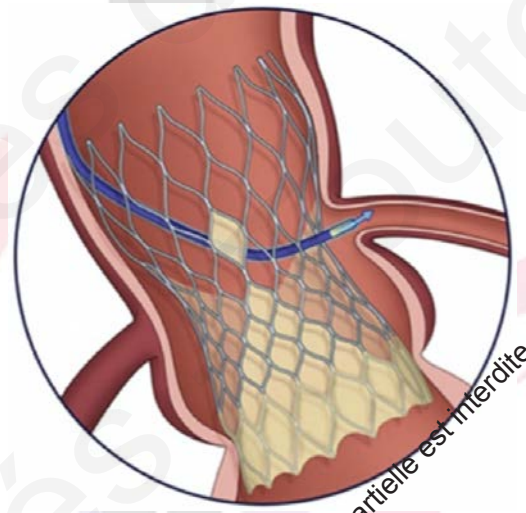
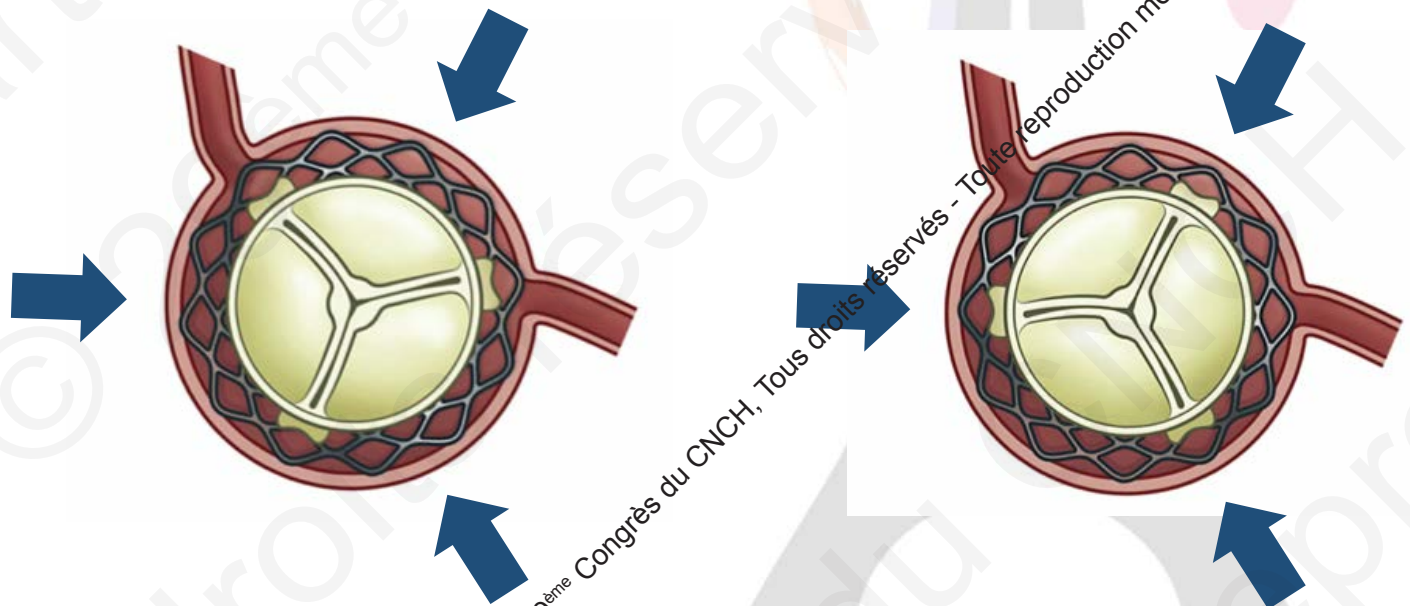


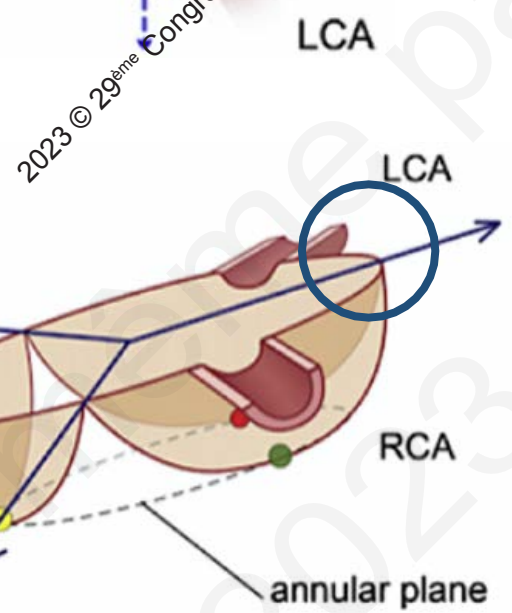
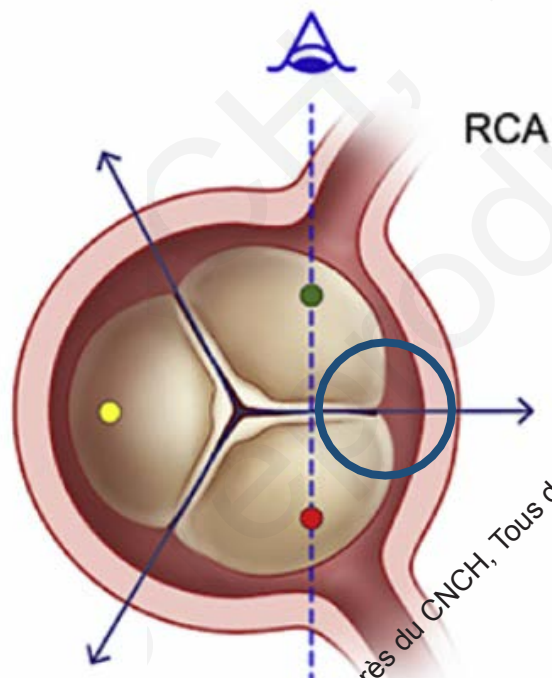


