT, CKD, and long standing A fib
- 1st stroke in December 2020
- 2nd stroke on Edoxaban in April 2021
- CHA2DS2-VASc: 6, HASBLED: 4

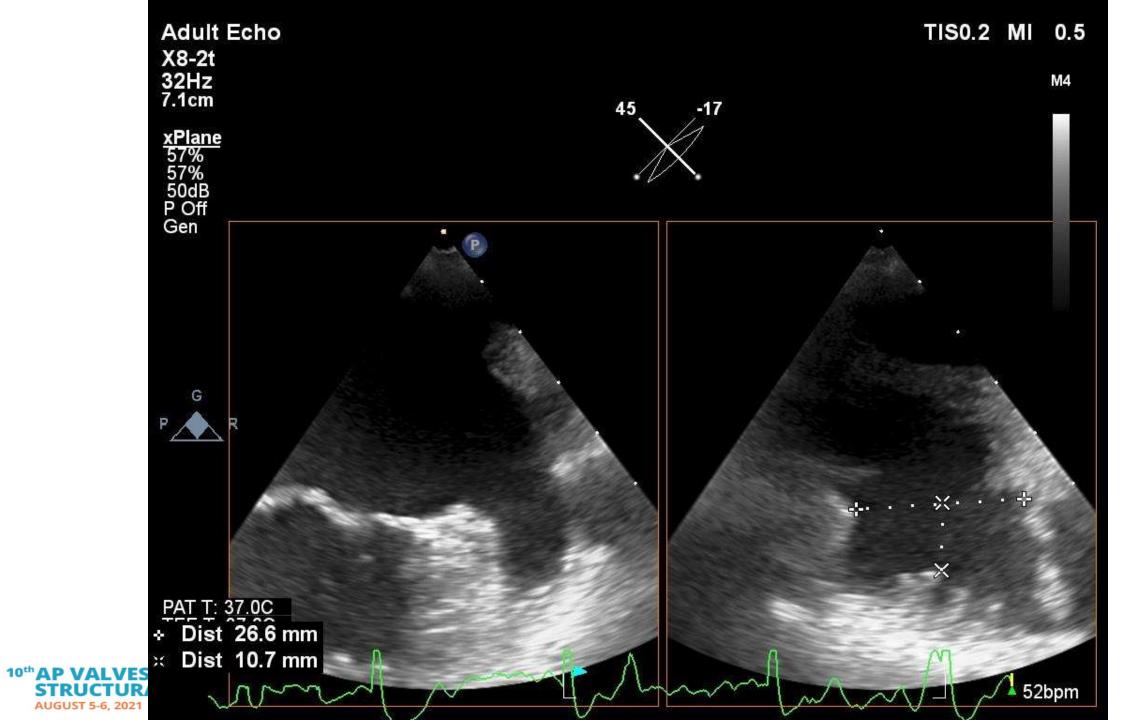




