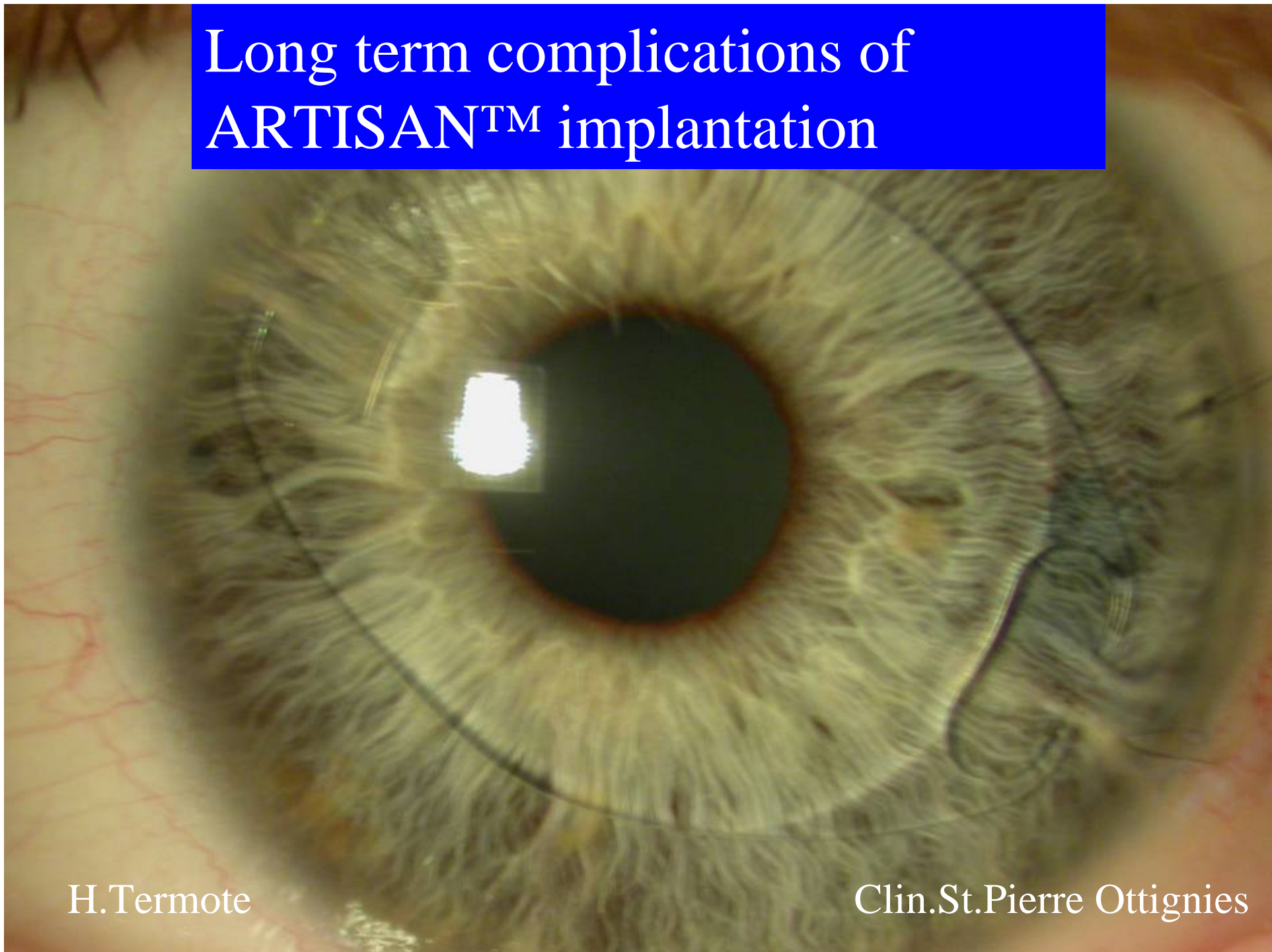


Long term complications of ARTISAN™ implantation



H.Termote

Clin.St.Pierre Ottignies

Population

- 263 eyes of 140 patients (87 F, 53 M)
- Operations between 1993 and 2003
- Mean follow up: 2.5 years
- 23 eyes LFFU \Rightarrow **n= 240 eyes**
- 190 myopic: 55 \emptyset 5mm, 135 \emptyset 6mm
- 63 hyperopic
- 6 toric, 4 flexible

