

Fracturable or not: that's the question



LI Jornadas SOLACI
16° Región Cono Sur

7, 8 y 9 de mayo 2025
Montevideo, URUGUAY

MÁRCIO MONTENEGRO

COORDENADOR DO CENTRO DE TRATAMENTO DE VALVA

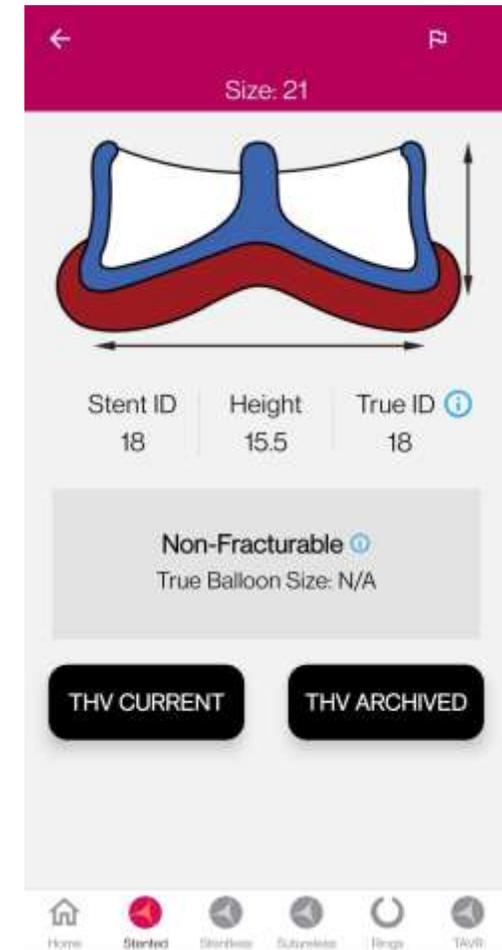
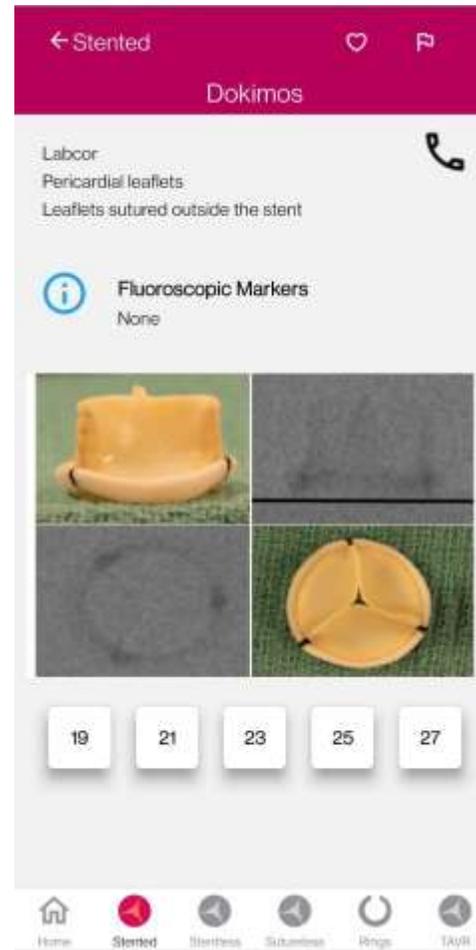
**INSTITUTO ESTADUAL DE CARDIOLOGIA ALOYSIO DE
CASTRO**

CLINICAL CASE

- FEMALE 78y/o
- DYSPNEA AND SYNCOPÉ
- HYPERTENSION AND DIABETES TYPE II
- AORTIC REPLACEMENT DOKIMUS 21 13 YEARS AGO.
- ECHO: EF:65% LA: 28,8cc/m LVED:4,8 LVES:3,1
SEVERE STENOSIS BIOPROSTHESIS AORTIC DOKIMUS 21
Vmax: 4,0m/s Mean Grad:41mmHg DVI:0,17 AoVA:0,69 i:0,38
STS SCORE: 9 – DENIED BY SURGICAL TEAM