STR

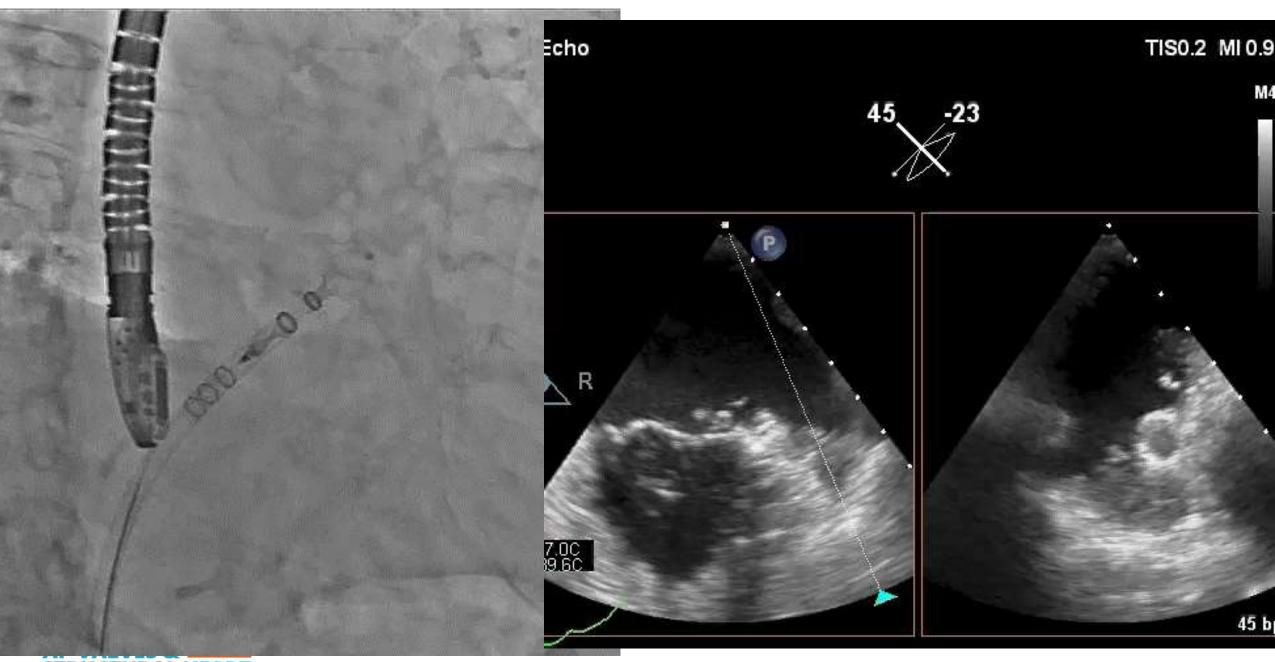


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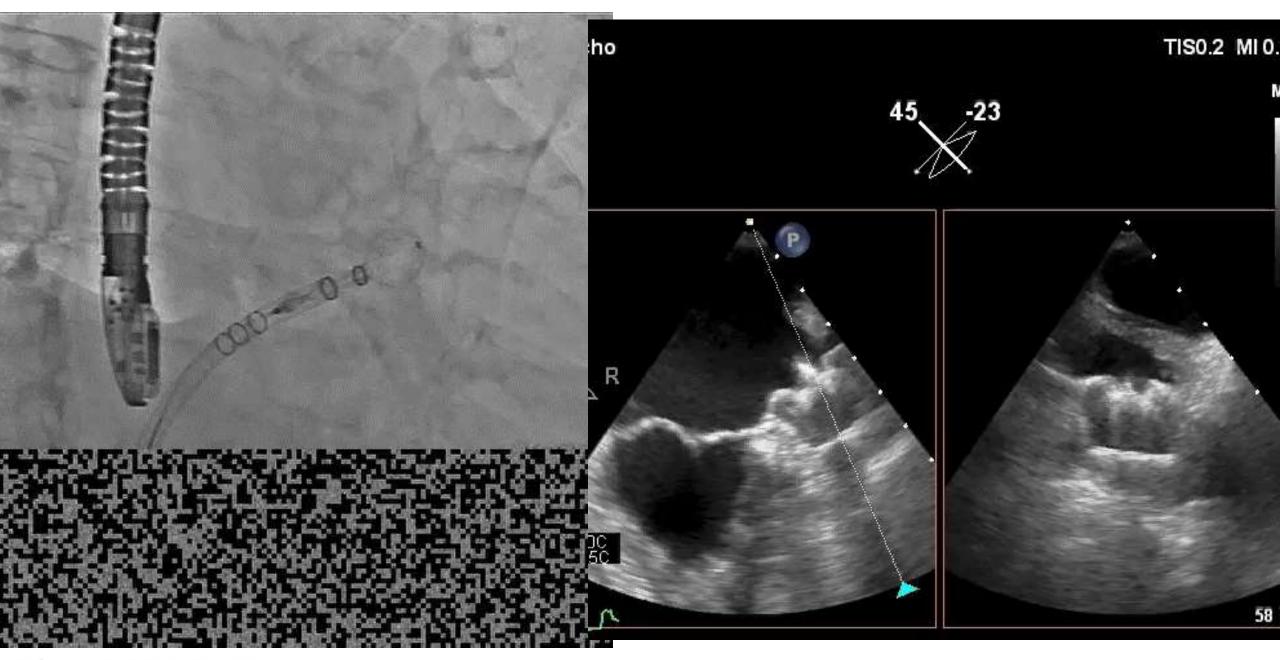




