



Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)

Aortic Cusp Repair

How to Start

H.-J. Schäfers

Dept. of Thoracic and Cardiovascular Surgery
University Hospital of Saarland
Homburg/ Saar
Germany

When to repair

Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)



UKS
Universitätsklinikum
des Saarlandes

reasonable

prolapse,
postendocarditic defects (healed
endocarditis)

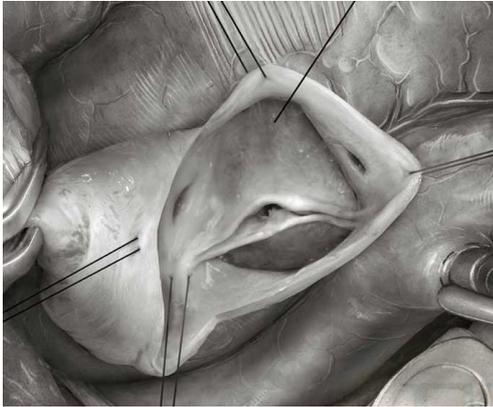
prolapse due to fenestrations, anomaly,
retraction/ calcium in 1 cusp, active endocarditis

retraction/calcium in 3 cusps

?

!

uncertain



Operative Steps:

1. Patient Selection:

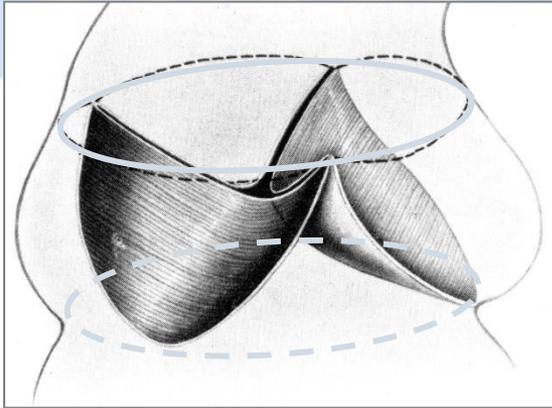
Bicuspid aortic valve

Normal root size

Orientation of commissures $> 150^\circ$

Minimal or absent calcification

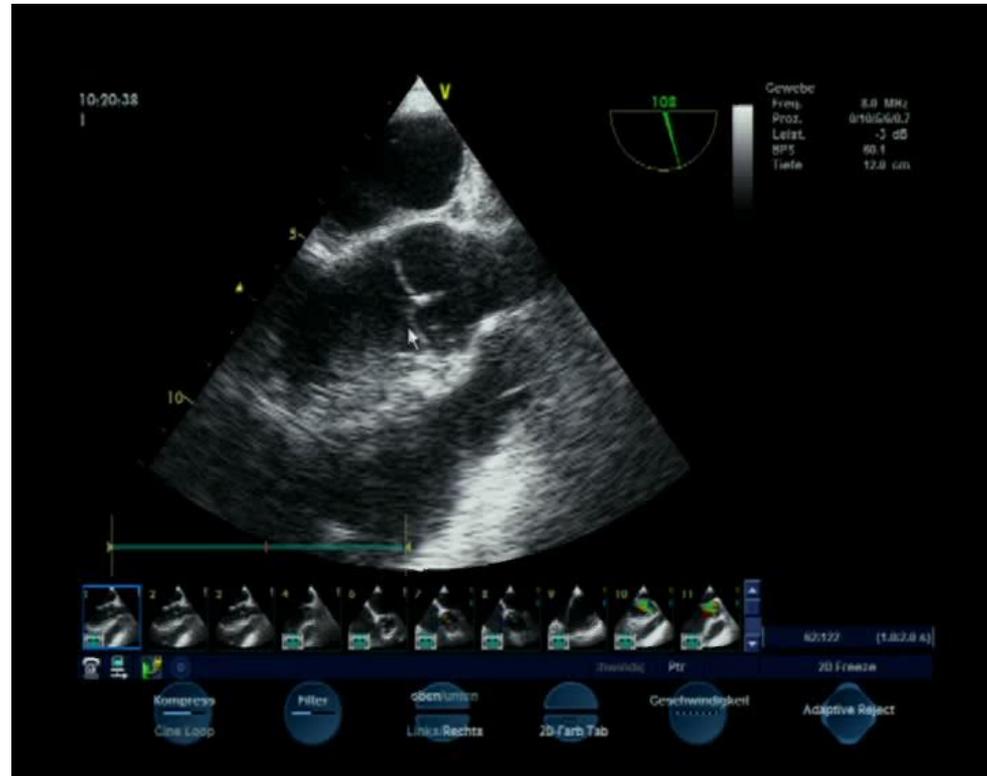
Complete fusion



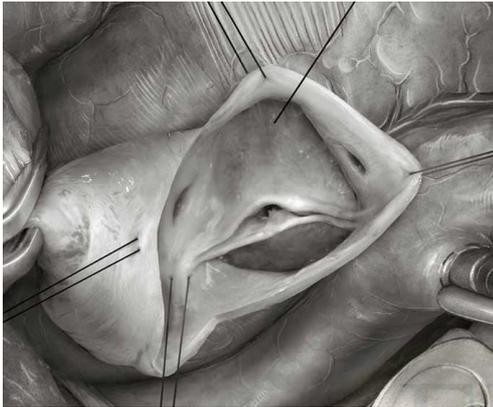
m Folienmaster anpassen)