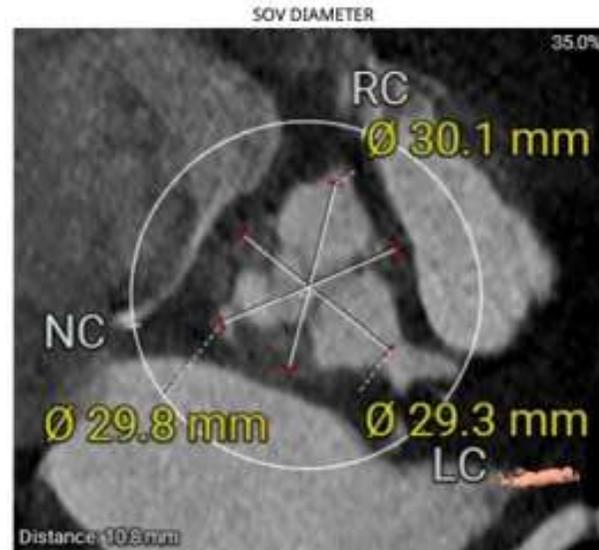
DOKIMUS 21

- NONE FLUOROSCOPIC MARKERS
- LEAFLETS SUTURED OUTSIDE THE STENT
- TRUE ID 18
- NON-FRACTURABLE!!!



REPORT ANALYSIS

- MEAN DIAMETER: 17,7
- CORONARY HEIGHT: 8,4L AND 10,3R
- VTC: 4,8L AND 5,8R
- SINUS DIAMETER: 29,3L AND 30,1R



VIV ADDITIONAL MEASUREMENTS

Valve to Coronary Distance (mm)	4.8	5.8
	To LCA	To RCA
Valve to STJ Distance (mm)	1.6	3.2
	LCC	RCC

ANNULUS

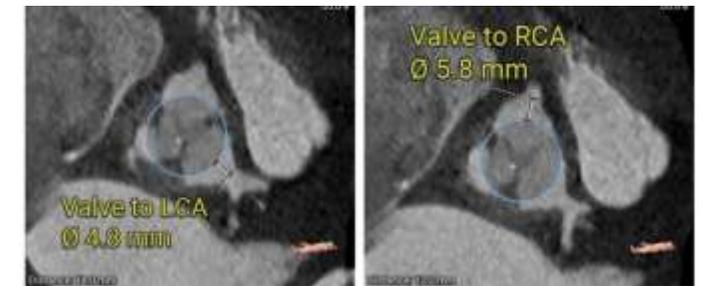
Diameter (mm)	16.4	x	18.9	,	17.7
	Min		Max		Mean
Perimeter (mm)	56.4		Derived Ø (mm)		18.0
Area (mm ²)	246.8		Derived Ø (mm)		17.7

LVOT

Diameter (mm)	22.4	x	30.5	,	26.5
	Min		Max		Mean
Perimeter (mm)	82.3		Derived Ø (mm)		26.2
Area (mm ²)	515.9		Derived Ø (mm)		25.6



Max Ascending Aorta Diameter (mm)	37.1
Sinotubular Junction Diameter (mm)	26.9 x 28.9
	Min Max
Sinus of Valsalva Diameter (mm)	29.3 30.1 29.8
	LCC RCC NCC
Sinus of Valsalva Height (mm)	18.2 17.0 19.1
	LCC RCC NCC
Coronary Ostia Height (mm)	8.4 10.3
	Left Right

