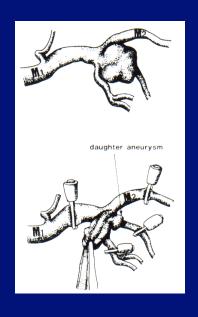
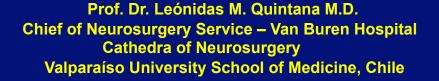
The 8th Annual International Neurosurgery Conference 26-31 December 2012



Temporary Clipping in Aneurysm Surgery When it's indicated







TEMPORARY CLIPPING UNDER BRAIN PROTECTION FOR:



- 1. TO AVOID (AND TO TREAT) PREMATURE RUPTURE
- 2. -"REMODELATION" OF THE NECK AND DOME
- 3. DECREASE TENSION INSIDE DOME AND NECK
- 4. -FRAGILE NECK TO AVOID RUPTURE
- 5. -TO AVOID CLIP SLIDING
- 6. -TO AVOID STENOSIS OF MAIN ARTERY
- 7. -FACILITATE NEIGHBOURING VISUALIZATION
- 8. BIG OR GIANT ANEURYSMS

CEREBRAL PROTECTION VALPARAÍSO COCKTAIL



PROPOFOL

10 mg/Kg./hr.

METABOLIC NEEDS

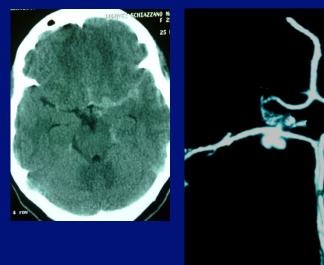
MANITOL

1gr/Kg/doses e/ 100 min

CRE

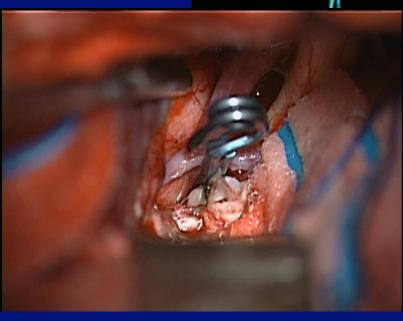
NIMODIPINE 2 mg/ hr. continous I.V.

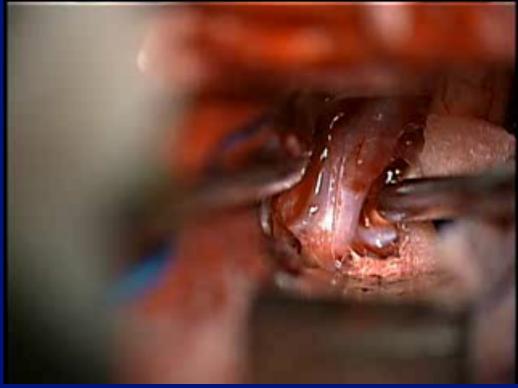
1- TO AVOID (AND TREAT) PREMATURE RUPTURE











2-"REMODELATION" OF NECK AND DOME



An right A1-A2 Big
Thrombectomy
Remodeling artery and
neck with microcoagulation
and fenestrated clips