Complications

Early: < 1 week

- hyphema (1)
- seidel (6)
- iris prolapse (1)
- pupillary block (6)
- malignant glaucoma (1)
- acute ocular hypertension (visco) (1)

Intermediate:

>1week<3months

- Steroid responders (40)
- Refractive surprises:
 - Undercorrection > 1 diopter (14)
 - Overcorrection > 1 diopter (2)
 - Residual or induced astigmatism >0.75 diopter (12)

Late complications: > 3months

- Cataracts (1 induced by IOL ?)
- Endothelial cell loss >25% (4)
- Spontaneous (1)/traumatic (2) IOL dislocation
- Dark adaptation problems (4)
- *Severe* halos, glare, monocular diplopia (0 after 1 year)

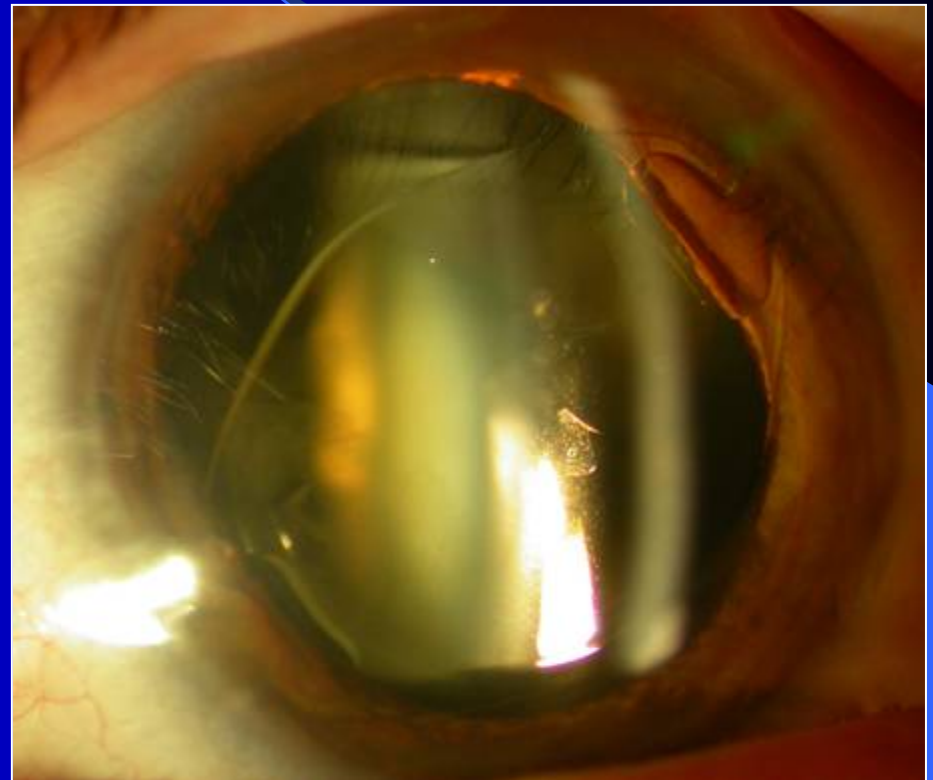
Cataract: case 1

- 45 years old female
- Uneventful surgery 5 years ago
- Monovision intolerance: early RK/AK enhancement
- Progressive nuclear sclerosis \Rightarrow phako
- Fellow eye: early nuclear sclerosis?