Operative Steps:

Assessment:



Operative Steps:



2. Exposure:

Standard cannulation

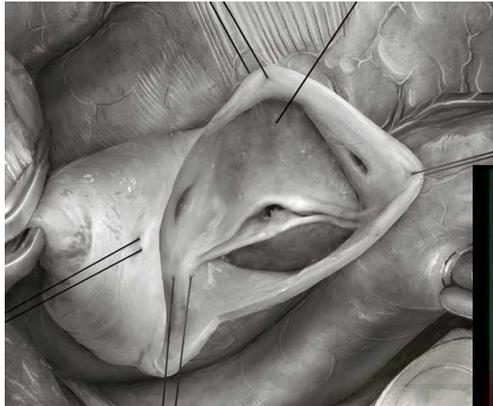
Transverse aortotomy (5 to 10 mm
above ST junction

Cardioplegia

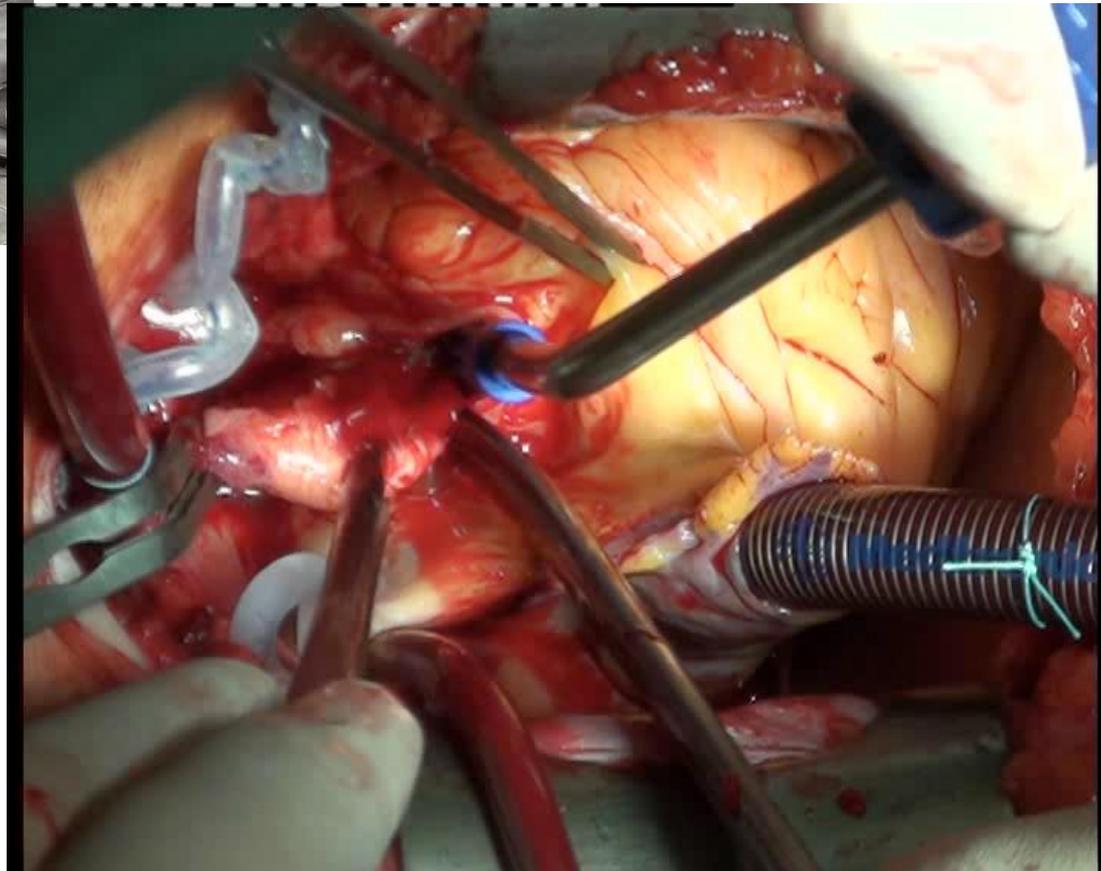
Traction sutures on commissures
in direction of commissures &
under tension

