

CATARACTS

- And how to get a satisfied patient

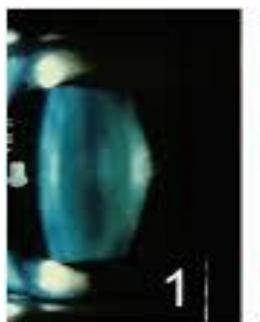
Katarina Bartuma, MD, PhD, FEBO

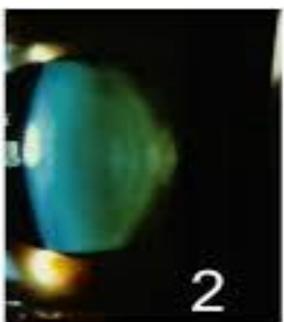
Eye Department, Kristianstad Central Hospital

Ögoncentrum Annedal, Lund

Introduction

- The lens undergoes physiologic changes throughout life
- Cataract: unclear lens that gives rise to visual impairment
- Most common cause of blindness in the world
- Most cost-effective surgery in the world





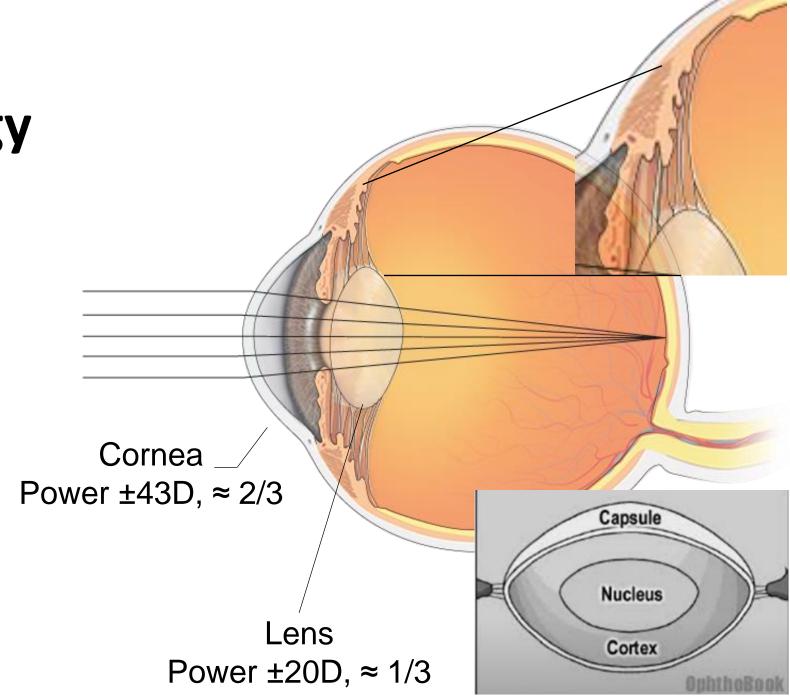






Lens physiology

- Zonules
- Lens capsule
- Lens nucleus
- Lens cortex
- Aims light on the macula

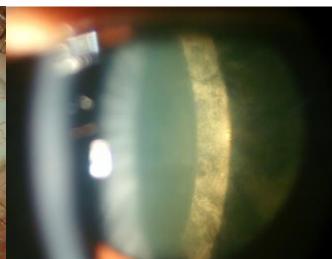


Different types of cataracts

- Cortical cataract 50%
- Nuclear cataract 30%
- Subcapsular cataract 20%







Symptoms

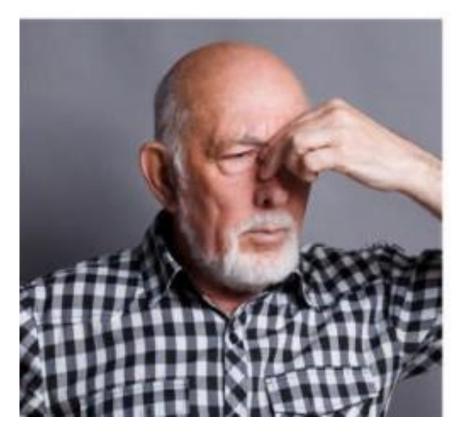
- Slow, gradual, clouded vision at a distance
- Glare, sensitivity to light
- Halos, starbursts around lights
- Developing myopia (nearsightedness)- change glasses often
- Monocular diplopia (double vision in one eye)
- Fading or yellowing of colors
- Painless