**INDUCED BY THE ARTISAN
IMPLANTATION ?**

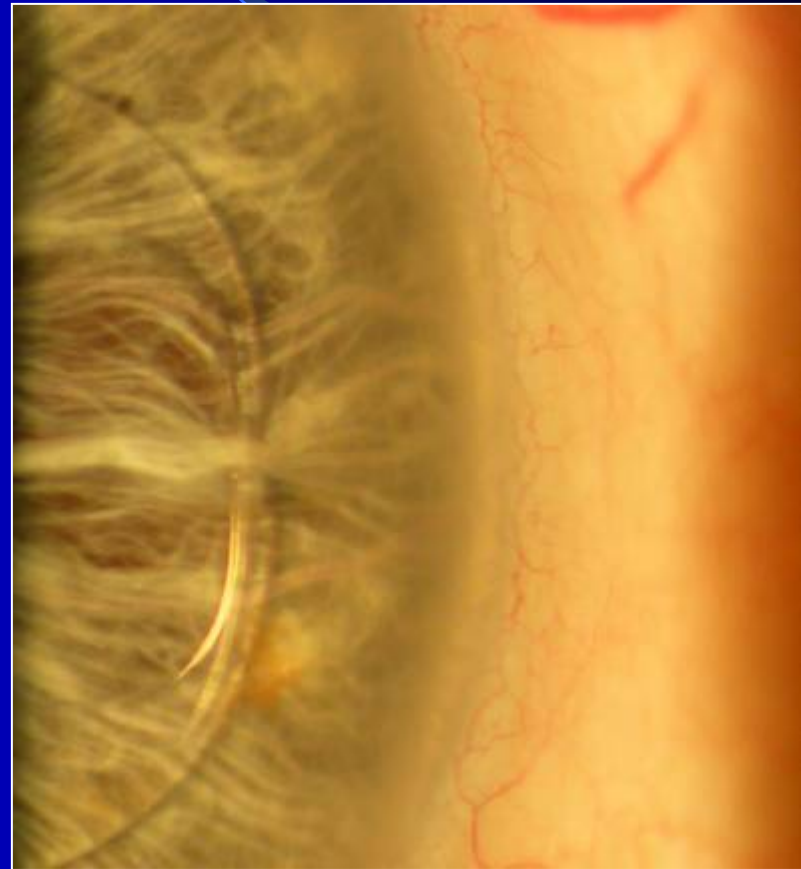
Cataract: case 2

- Retinal tear with vitreous haemorrhage 2 years after Artisan implantation \Rightarrow cryopexy
- Macular pucker \Rightarrow vitrectomy \Rightarrow cataract



Spontaneous disenclavation: 1 case

- 33 years old female
- Tiny enclavation on one side
- Sudden onset of blurred vision 6 years after artisan implantation
- Repositioned < 24h
- ECC: stable