Alignement commissural et accessibilité coronaire

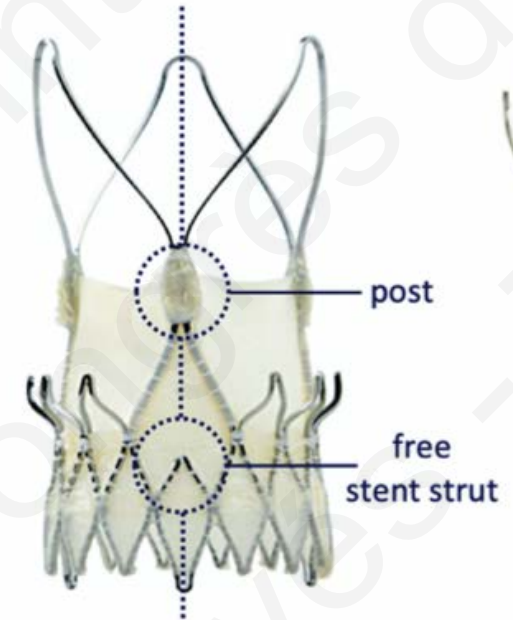
JY Wiedemann
GHRMSA

Alignement commissural concept

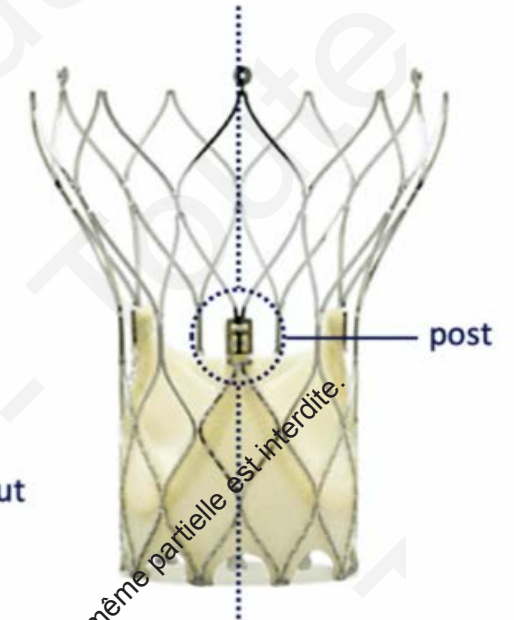




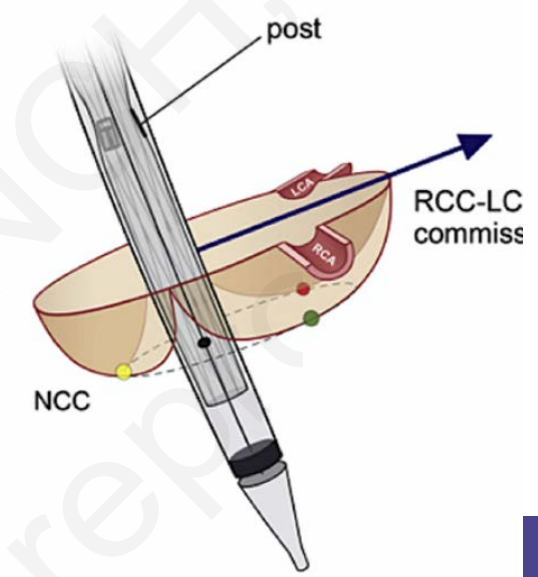
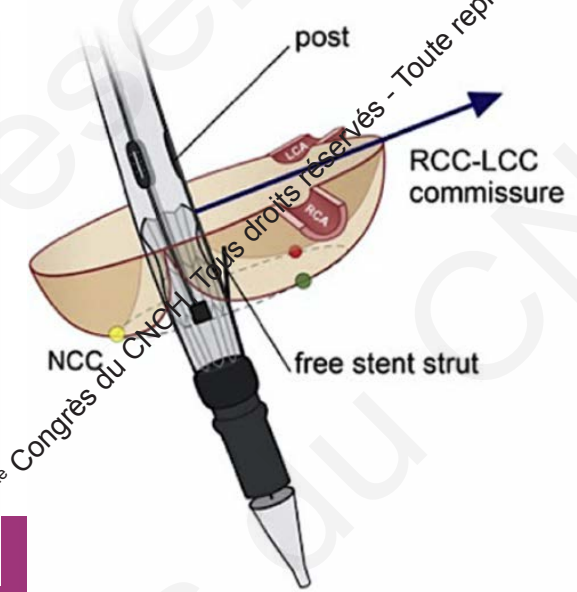
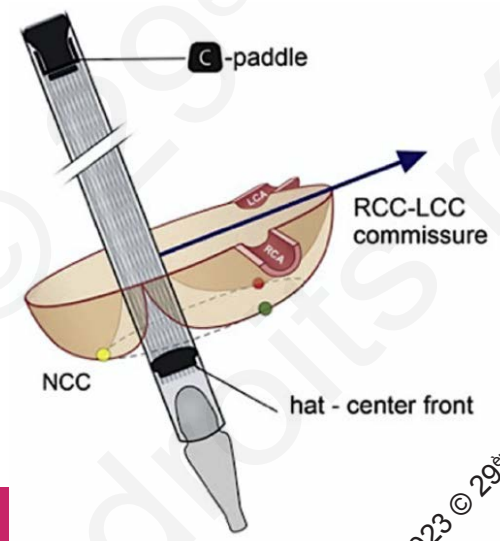
Evolut R/PRO™



