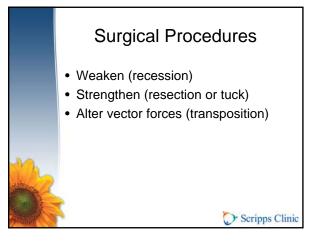
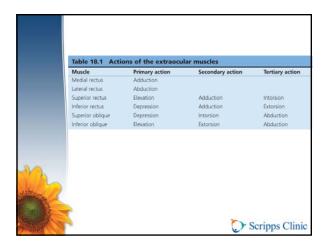


Insurance accepted indications for strabismus surgery

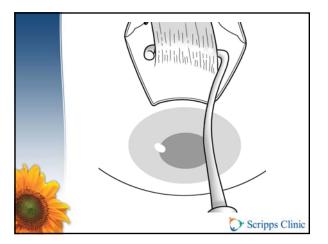
- Diplopia
- Asthenopia (eye strain)
- Any misalignment of the eyes that cannot be corrected non-surgically – this is where some prodding is occasionally required

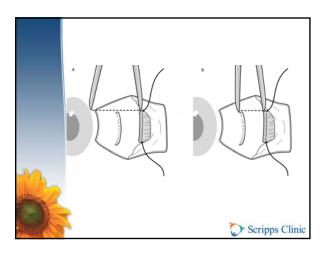
Scripps Clinic

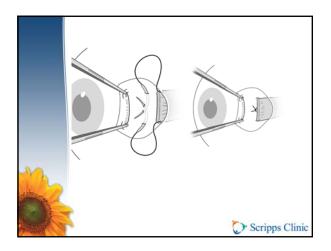




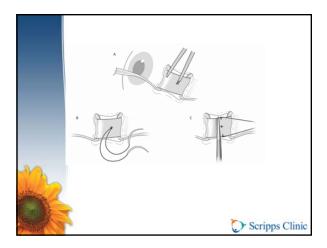


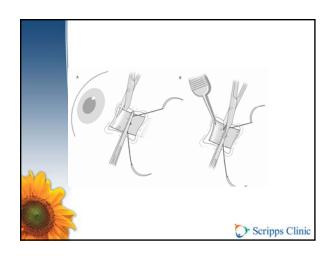


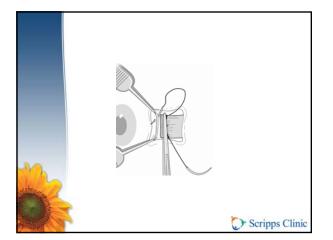


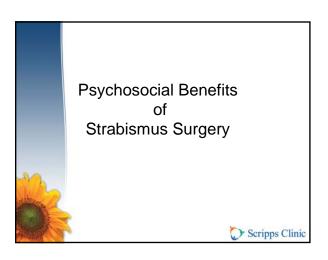


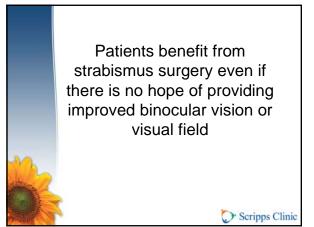


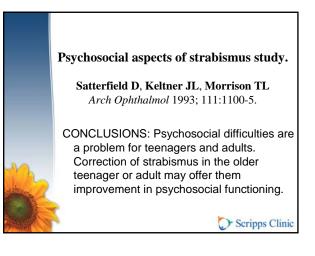


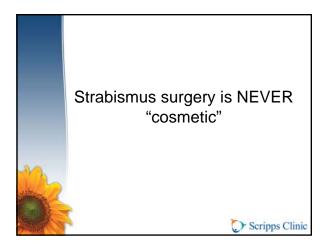


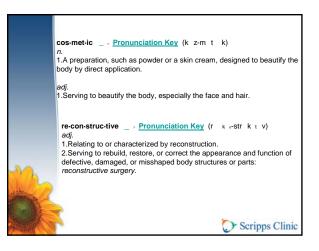


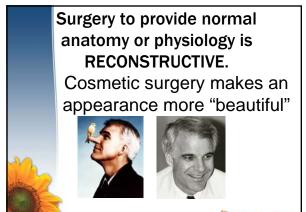




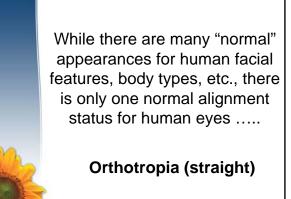




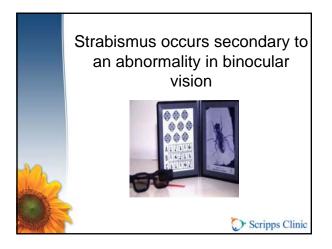


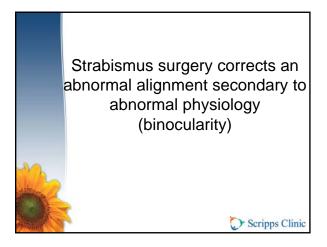


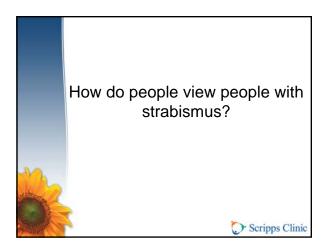


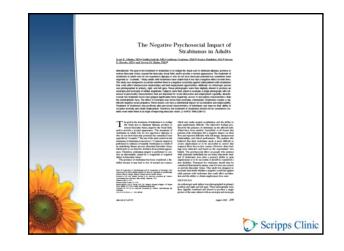


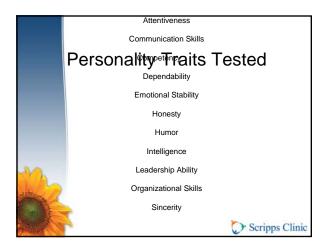
🕞 Scripps Clinic

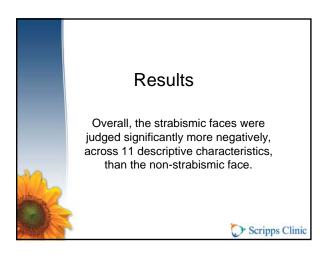










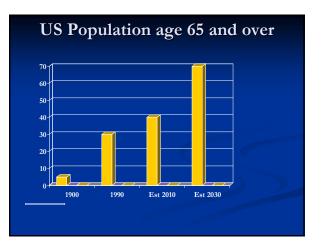


Nobody is too old, has too poor vision or has had too many strabismus surgeries to not be allowed to have straight eyes.

Scripps Clinic

Refractive IOL in Cataract Surgery

Jose Ivan Quiceno MD Scripps Clinic Medical Group



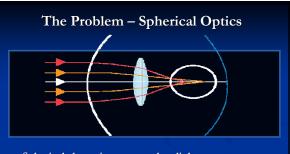
Do not underestimate the importance of good intermediate vision



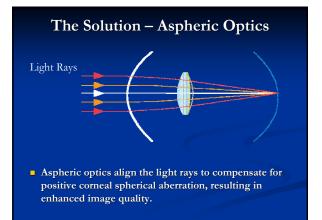
