



# ADVANCED MATURE BRUNESCENT NUCLEAR SCLEROTIC CATARACT EXTRACTION, OF A 75 Y.O LEGALLY BLIND PATIENT

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# Objective

- To be able to successfully deal with similar surgical cases.
- To acquire surgical assets and quick reflexes in order to perform specific difficult surgical procedures.

# Methods

A 75 y.o female patient arrives at our clinic's outpatient department with (almost) complete vision loss in both eyes. During the usual examination we found:

- **Right Eye VA:** Light Perception → white, oedematous, brunescant nuclear sclerotic cataract.
- **Left Eye VA:** Hand Movement → brunescant nuclear cataract.
- **IOP: Right Eye:** 17, **Left Eye:** 18 , no medication prescribed.
- Intraoperatively, because of anterior lens capsule stiffness leading to irregular shape capsulorhexis, we attempted to support the nucleus in the anterior chamber, in order to avoid dropped nuclei. Half the nucleus had previously been removed via phaco chop.

# Results

- The results were quite impressive, considering the surgical level of difficulty and the fact that the patient was previously legally blind in both eyes.
- The phaco method used during the phacoemulsification was “phaco chop”.
- Considering the procedure’s phacodynamics, we used the Stellaris system. The ultrasound statistics are the following: **U/S=33%** και **AP=26,27**.
- Post op medication administered:

fluoroquinolone eye drops: S:2x4,

cortisone eye drops: S:2x6,

NSAID eye drops: S:2x2,

hypertonic solution eye ointment: S:1x1

# Results

- In post op examination
- **1<sup>st</sup> day** Right Eye VA:  
Hand Movement → intense corneal edema, post-op anterior uveitis (+++).  
Sub-conjunctival injection was administered.
- **1<sup>st</sup> week** post op:  
Right Eye VA: 2-3/10 (non corrected) → mild corneal edema - second  
sub-conjunctival injection administered.
- **1 month** post op:  
Right Eye VA: 5-6/10 (non corrected) and 7-8/10 (pinhole).

# Conclusions

- The use of the reliable Stellaris phaco system, which uses a venture pump, in the hands of an experienced surgeon, can literally perform “miracles”. Phaco chop is a skill demanding phaco method, which should be used by experienced anterior segment surgeons.