ACURATE neo2™



Portico™



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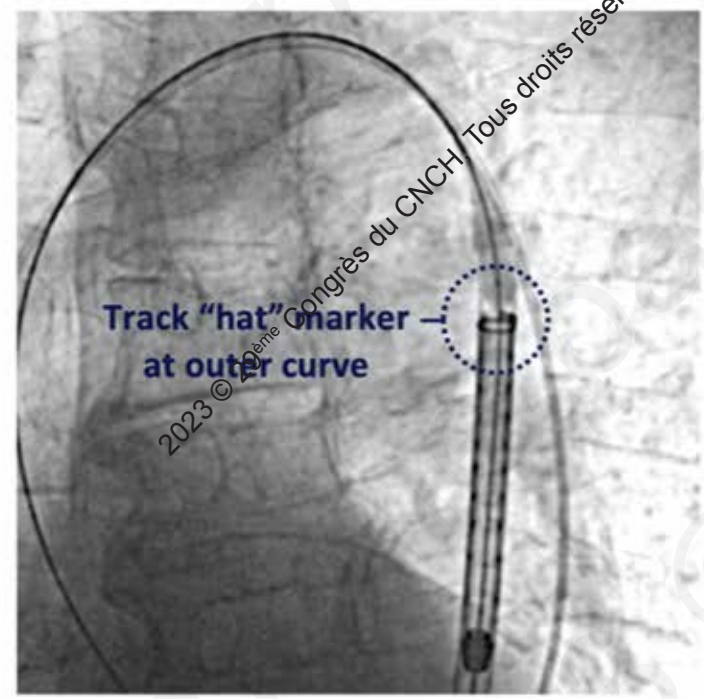
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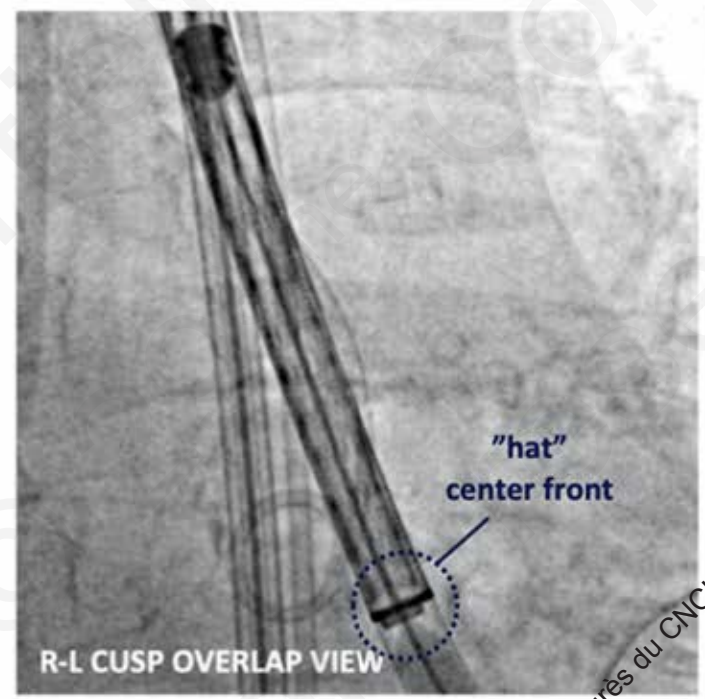
STEP 1 INSERTION