What causes a cataract

- Age
- UV-light
- Systemic and metabolic disease: Diabetes, atopic dermatitis
- Other eye diseases: uveitis, retinitis pigmentosa
- Side effects of medicines: cortisone
- Congenital: chromosomal aberrations, intrauterine infections, idiopathic
- Hereditary
- Smoking
- Trauma/ eye surgery
- Radiation

How to get a satisfied patient





Expectations, expectations, expectations!

How to get a satisfied patient

- Things to consider:
- Does the patient want to undergo surgery?
- What is the goal of surgery: increase vision, reduce pressure, improve insight
- Exceptions when the patient is "talked into" undergoing surgery: swelling cataract, pressure reducing surgery, improve insight
- Are there any other reasons for visual decrease

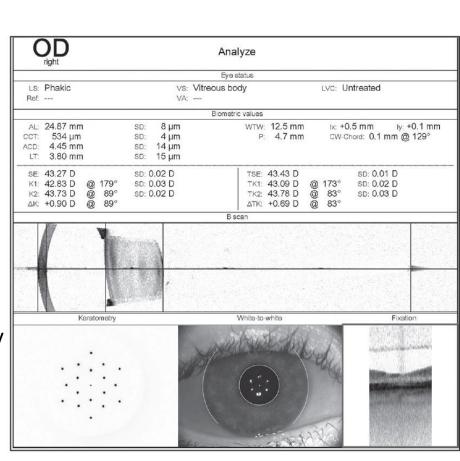
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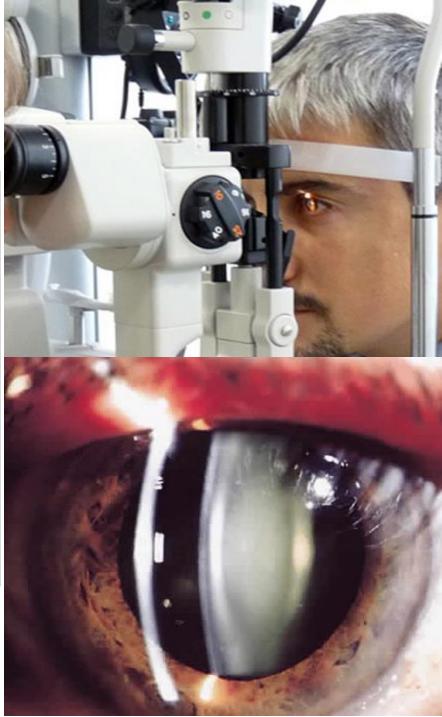
Patient history

- Describe visual problems
- Amblyopia
- Other eye diseases? (glaucoma, retinal disease, cystic macular oedema)
- Trauma?
- Other eye surgery? (refractive surgery, retinal surgery)
- When did the patient receive their first glasses
 - small child <5 years hyperopia
 - 5-16 years myopia
 - 16-20 years astigmatism
 - 50 years and above emmetropia
- Other systemic disease (diabetes, treatment with high levels of cortisone)
- Medication to consider: prostate medication, cordarone
- Can the patient cooperate? (need for anastesia, help with post op care)