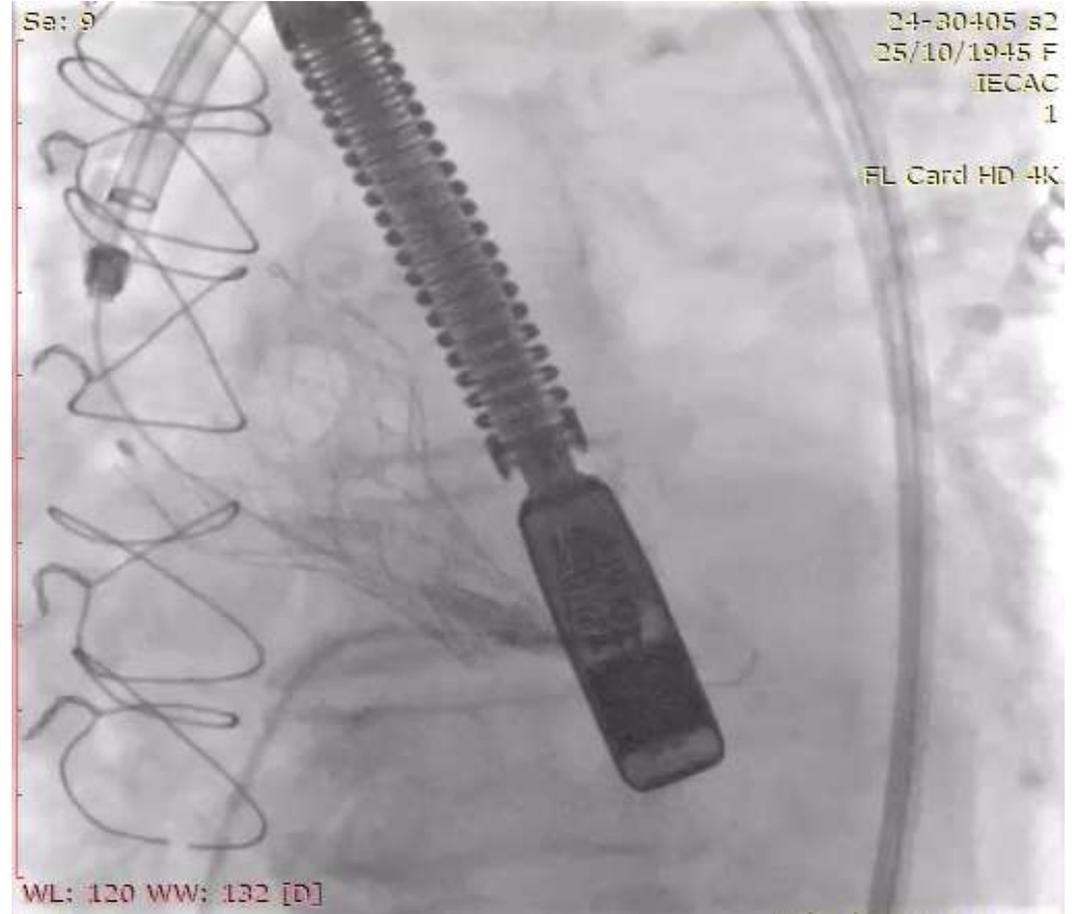
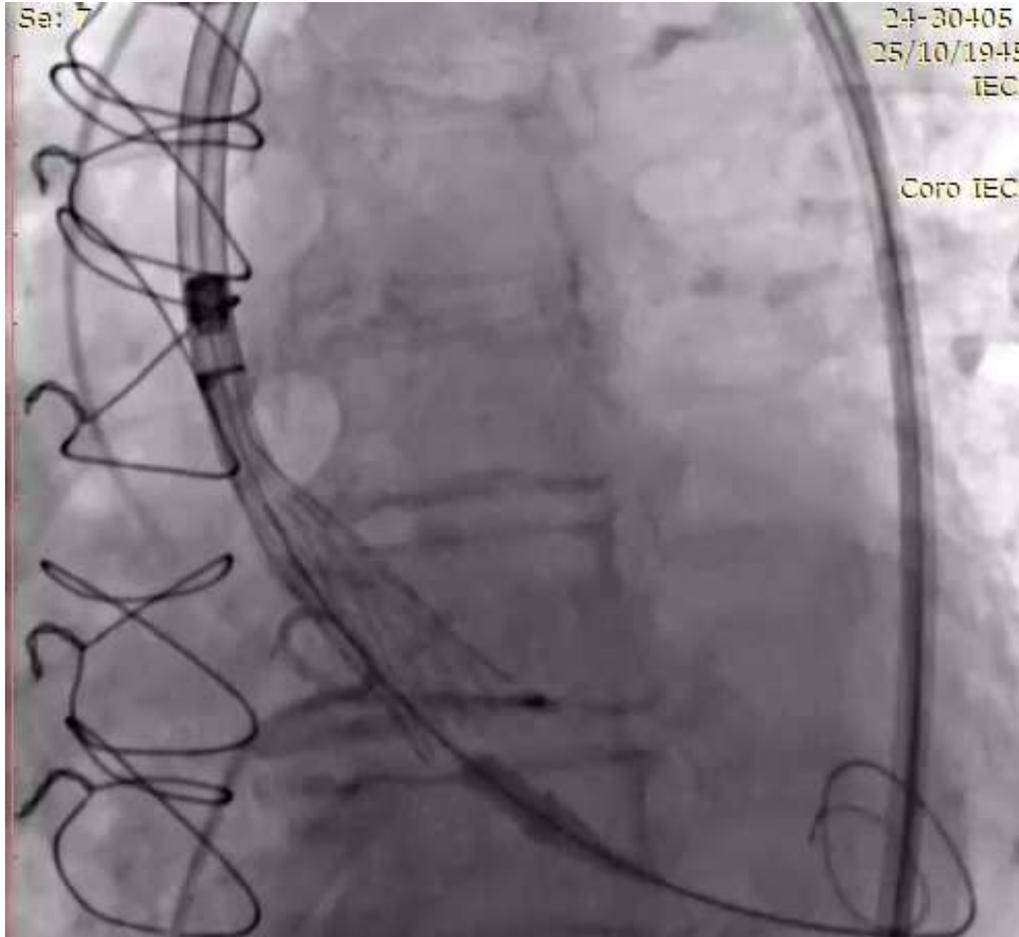