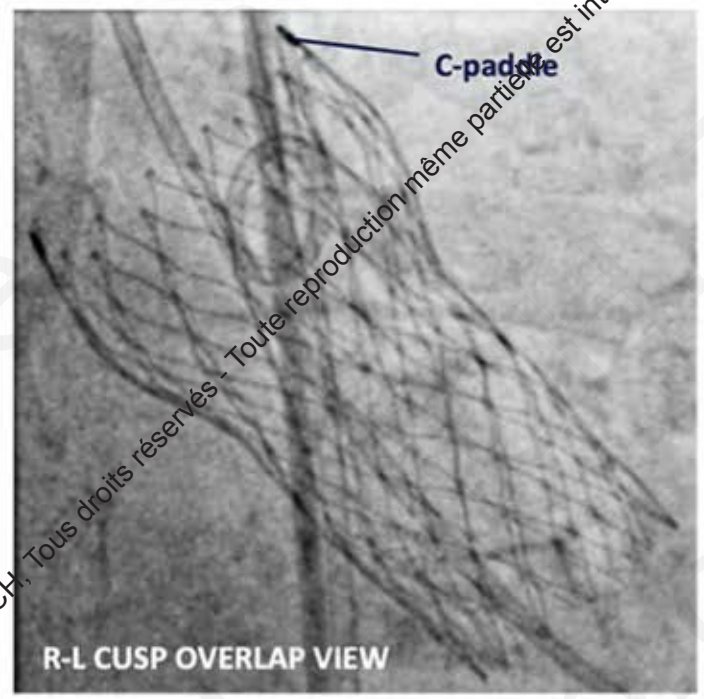
STEP 2. AORTIC ARCH



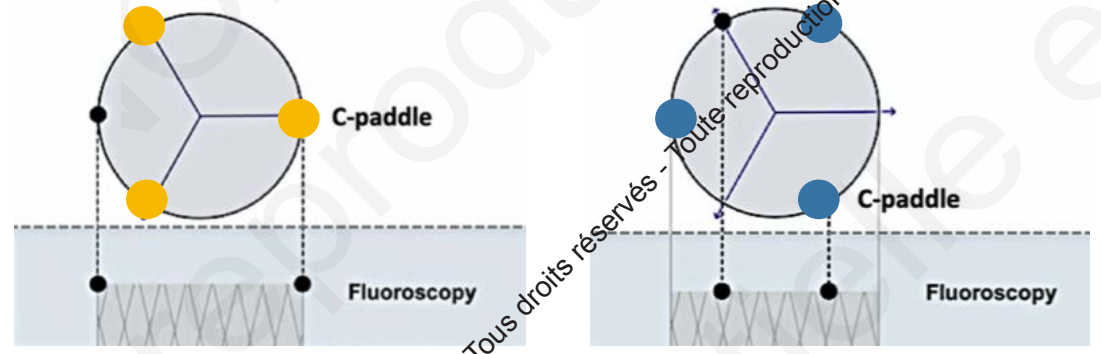
PRE-DEPLOYMENT



POST-DEPLOYMENT

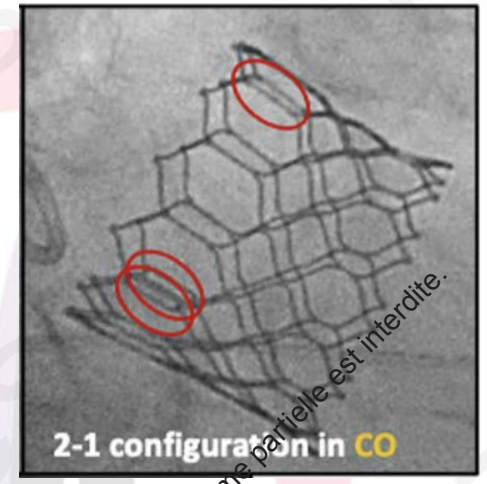


Evaluation



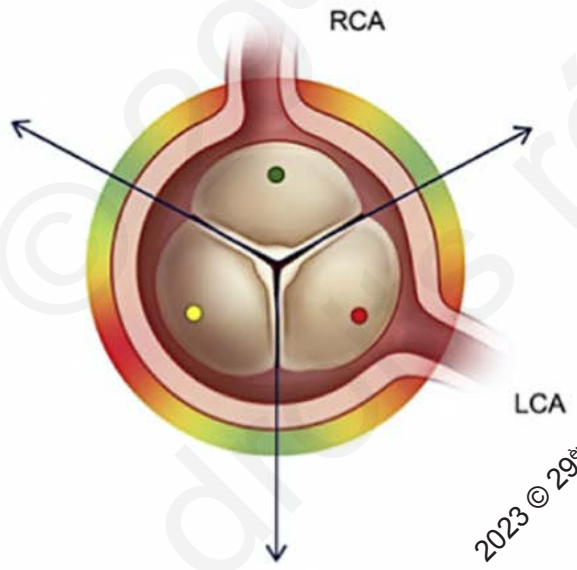
Tang JACC Cardiovasc Interv 2020

cuspid overlap view



Akodad JACC Case Reports 2023

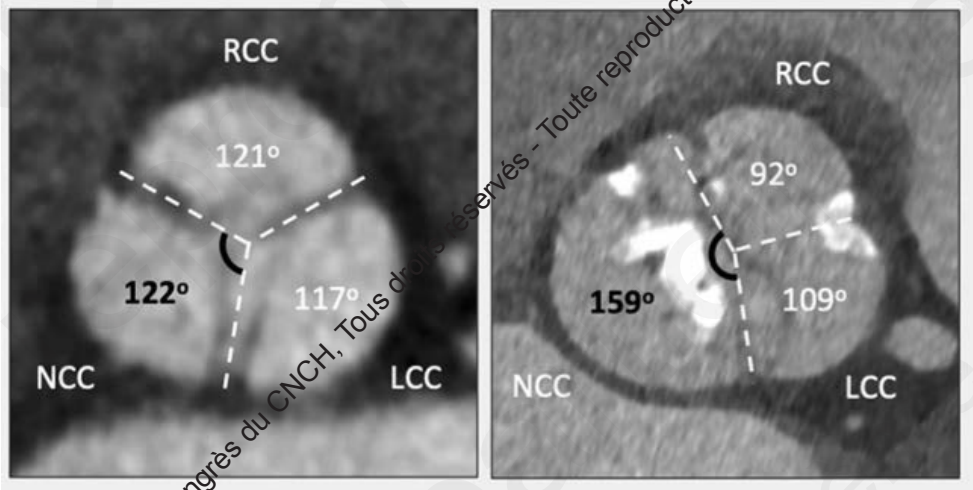
| | |
|-------------|----------------------|
| 0°-15.0° | commisural alignment |
| 15.1°-30.0° | mild CMA |
| 30.1°-45.0° | moderate CMA |
| 45.1°-60.0° | severe CMA |