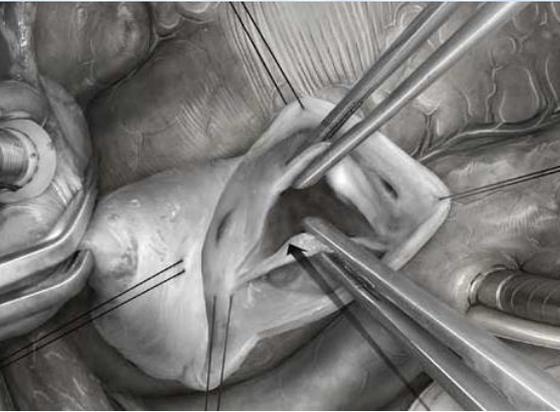
Titel des Vortrags und Verfasser (bitte im Folienmaske eingeben)

Operative Steps:



Exposure:





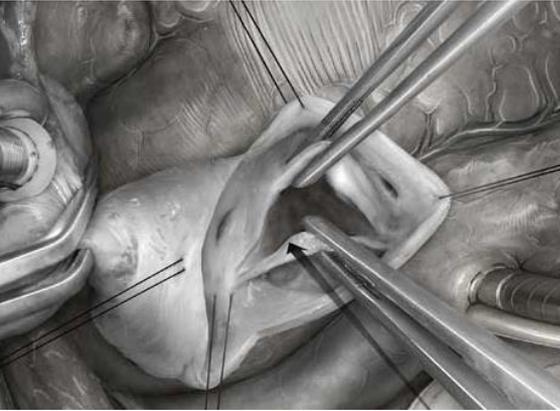
im Folienmaster anpassen)

Operative Steps:

4. Assessment of large (NC) cusp:

Geometric height (how much tissue?)

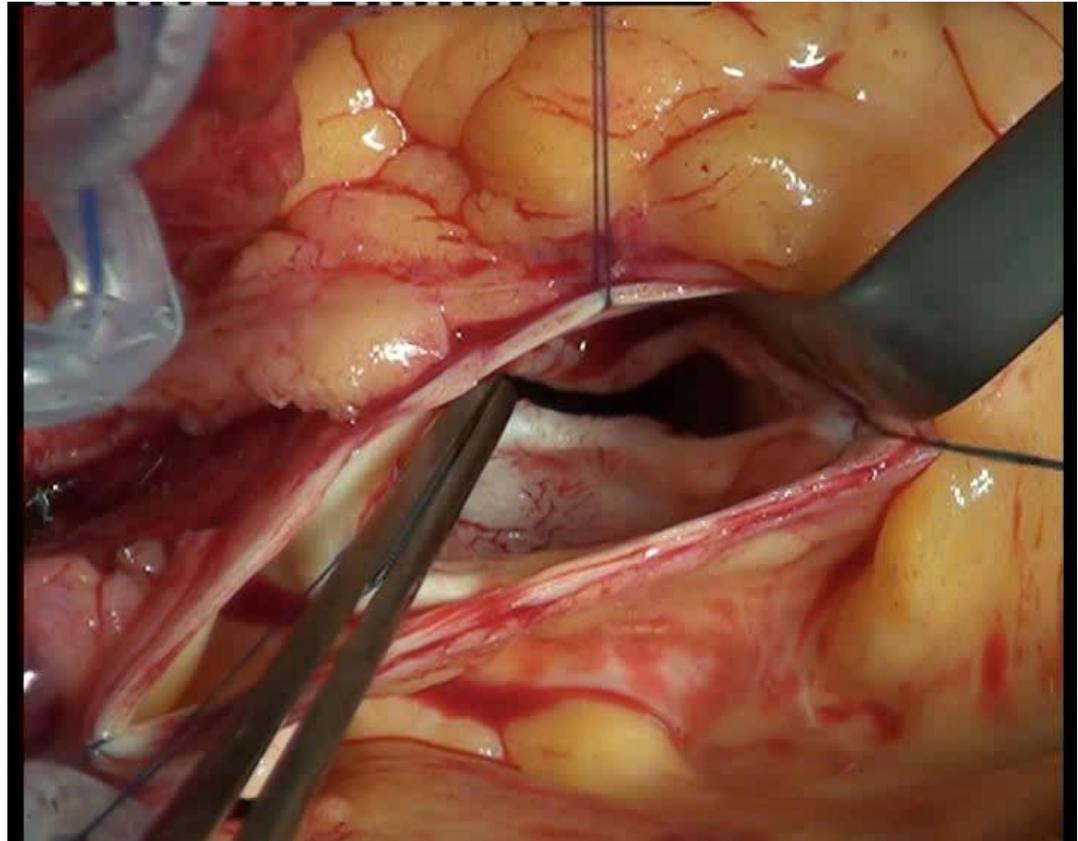
Effective height (cusp configuration)