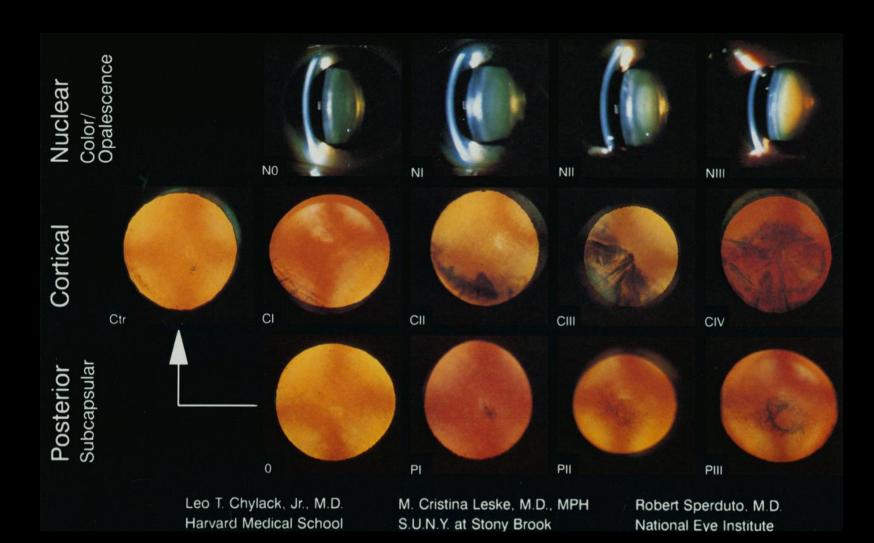
Diagnosis

- Visual acuity with and without glasses
- Glass prescription
- Refraction
- Slit-lamp biomicroscopy
- Biometry
- A-scan ultrasound
- Corneal imaging

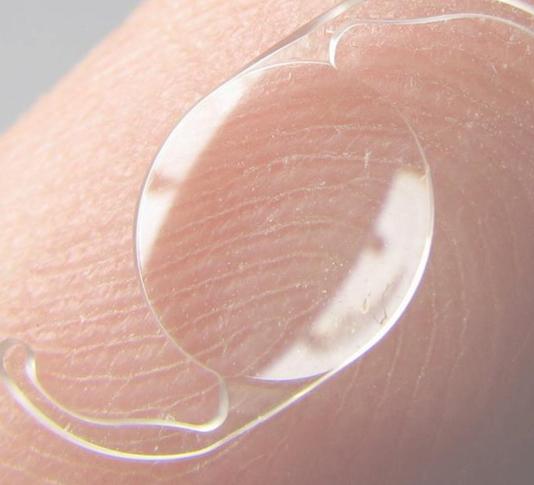




Grading of cataracts



Choosing the right IOL (intraocular lens)



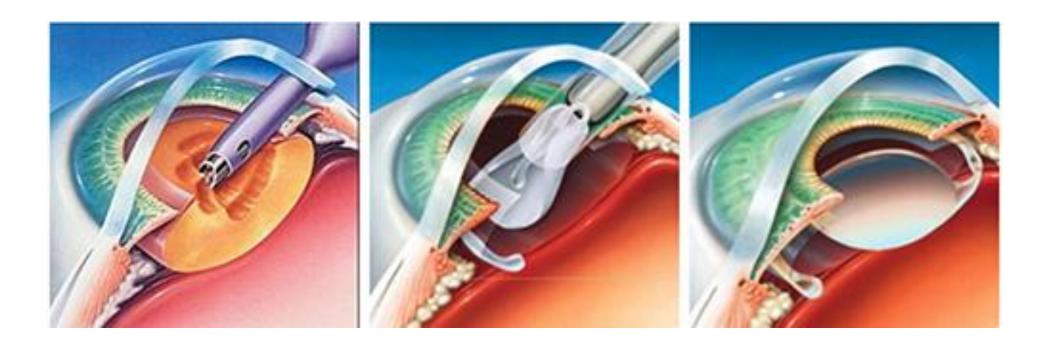
- Monofocal
- Monofocal with monovision
- Toric
- Extended depth-of-focus (EDOF)
- Multifocal/trifocal
- Phacic

