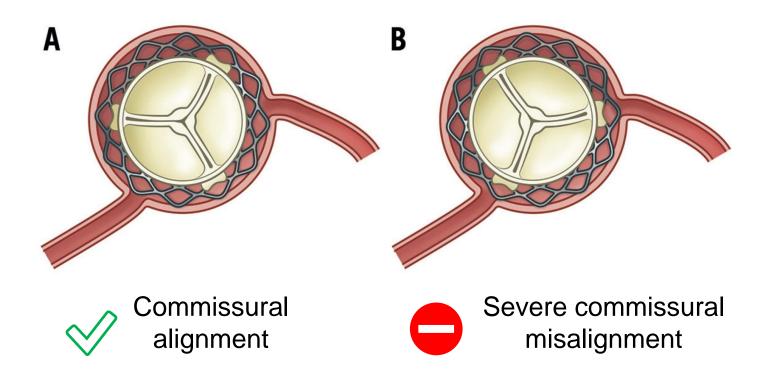
Commissural alignment with Acurate Neo 2

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Commissural alignment – what it is





Commissural alignment – why?

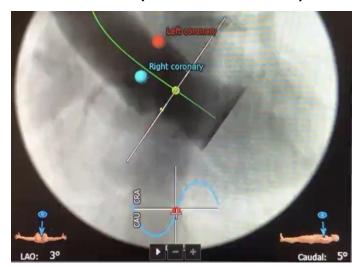
"Lifetime management" – ready for TAVI in TAVI

- Improve coronary access
- Facilitate future leaflet modification (BASILICA)
- ? Reduce PVL
- ? Improve sinus washout
- ? Reduce leaflet thrombosis



Understanding 3-cusp and cusp overlap views

Commissural alignment is having ONE stent post where you have TWO coronaries (in inner curve)



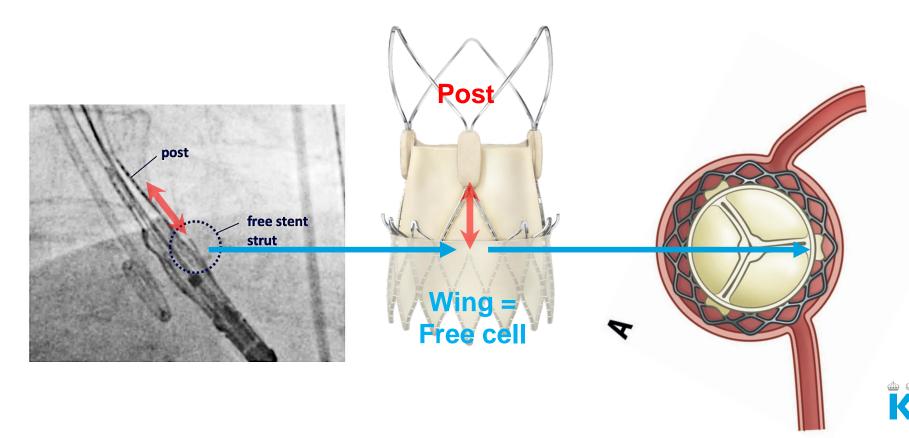
3 cusp (LAO) LCA and RCA on different sides



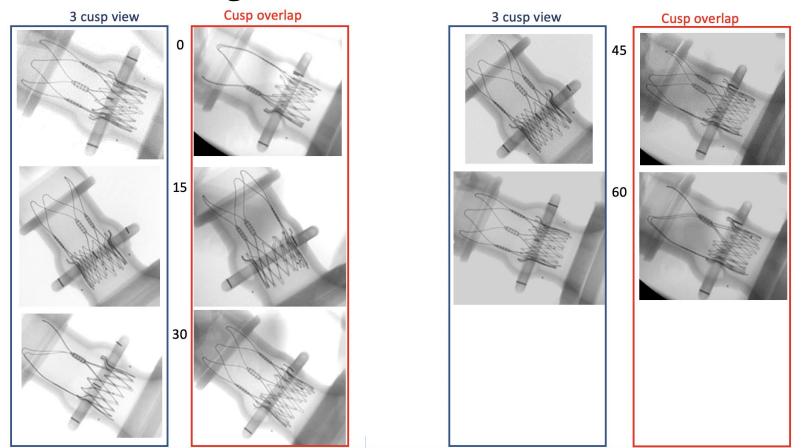
Cusp overlap (RAO)
LCA and RCA on inner curve



Acurate neo2 features for alignment



How does alignment look on fluoro?