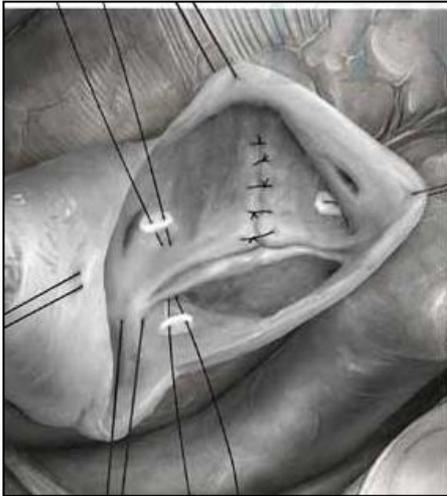


im Folienmaster anpassen)

Operative Steps:

Assessment of large (NC) cusp:



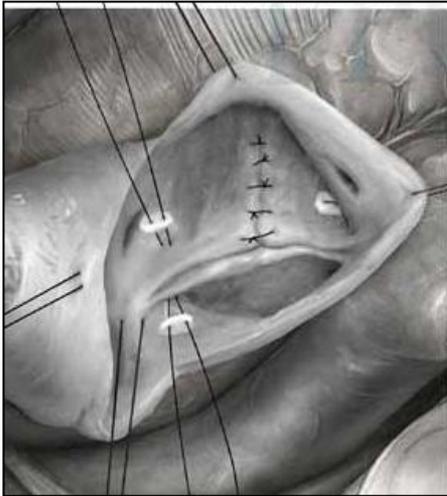


Operative Steps:

5. Correction of AV dilatation:

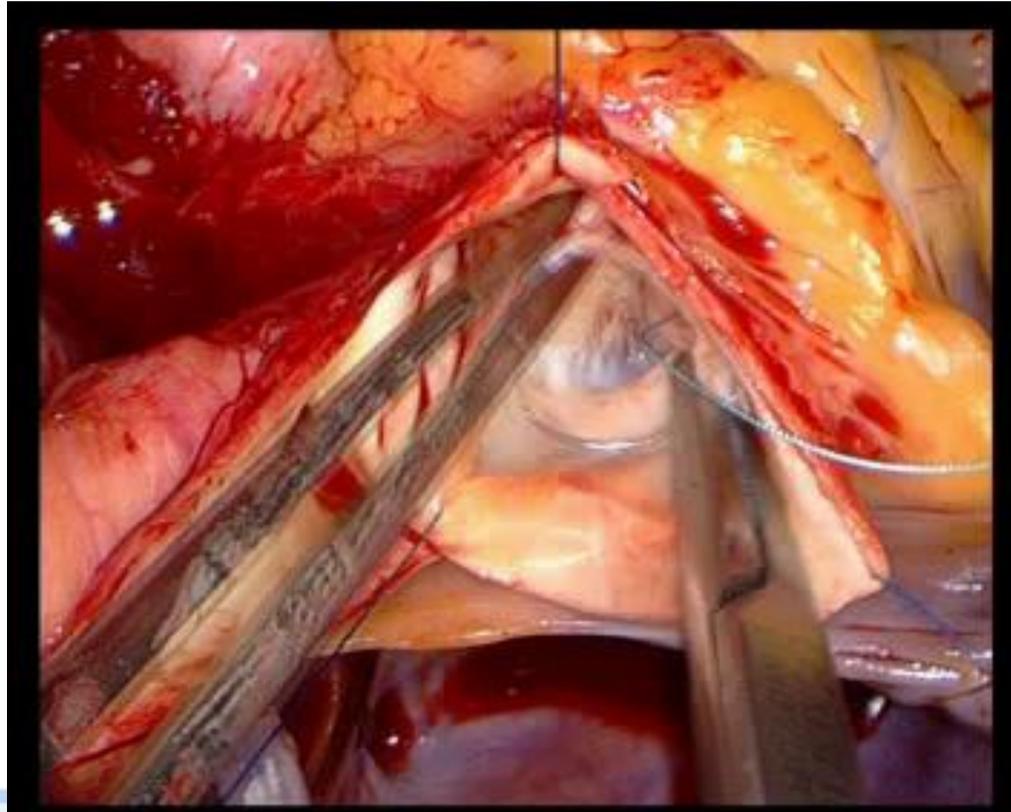
- Cabrol sutures (subcommissural plication)
- circumferential plication
- ??

Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)

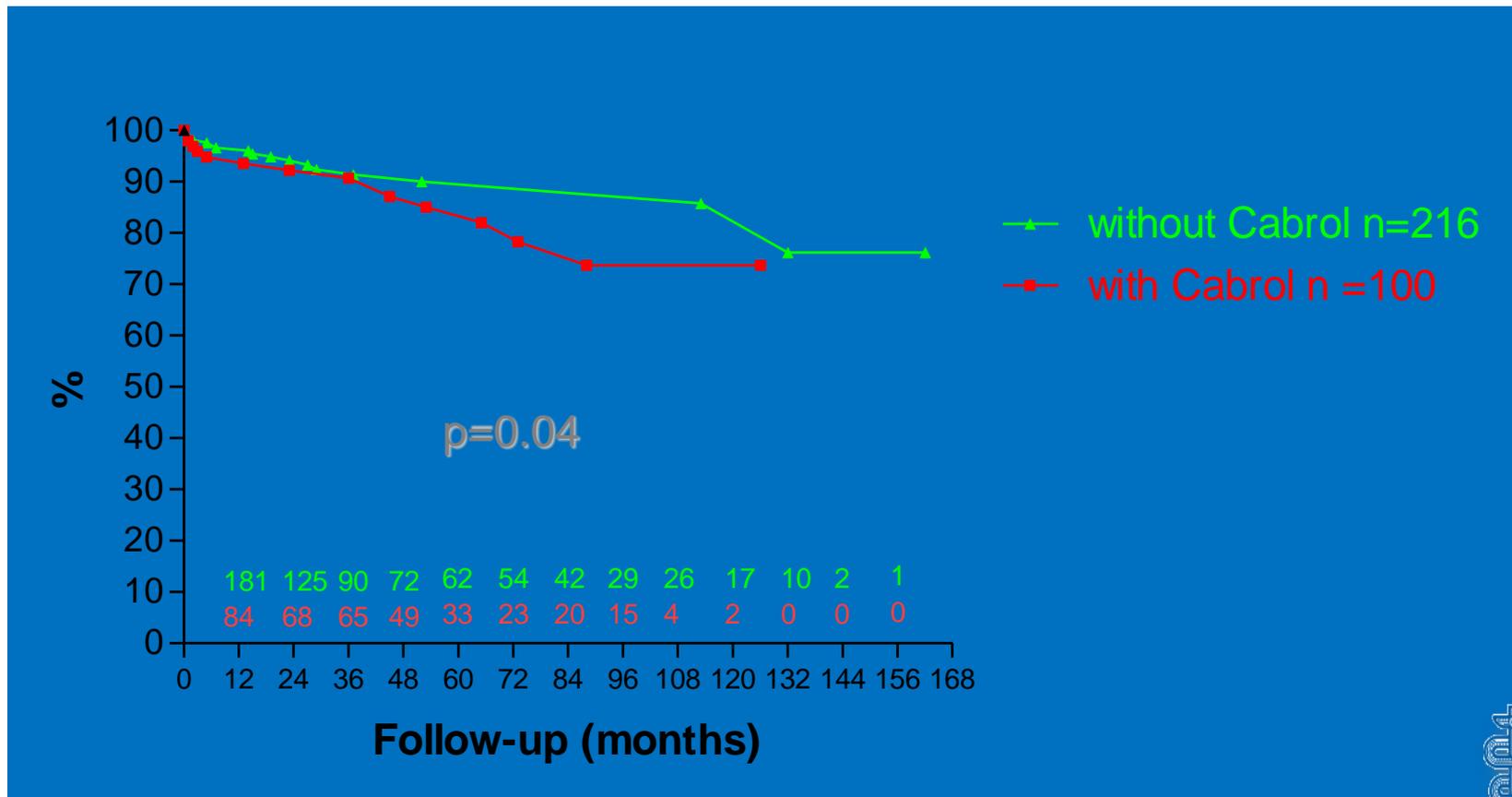


Operative Steps:

5. Correction of AV dilatation:

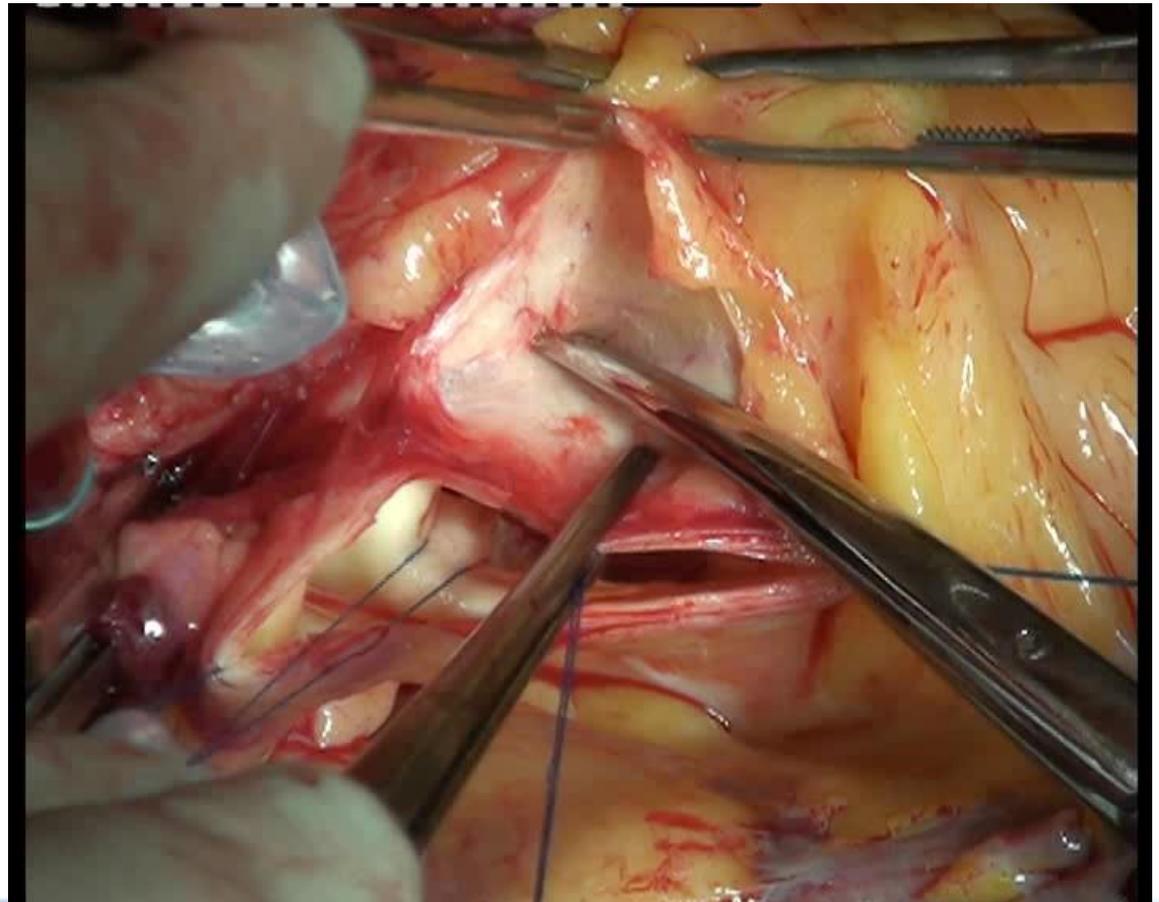
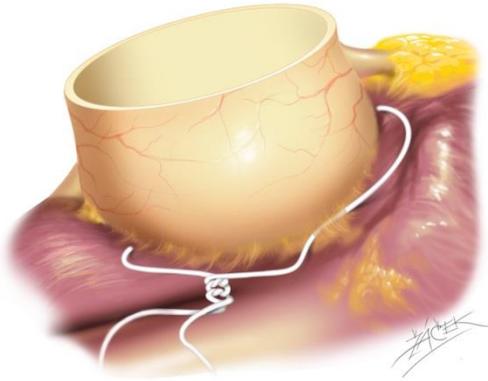


Effect of Cabrol Sutures

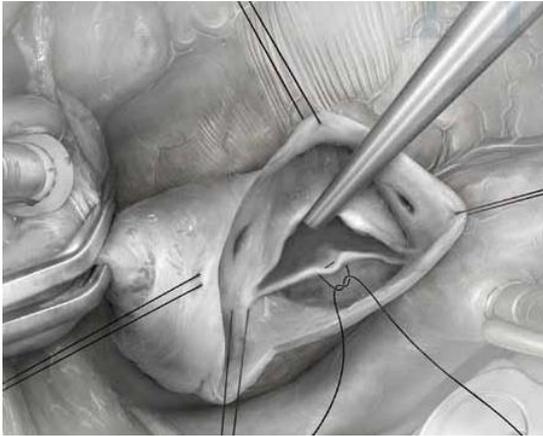


Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)

Operative Steps:



Operative Steps:



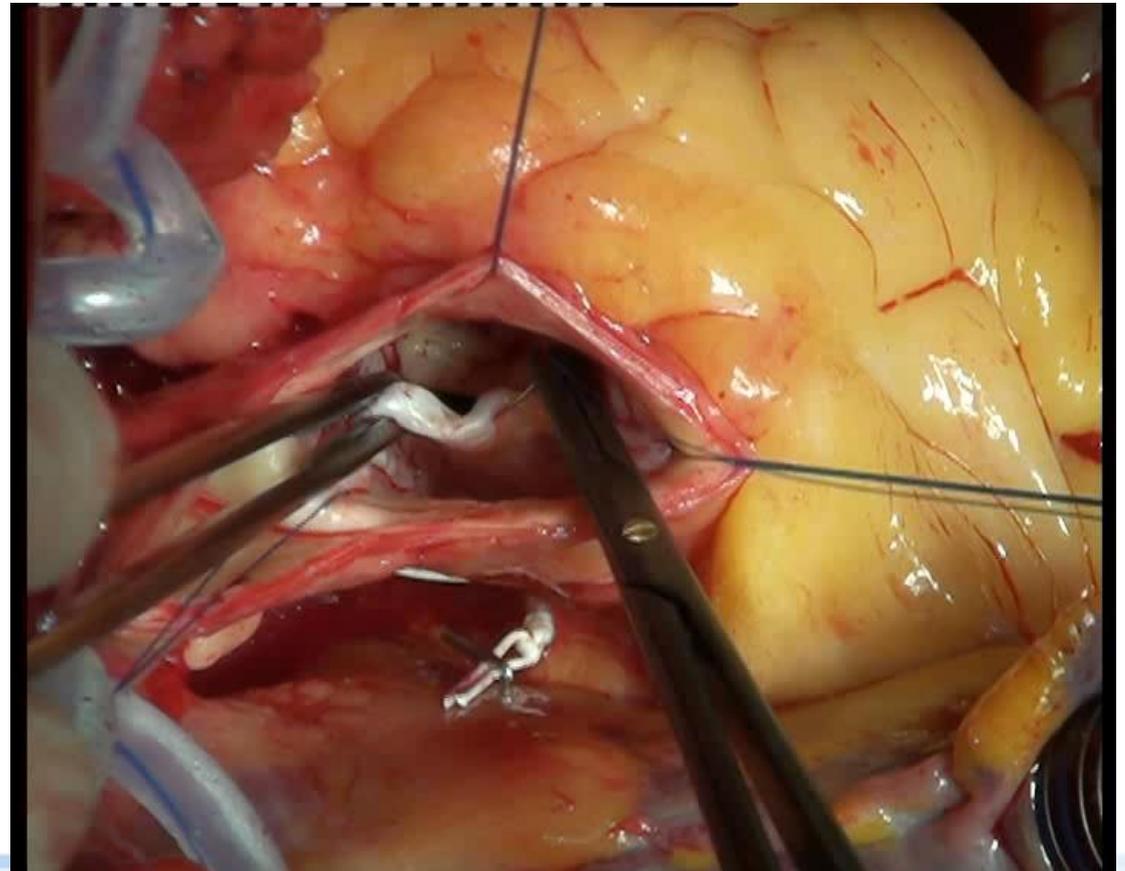
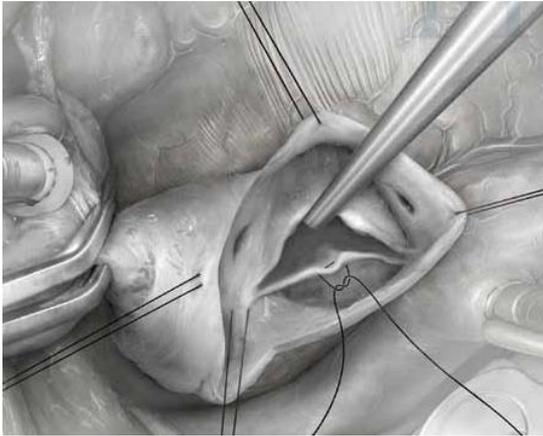
6. Correction of NC cusp prolapse:

- measure effective height
- plicate free margin
- ??

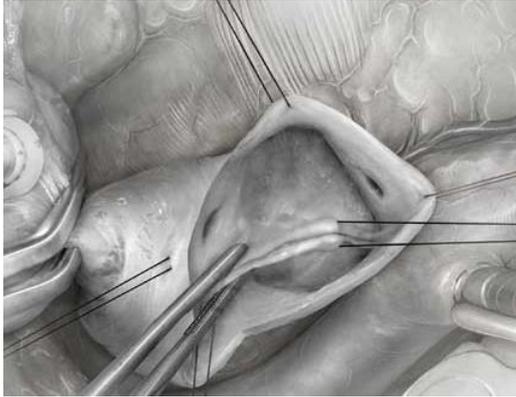
Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)

Operative Steps:

Correction of NC cusp prolapse:



Operative Steps:

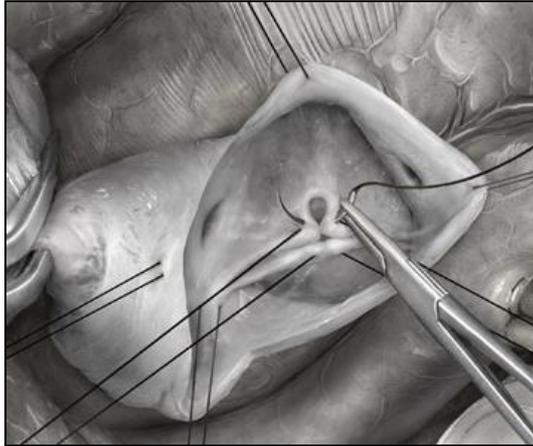


Assessment of fused cusp geometry (prolapse):