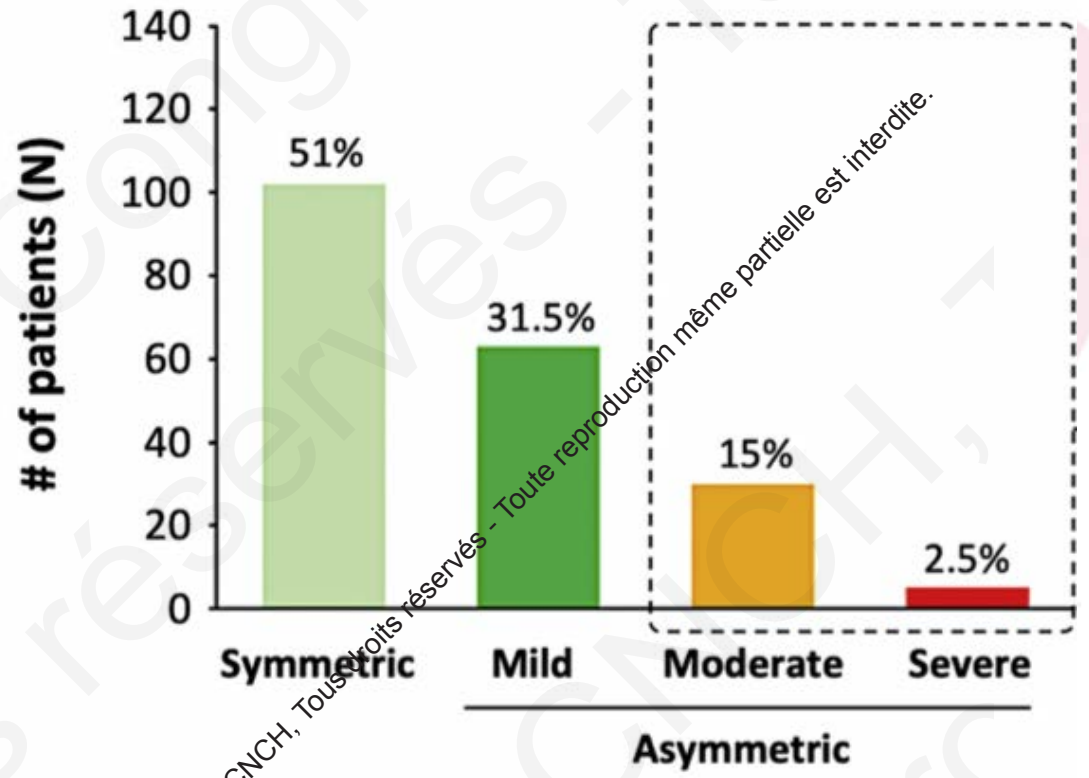
Succes de 91.6%, 85%, 86.1%

- Tang JACC cardiovasc Interv 2020
- Bieliauskas JACC cardiovasc Interv 2021
- Tarantini Cir Cardiovasc Interv 2022

asymétrie des sinus



TRICUSPID AV



AV CUSP SYMMETRY

Inter-commissural angle of the largest cusp

- 120°-125° symmetric
- 125°-130° mildly asymmetric
- 130°-135° moderately asymmetric
- >135° severely asymmetric