PLANNING

- GENERAL ANESTHESIA AND TEE
- 03 ACCESS – MAIN AT RIGHT AND A/V (PIGTAIL AND PACE) AT LEFT.
- CROSSING PROSTHESIS WITH AL 1 AND POSITIONING CONFIDA WIRE
- IMPLANTING EVOLUT PRO+ 23
- CRACKING OR STRETCHING AORTIC PROSTHESIS ATLAS GOLD 20

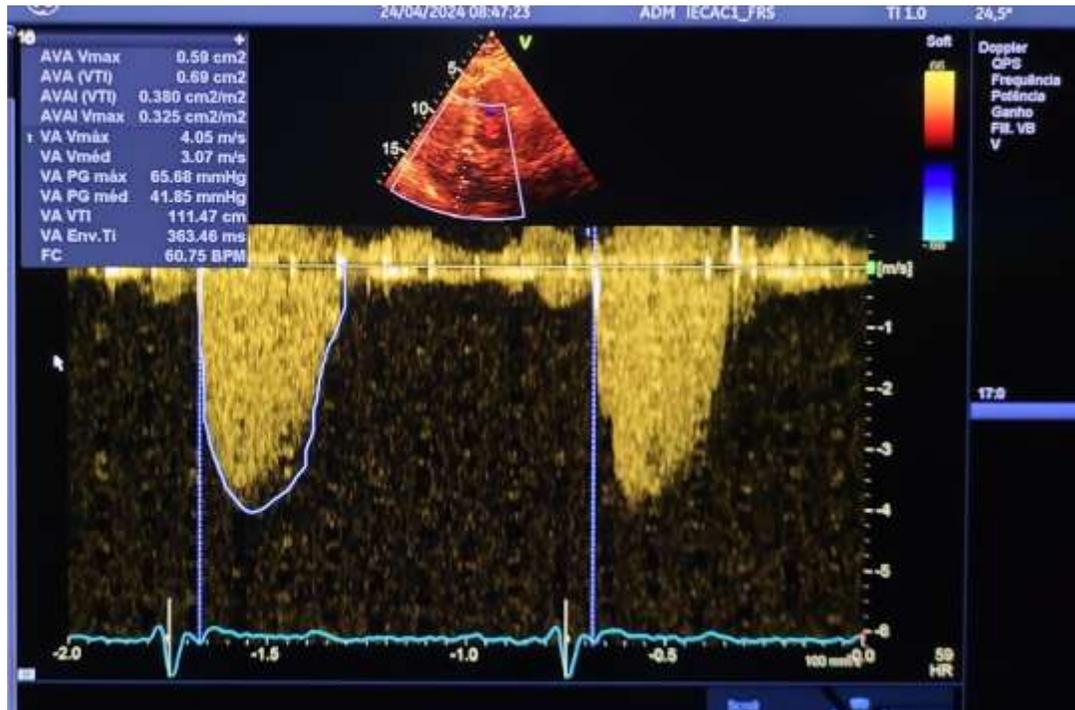