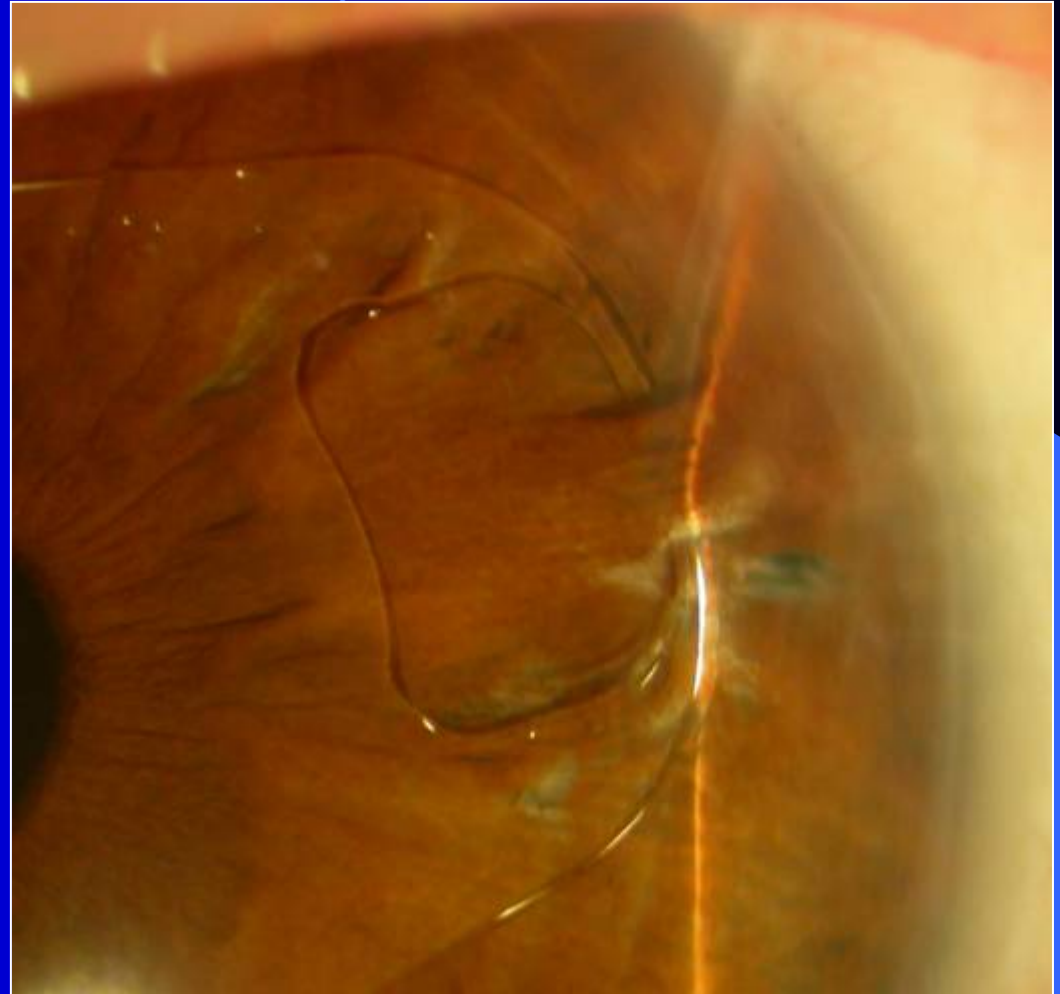
Traumatic disenclavation: 2 cases



- 1 metal rod, 1 squash ball into eye
- 2 and 4 years after surgery
- Repositioned < 48 h
- ECC unaltered