Wang JACC Cardiovasc Interv 2022

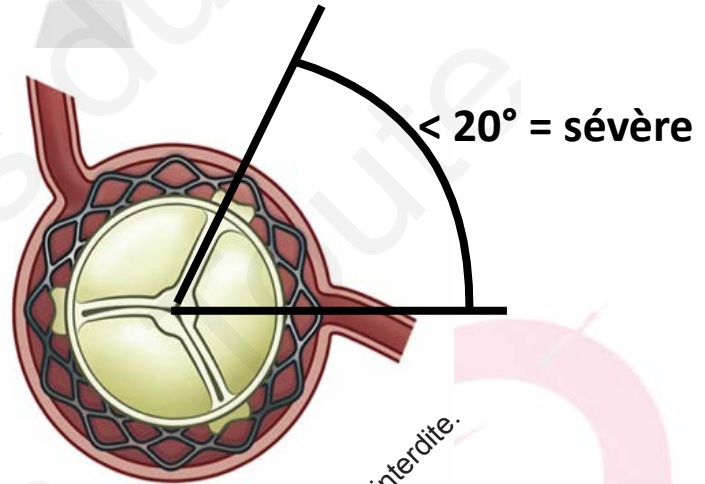
Overlap coronaire

réduction de 38 à 24,3%

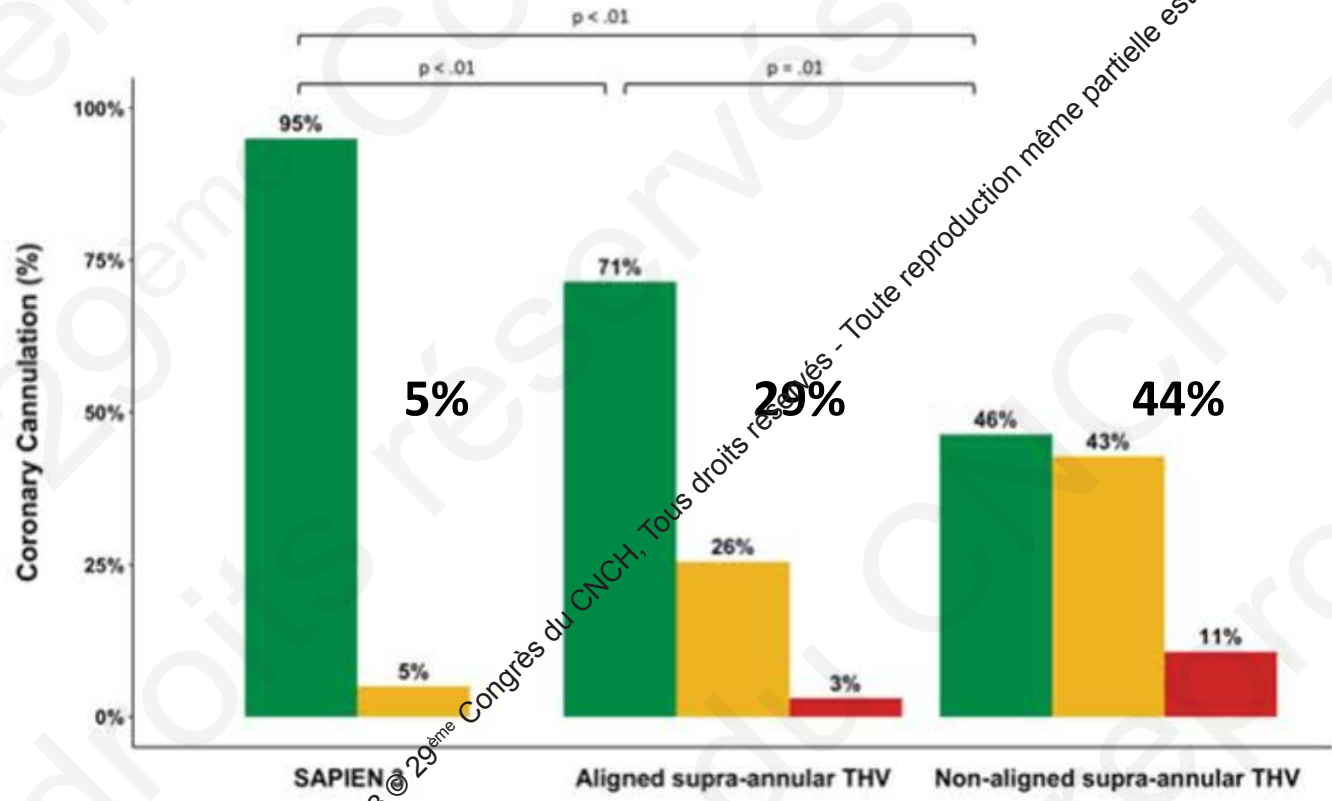
Tang JACC Cardiovasc Interv 2020

réduction de 41,6 à 20,8%

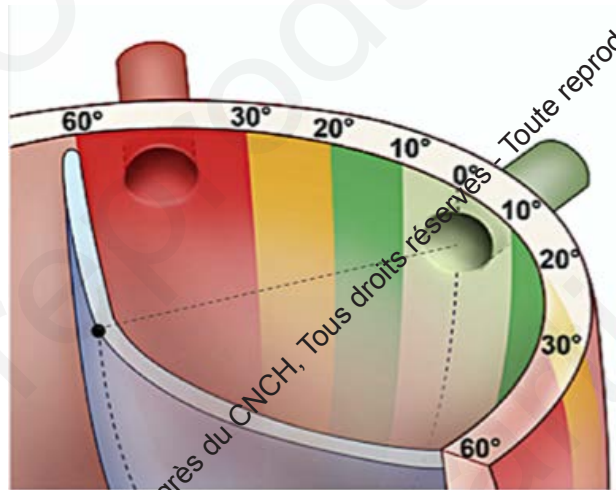
Tang JACC Catheter Cardiovasc Interv. 2021



Accessibilité coronaire



excentricité des ostia coronaires

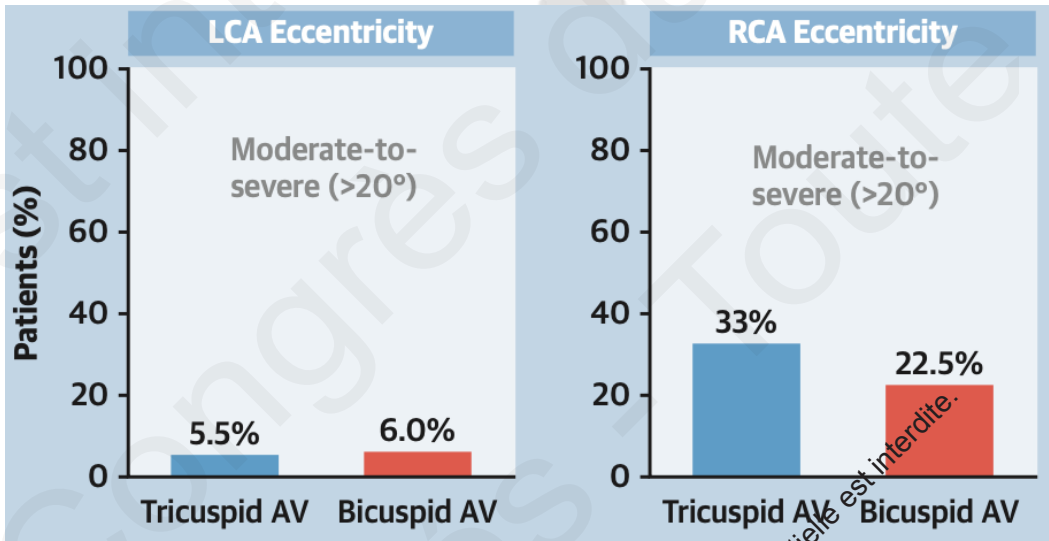


CORONARY OSTIAL ECCENTRICITY

The angle between center-cusp and coronary ostium

- 0°-10° centered
- 10°-20° mild eccentricity
- 20°-30° moderate eccentricity
- >30° severe eccentricity