Karolinska Commissural Alignment Technique

Valve insertion

Insert valve into sheath with port down at 6
 o'clock and advance marker to top of pigtail

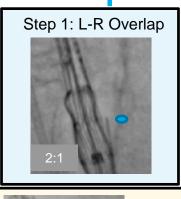
Step #1: Confirm in cusp overlap

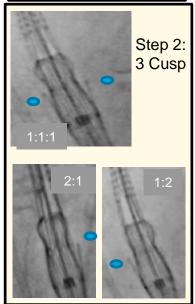
Perfect (2:1) or misaligned (1:2)

Step #2: Achieve in 3 cusp

- Achieve 1:1:1 posts and 2 equal wings
 - If 2:1 go CW (Two Outer Rotate Clockwise = TORC), if 1:2 go CCW
- After alignment is achieved cradle the handle to allow torque to dissipate

Advance and deploy



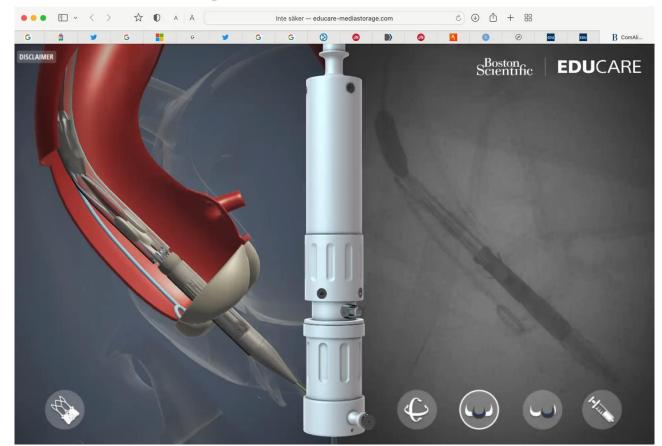




Acurate Commissural Alignment case 2021



Acurate Alignment online simulator

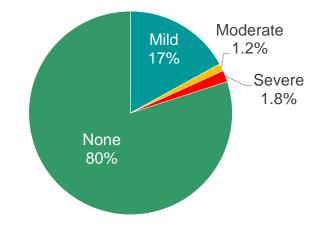




Essential Results: Efficacy of alignment

• Out of 170 patients, 167 (98.2%) were able to be analyzed for alignment

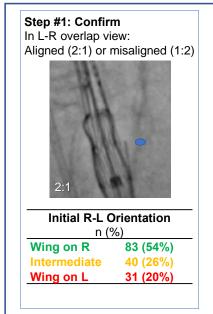
- 97% of patients had no significant misalignment
 - 80% none
 - 17% mild
 - 1.2% moderate
 - 1.8% severe



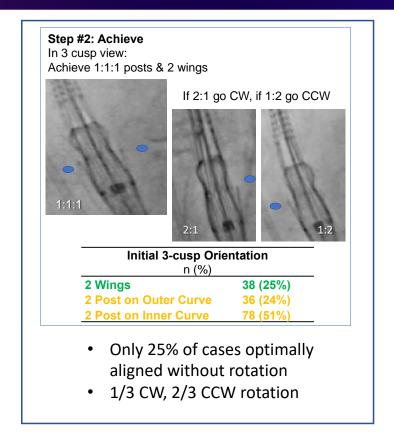
Average alignment time 92 seconds



Analysis of Initial Orientations with flushport 6 o'clock



Between 20-46% of valves initially misaligned with flushport alone







Commissural alignment with Acurate neo2

- Ideal with multiple radiopaque markers and torqueable catheter
- Combination of 3-cusp and R-L-overlap views
- Follow simple rules for rotation
- Possible in almost all patients
- High success rate (97%)
- Fast (92 seconds)