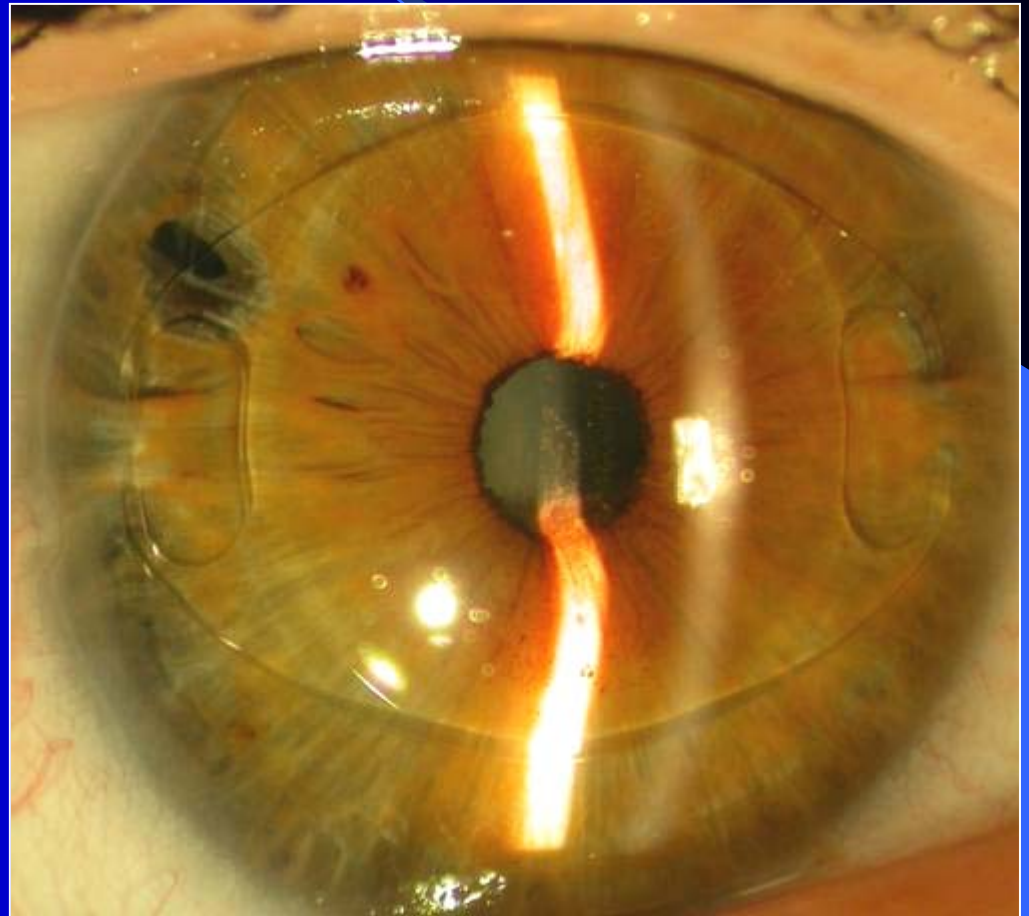
Anterior synechia: 2 cases

- Only hyperopes
- Between iris
« bridge » and
temporal wound



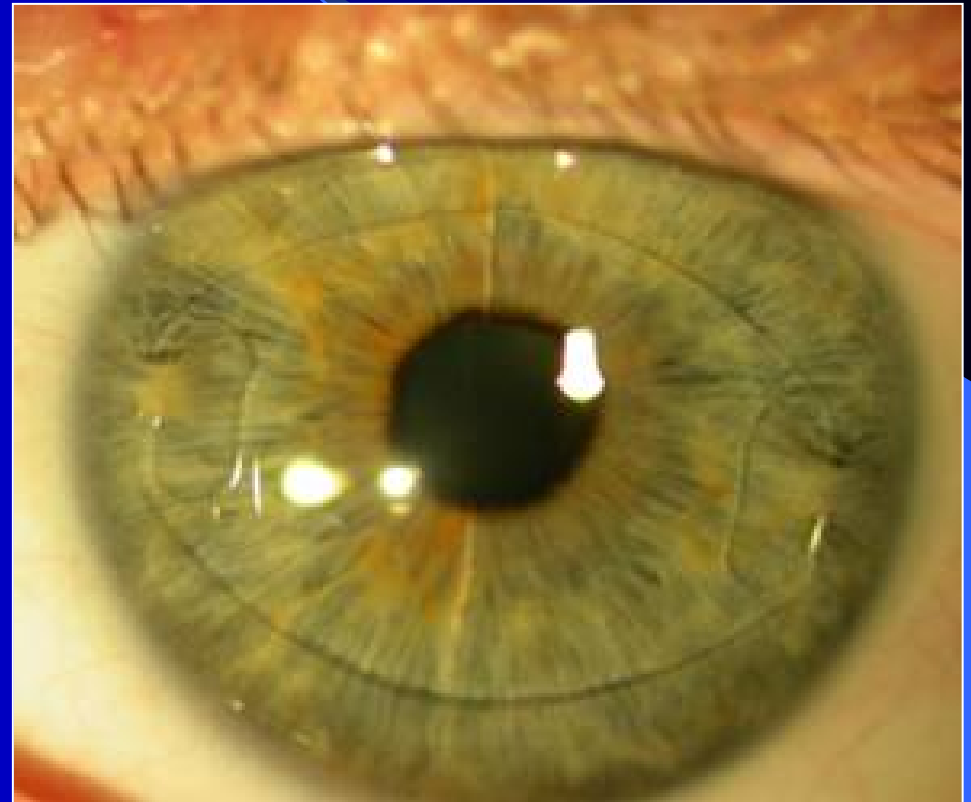
Posterior synechia: 1 case

- Appeared without any symptoms between two annual visits
- 2 years after implantation
- No uveitis workup done