ECHO PRE - FLOATING



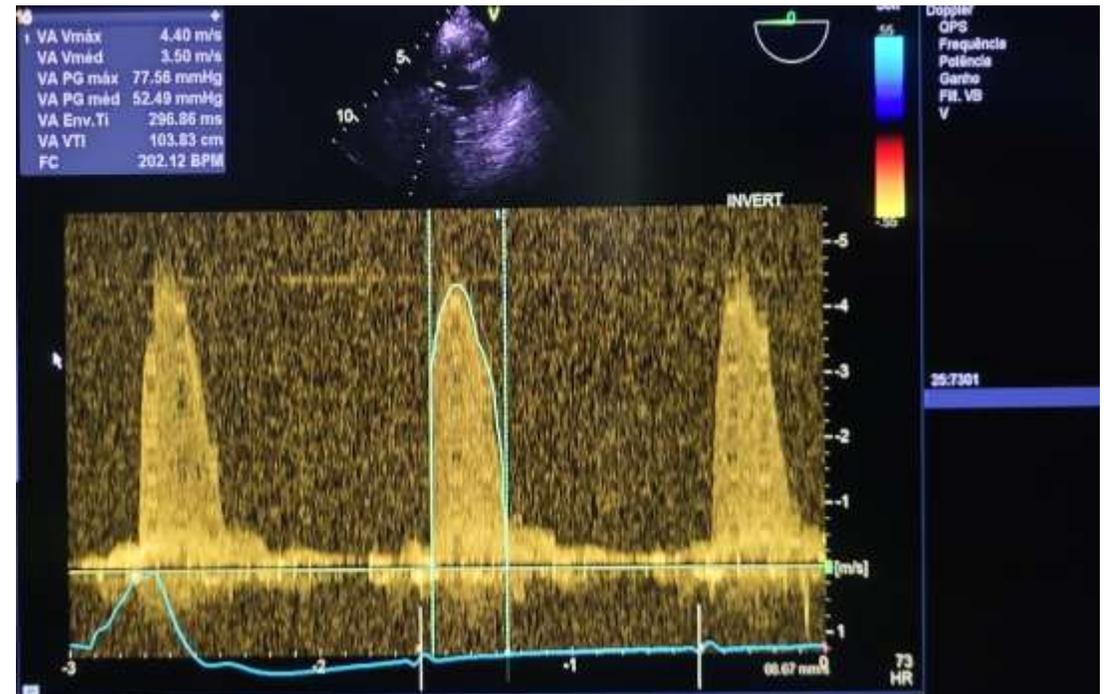


ECHO

MEAN GRAD PRE 41,85mmHg



MEAN GRAD POS 52,49mmHg



ATLAS GOLD 20 BALLOON - CRACKING



Sa: 15

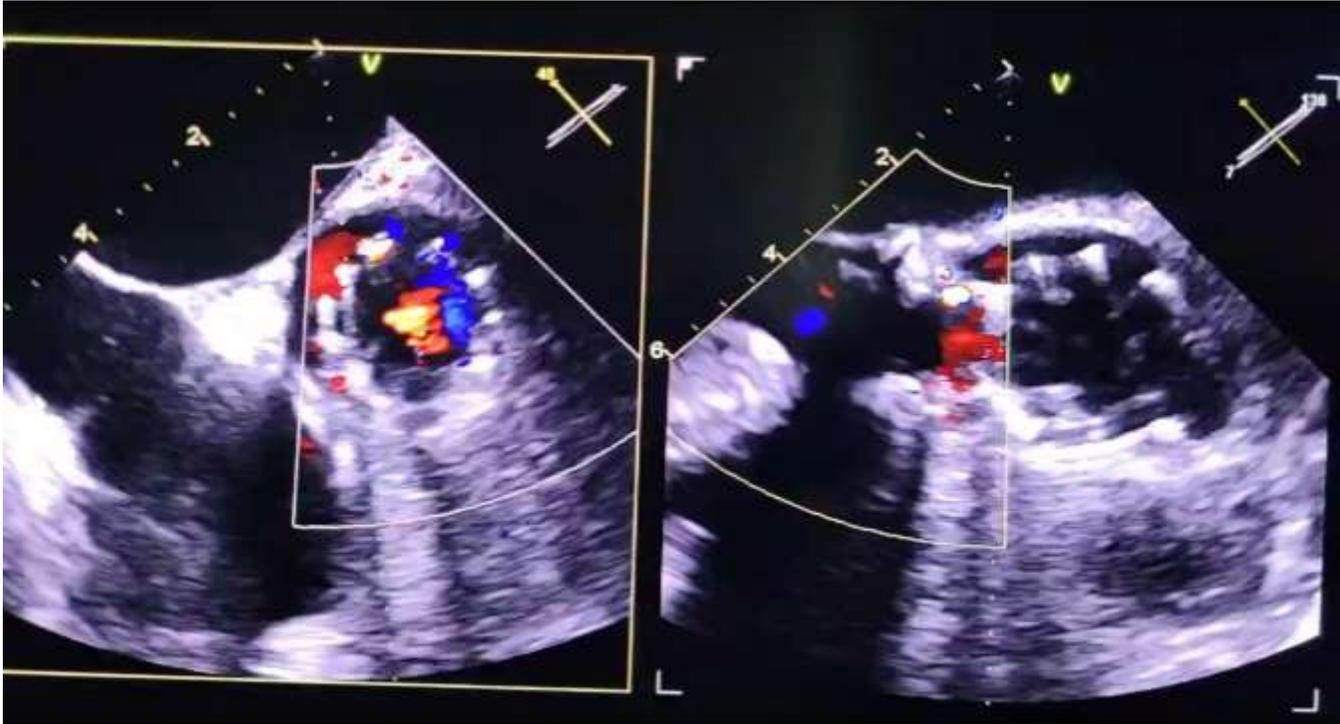
24-30405 s2
25/10/1945 F
TECAC
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Coro TECAC