3-To decrease tension inside the dome and neck



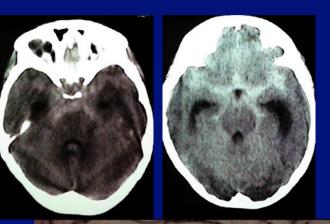




BIG ANEURYSM MIDDLE CEREBRAL ARTERY

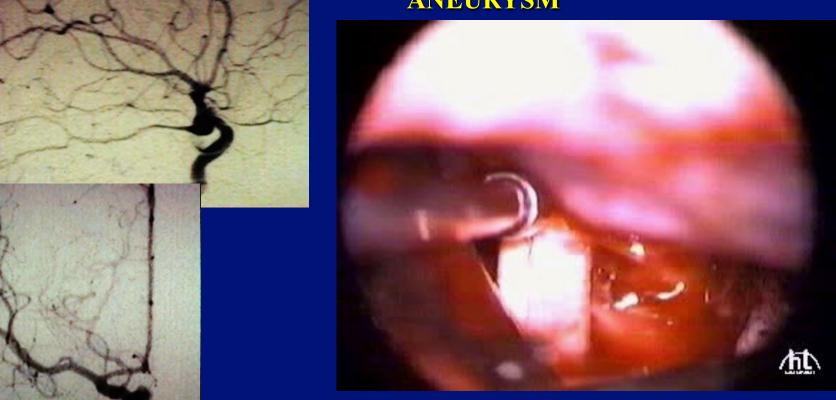
Wide aneurysm neck;
Temporary clipping
Neck walls become relaxed
Using the same clip, now
the clip is applied smoothly



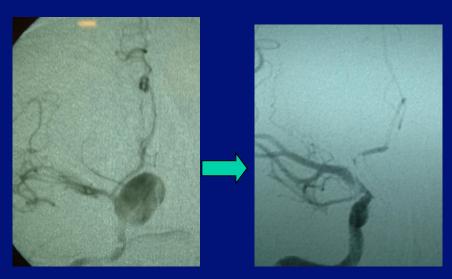


4-TO AVOID CLIP SLIDING

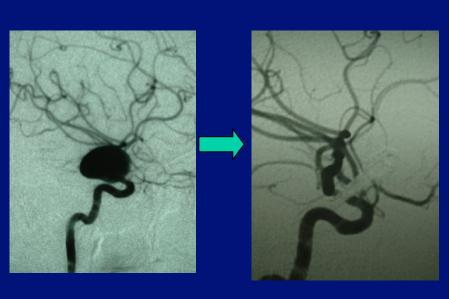
CAROTID - OPHTALMIC ANEURYSM



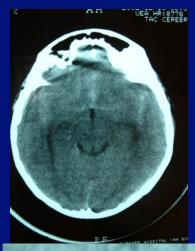
5-TO AVOID STENOSIS OF THE MAIN ARTERY



PARACLINOIDAL GIANT CEREBRAL ANEURYSM







6-TO FACILITATE NEIGHBOURING VISUALIZATION

A Com Aneurysm Anterior direction- Big



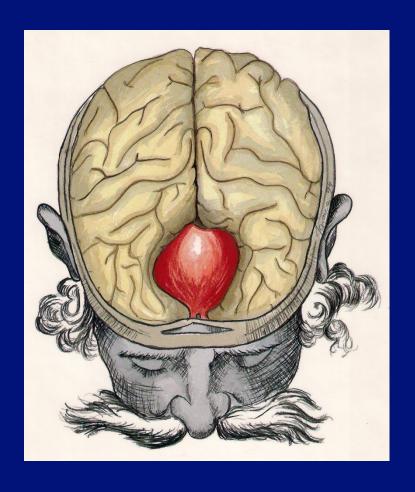




CEREBRAL PROTECTION DURING TEMPORARY CLIPPING IN SURGERY OF GIANT ANEURYSMS

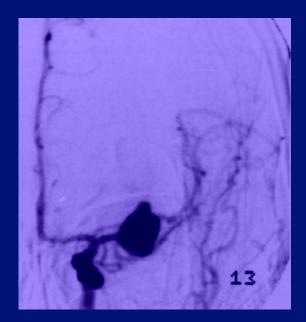
ADVANTAGES

- DECREASE TENSION INSIDE WALLS OF DOME
- AVOID PREMATURE RUPTURE
- TO OPEN THE DOME AND TAKE OFF FIBRIN CLOTS
- FACILITATE DISECTION OF EFERENT ARTERIES AND OTHER STRUCTURES
- TO IMPROVE VISUALIZATION
- TO TREAT A WIDE NECK



7-BIG OR GIANT ANEURYSMS

BIFURCATION MCA ANEURYSM – BIG, WITH THICK WALLS AND TENSE NECK







THANK YOU VERY MUCH !!!

Prof. Dr. Leónidas M. Quintana M.D.
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