Is the patient good for surgery

- 1. Is there a visually significant lens opacity, or other reasons to do surgery
- 2. Does the lens opacity account for the patients level of vision
- 3. Is the potential improvement enough to warrant the risks of surgery
- 4. Can the patient tolerate the surgery and be able to follow postoperative instructions and follow up care

Cataract surgery

- Film https://www.youtube.com/watch?v=PLSKmeAV43M

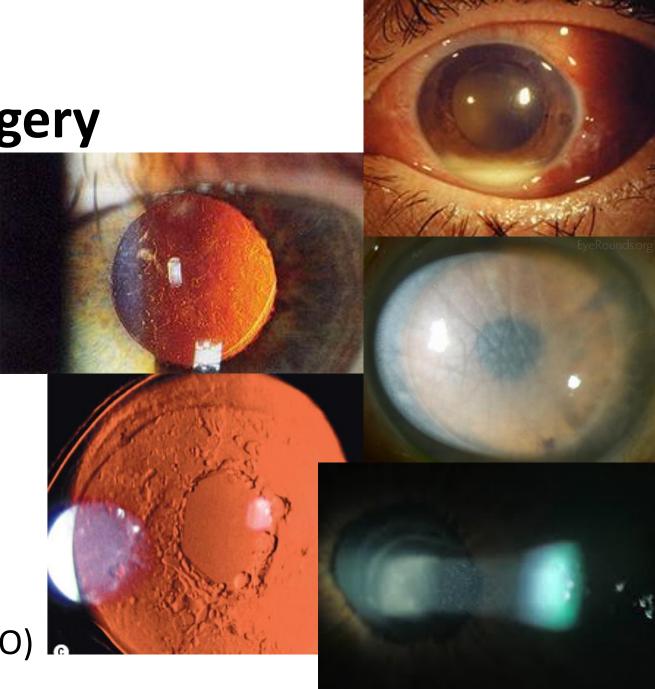


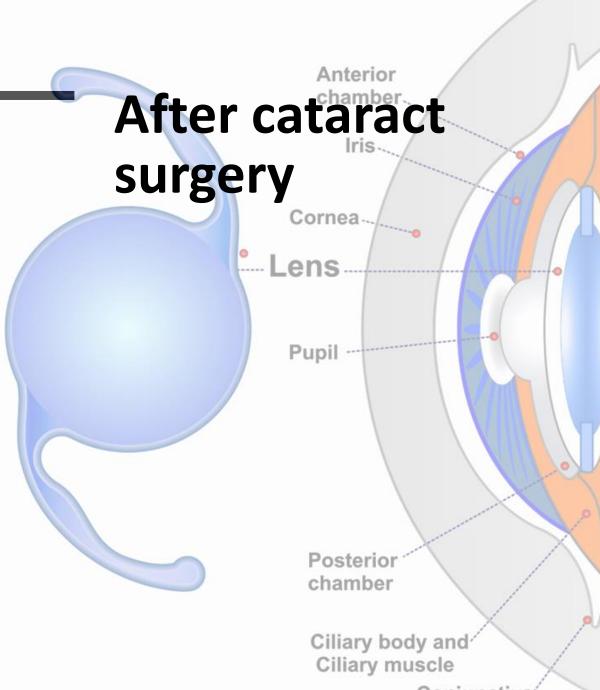
Complications of surgery

- Endophtalmitis
- Corneal oedema
- Postoperative inflammation
- Postoperative intraocular

increased pressure

- Cystic macular oedema
- Posterior capsular opacities (PCO)





- Right after cataract surgery- blinded and blurry vision
 - **Anti-inflammatory drops**
- Dexamethasone, Dicloabac, Nevanac

Optic Nerve

Follow up

Macula fovea

- 6 weeks following surgery the lens

position is stable

Retinal blood vessels

Vitreous body

THANK YOU