Custom Cataract Surgery

- Aspheric IOL
- Toric IOL
- Multifocal IOL
- Accommodative IOL





Spherical aberration occurs when light rays are overrefracted at the periphery of a lens system, resulting in a region of defocused light which can decrease image quality.



Ocular spherical aberration

- Anterior corneal positive SA is +0.275
- Young (19y/o) crystalline lens has a negative SA -0.275
- Older eyes crystalline lens increases + SA
- Aging (72y/o) SA of the crystalline lens is +0.15

Design Objective

- Design considerations for the IOL:
 - Induce negative Spherical Aberrations with the lens to compensate for positive corneal Spherical Aberrations

Correction of Spherical Aberrations

- SN60WF: -0.200 negative spherical aberration
- ZA9003: -0.275 negative spherical aberration
- LI61AO: Zero spherical aberration

Toric IOL

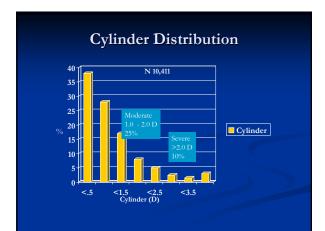
Quality of vision is deteriorated considerably by astigmatism.



No astigmatism



2.0 D astigmatism





Toric IOL

Design Characteristics

Treatment Options for Astigmatism

Ideal Treatment

Precise and Accurate



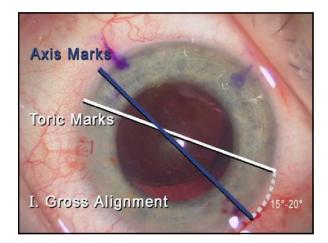
Posterior toricity
Toric axis marks
AcrySof® Natural Single-Piece platform
Dimensions
Overall length: 13.0 mm
Optic diameter: 6.0 mm
Delivery
Monarch II or III Injector
C Cartridge

Design

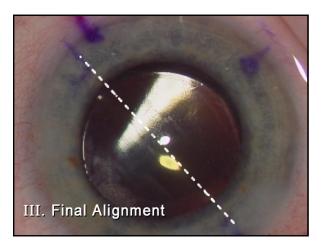
- Predictable Outcomes
- Permanent
- Safe and Convenient

Cylinder Powers SN60T3-T5

Toric IOL Model	Cylinder Power	Cylinder Power
	IOL plane	Corneal Plane
SN60T3	1.50	1.03
SN60T4	2.25	1.55
SN60T5	3.00	2.06