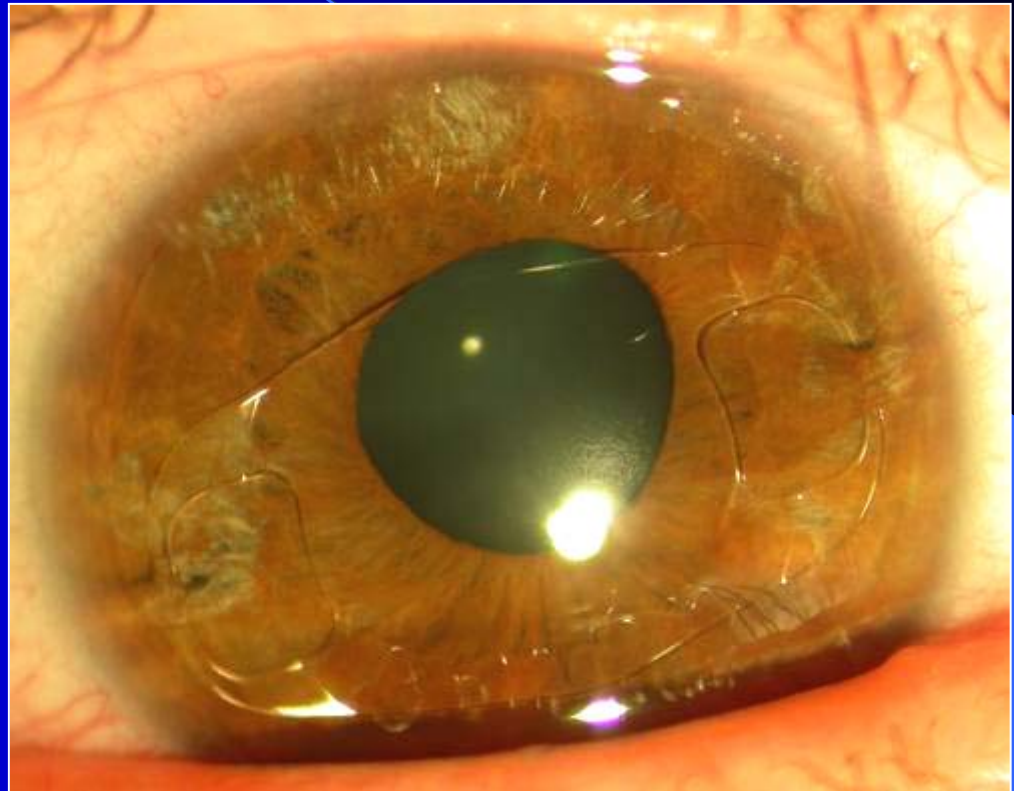
Subclinical decentrations

- No *spontaneous* visual complaints
(sometimes mild halos if asked for, only in myopes)
- Beware of scotopic pupils $> 6\text{mm}$
- $6\text{mm } \emptyset$ better than $5\text{mm } \emptyset$ (toric or $> -15.5\text{diopters}$)



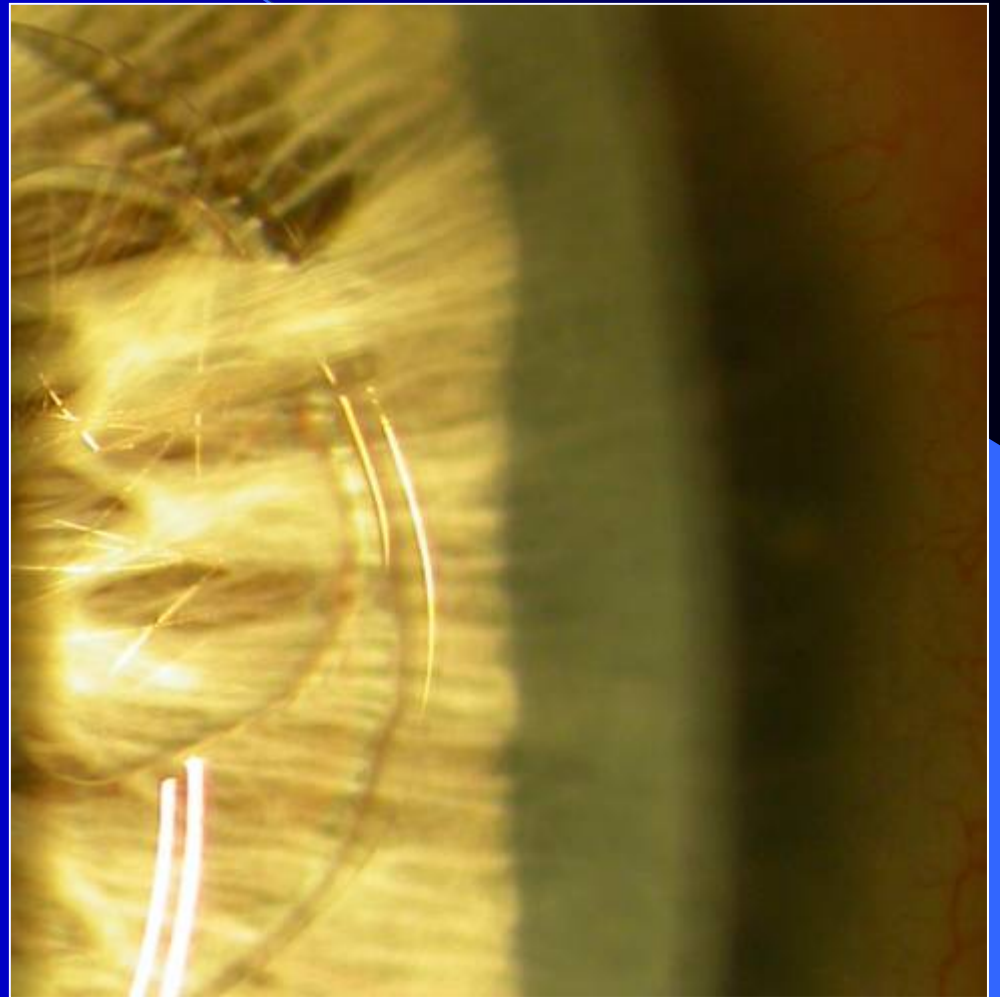
Severe iris atrophy: 3 cases

- Surgical trauma
(1 anesthesia problem)
- Postop pupillary block
(2 cases):
Urrets Zavalía
syndrome
= fixed, dilated pupil