- stay sutures with equidistant lengths of NC/fused margins from each commissure

Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)

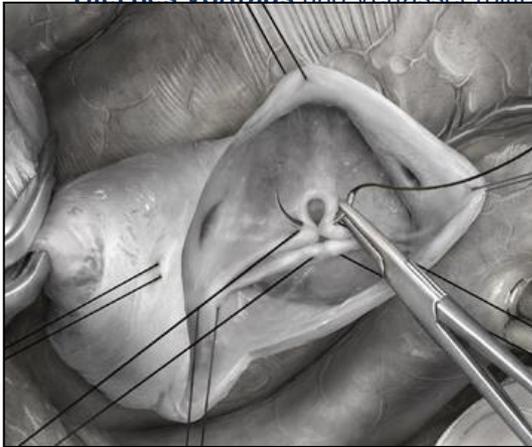
Operative Steps:



9. Correction of fused cusp geometry (prolapse):

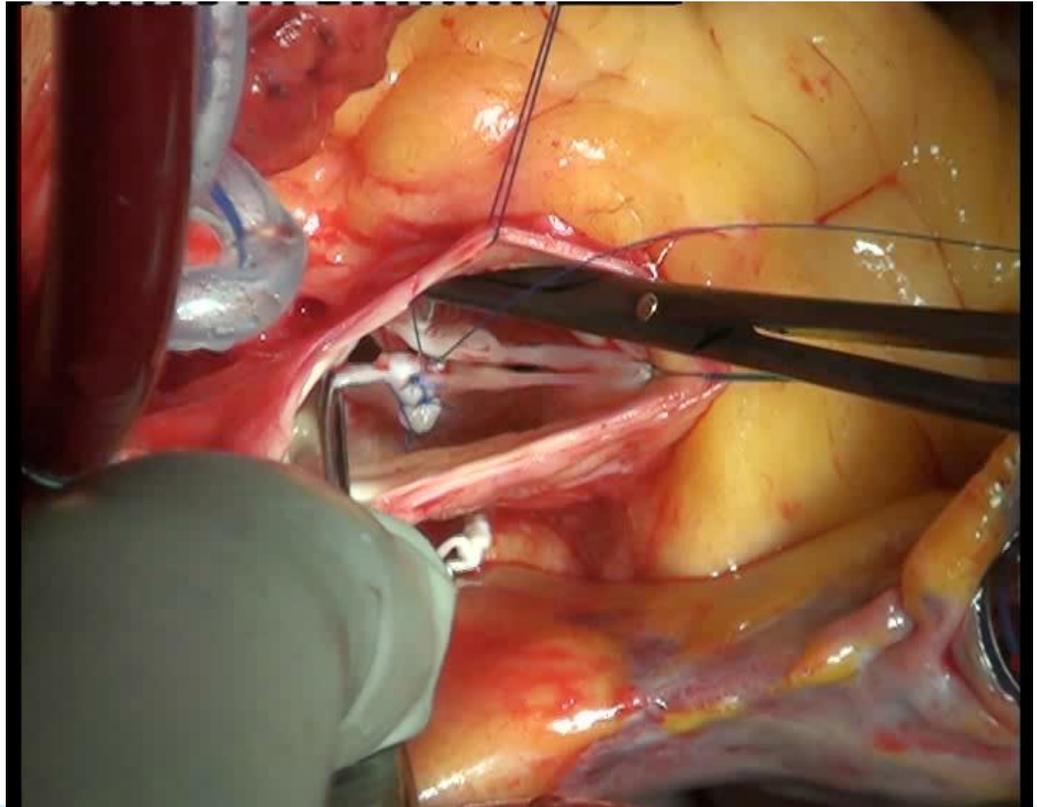
- plication of free margin
- triangular resection

Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)

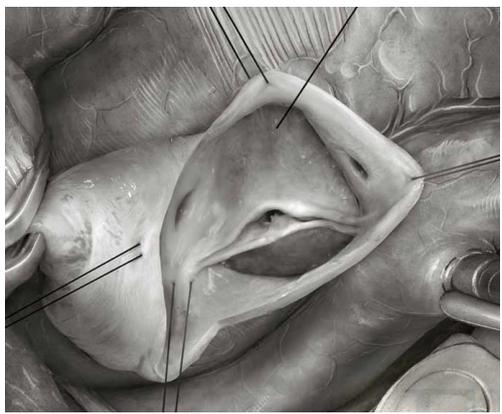


Operative Steps:

Correction of fused cusp geometry (prolapse):



Titel des Vortrags und Verfasser (bitte im Folienmaster anpassen)



Final check