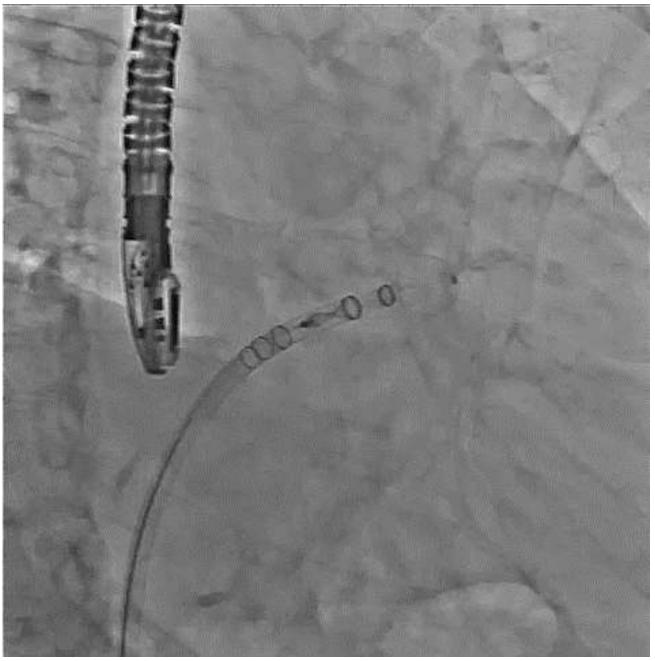


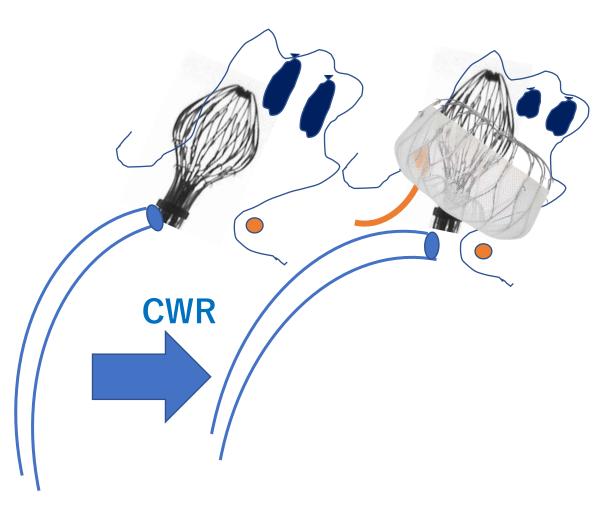


STRUCTURAL HEART AUGUST 5-6, 2021

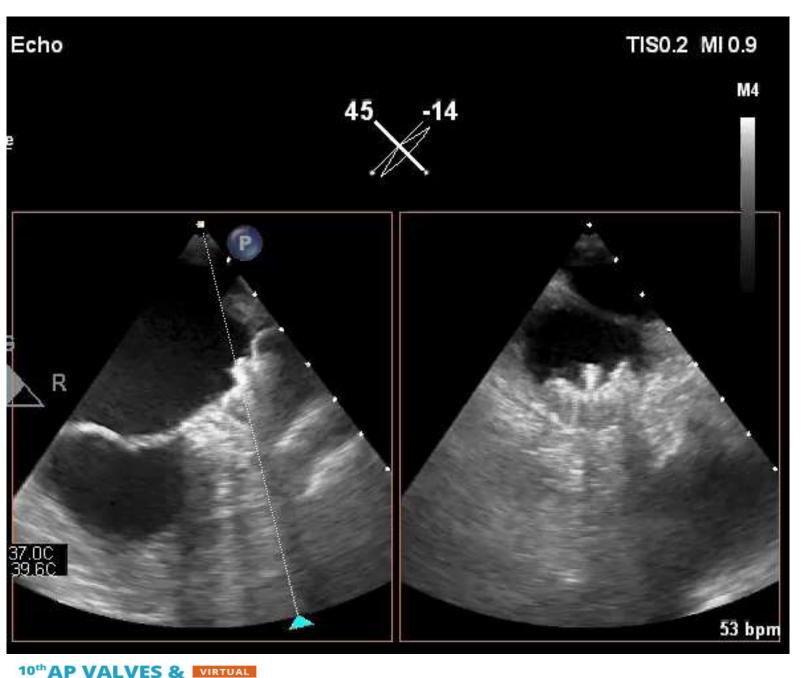


10th AP VALVES & VIRTUAL STRUCTURAL HEART AUGUST 5-6, 2021









AUGUST 5-6, 2021

- Advancing method
- Combination methods
- Jackknife-like movement
- ≥ 10 partial recap could be done

Take home messages

- ✓ We can perform controlled deployment
- ✓ Complete recap and reuse
- ✓ Larger ranges of LAA can be closed
- ✓ Better seal & healing would be expected

관심을 가져주셔서 감사합니다.