« slit » enclavation: 5 cases

- Asymptomatic
- Tendency to inferior decentration

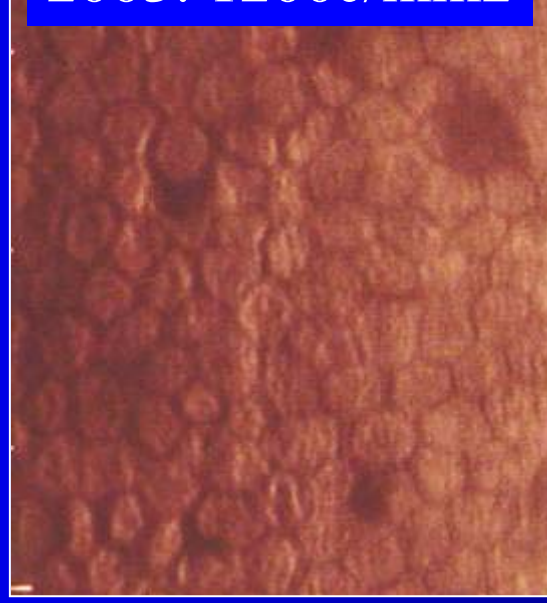


Severe late endothelial cell loss: case 1

2002: 1800c/mm²



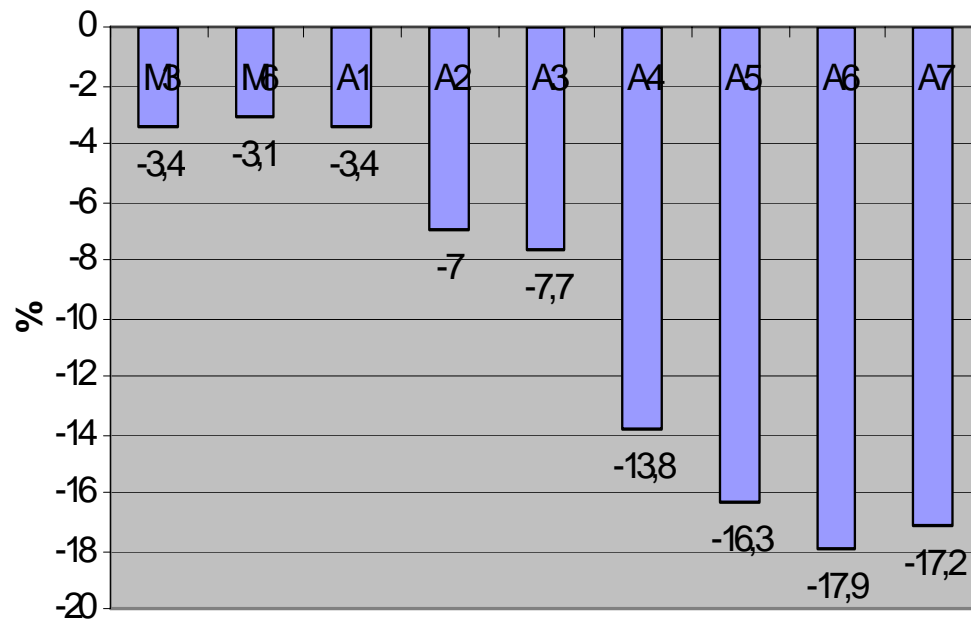
2003: 1200c/mm²



- 47 years old female
- Artisan Hyperopia in 1998
- Small anterior synechia
- Stable ECC until 2002
- Sudden drop in ECC in 2003
- Fellow eye : < drop
- Family history of guttata

Endothelial cell loss

Endothelial cell loss in %



- Noncontact counting unreliable (SD 15%)
- To be matched with « natural » cell decay: 0.5% to 1.5% per year
- To be watched on the long term(> 10 years)

Artiflex™: The lens of the future ?

Thank you for your attention !

H.Termote