Tang JACC Cardiovasc Interv 2022



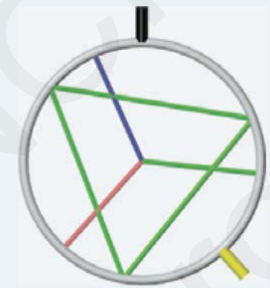
Wang JACC Cardiovasc Interv 2022

Accurate commissural alignment



32% of moderate or severe coronary overlap

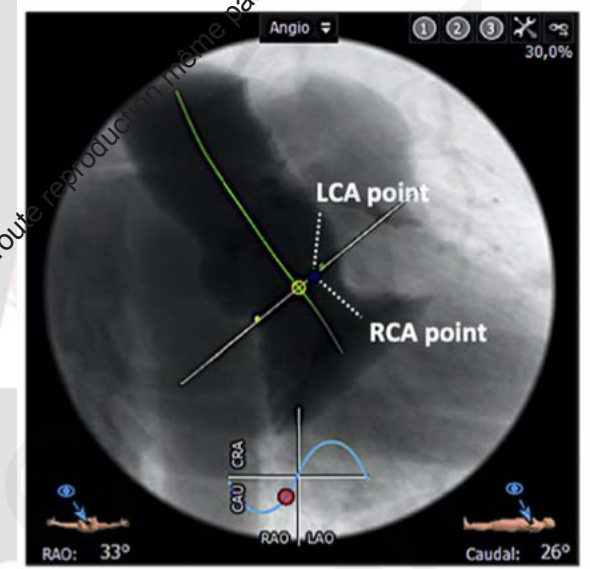
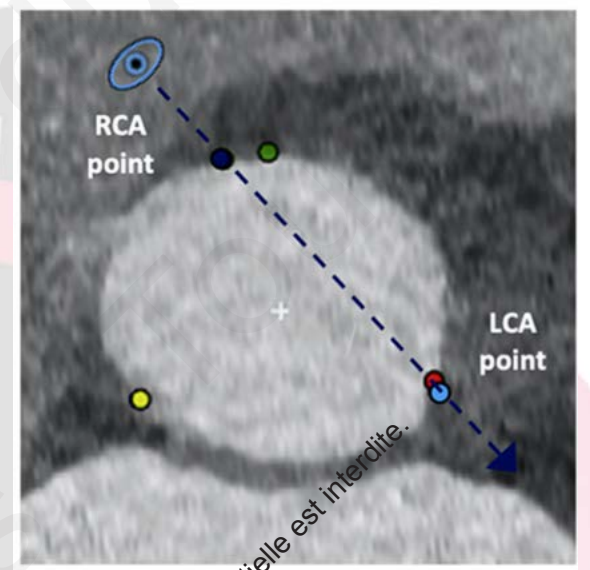
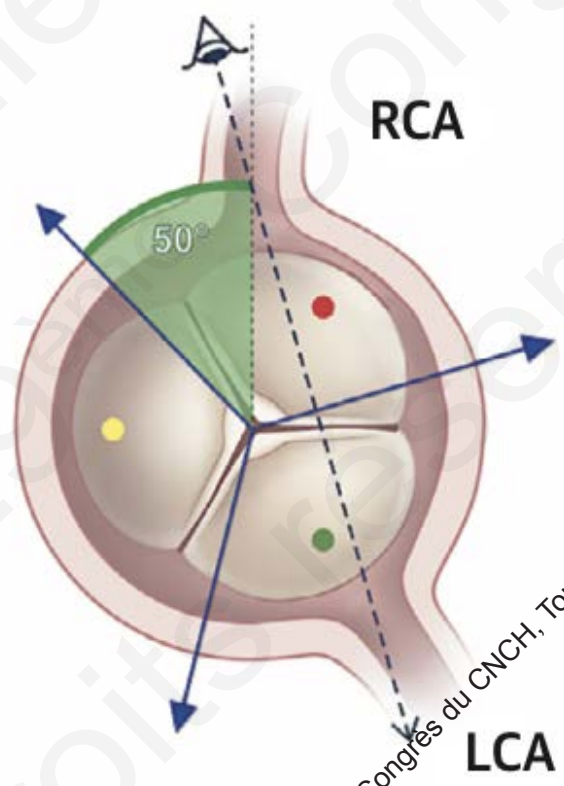
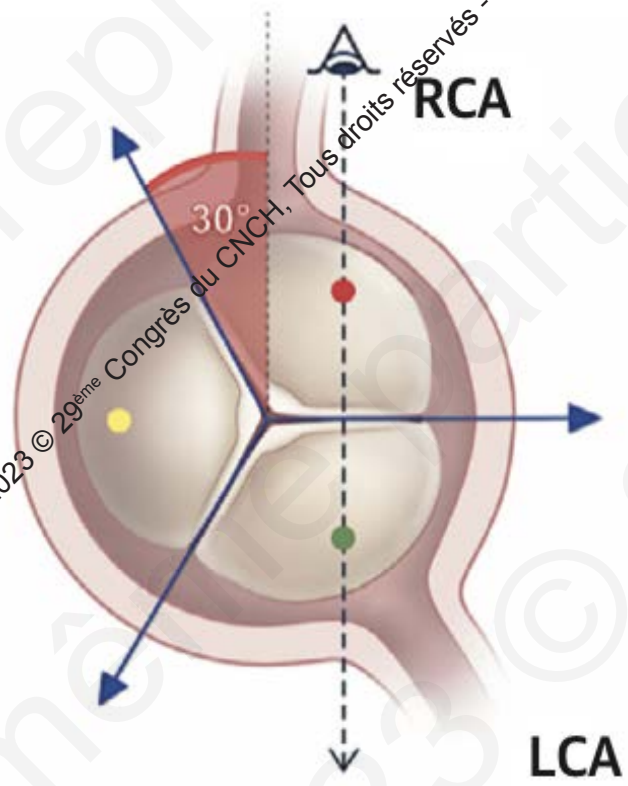
Optimized coronary alignment