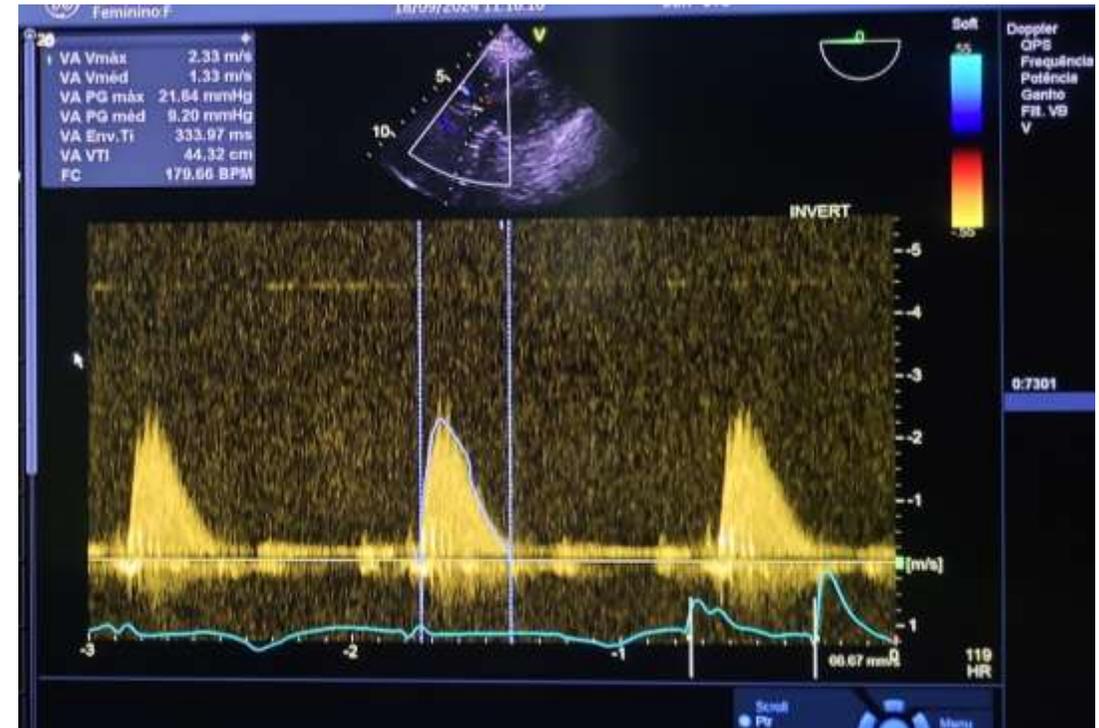
WL: 106 WW: 112 [D]

ECHO FINAL RESULT

ANNULUS FILLED



FINAL MEAN GRAD 9,20mmHg



FINAL MESSAGE

- PLANNING AND METICULOUS ANALYSIS IS THE KEY
- FOSTERING LOWER FINAL GRADIENT, IF POSSIBLE BELOW TEN
- HOW RELIABLE IS A BENCH TEST IN A BIOPROSTHESIS 13 YEARS OLD?

**MUCHAS
GRACIAS
POR SÚ
ATENCIÓN!**



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4Valves^{TV}