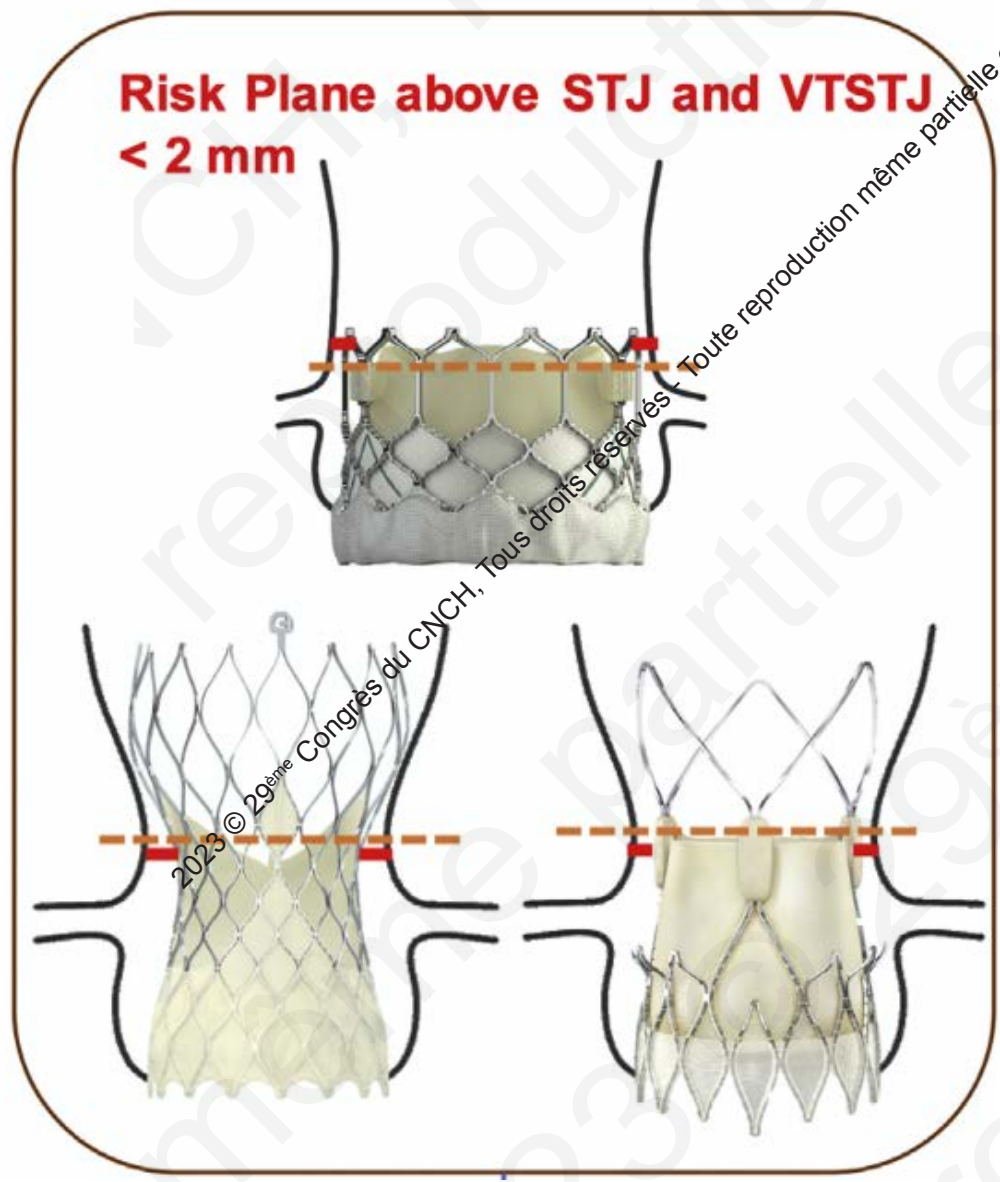
0% of severe coronary overlap
5% of moderate coronary overlap

CO overlap view

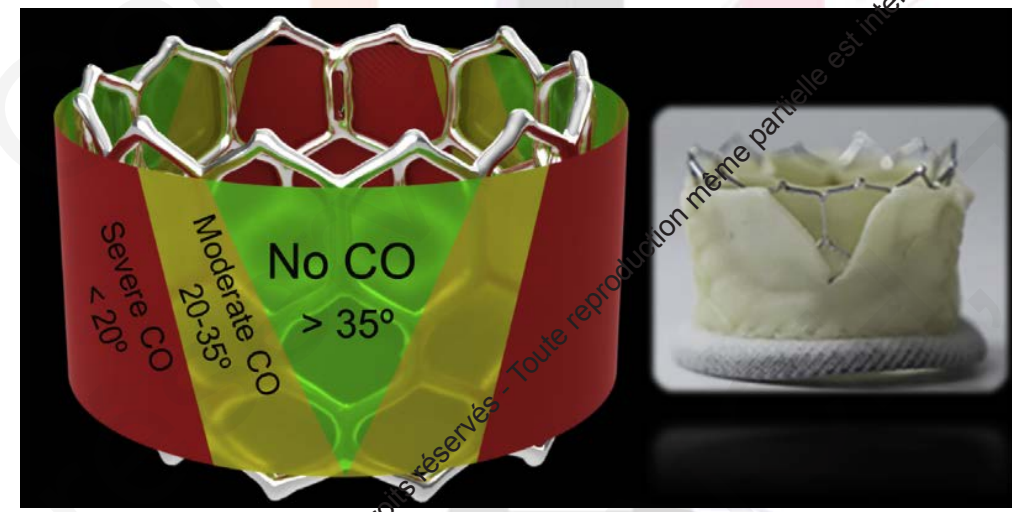
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Redondo JACC Cardiovasc Interv 2022



TAVR in TAVR





Les outils..

EVOLUT FX

- Redesigned Nose Cone
- Redesigned Capsule
- Single Spine Shaft
- Optimized Stability Layer
- Radiopaque Dot-Markers at 3mm from inflow

SAPIEN X4

- Intra-annular design
- vine Pericardial Leaflets
- Resilia Tissue
- Cobalt Chromium Valve frame
- Novel frame design providing adjustable sizing
- Low frame height
- Large cells
- Enhanced PET outer Skirt

X4 DELIVERY SYSTEM

- a) On-balloon valve prep
- b) THV rotation control

marqueurs directs des commissures

flexibilité du cathéter

possibilité d'alignement commissural

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