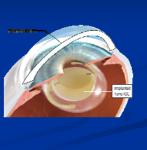




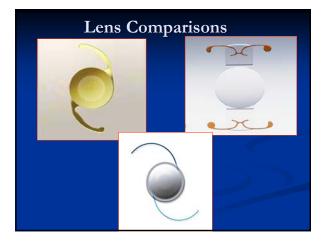
IOL Alignment

3 Step Procedure:

- I. Gross alignment
- II. Removal of OVD
- III. Final alignment



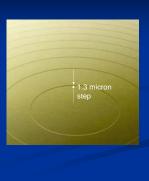
Intraocular lenses for Presbyopia

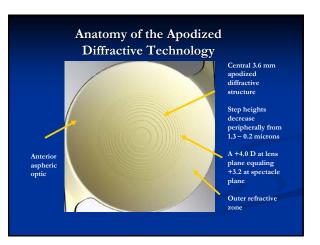


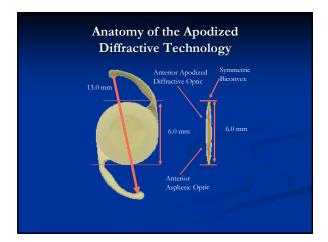


Apodization

- Gradual reduction or blending of the diffractive step heights.
- Optimally manages light energy delivered to the retina as it distributes the appropriate amount of light to near and distant focal points, regardless of the lighting situation.
- Designed to improve image quality





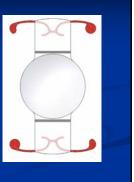


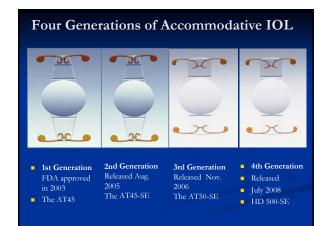
SN6AD1 Design Characteristics

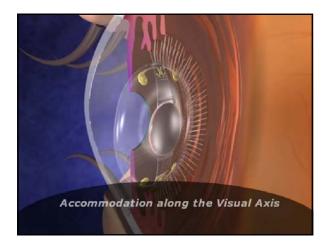
- Utilizes existing IQ ReSTOR[®] IOL +4.0 D platform with identical asphericity, energy distribution profile, and shape factor
- Modified add power from +4.0 D to +3.0 D
 - 9 diffractive steps vs. 12 diffractive steps
 - Slightly wider step spacing to modify the add power

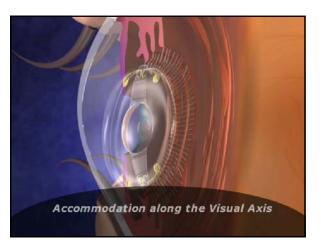
Accommodative Lens

- "accommodative" lens technology proved to be safe & effective by the Food & Drug Administration
- Uses the natural focusing ability of the eye.
- Provides a single focal point throughout a full range or vision from far to near & all images in between.









Treatment of Presbyopia after Cataract Surgery

- Monovision (aspheric IOL)
- Blended vision (aspheric IOL)
- Monovision with Toric IOL
- Diffractive Apodized Multifocal
- Refractive multifocal
- Pseudo accommodative IOL

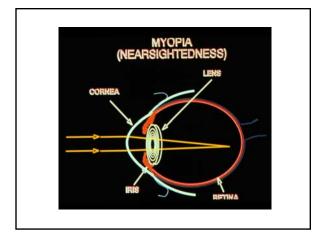
Summary

- Refractive intraocular lens is a good option for treatment of presbyopia after cataract surgery.
- Patient selection is key.
- Avoid patients with pre-existing eye disease

Division of Ophthalmology

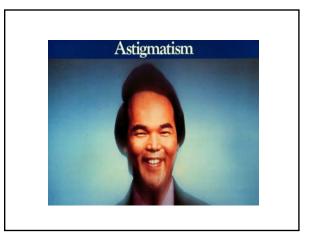
- Cataract
- Retina
- Cornea
- Oculoplastics
- Pediatric Ophthalmology
- Torrey Pines
- Rancho Bernardo
- Carmel Valley
- Encinitas
- Mission Valley
- Rancho San Diego

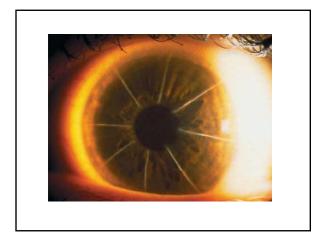
Laser Vision Correction at Scripps Clinic

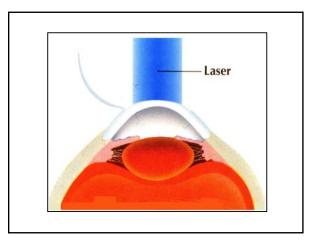






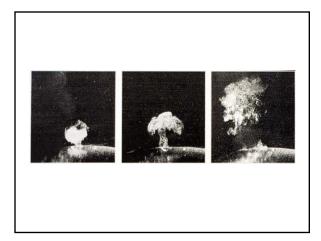


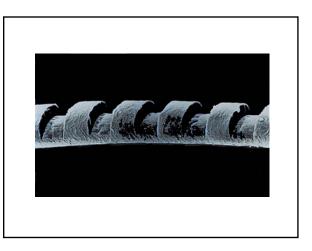






Excimer Laser Parameters









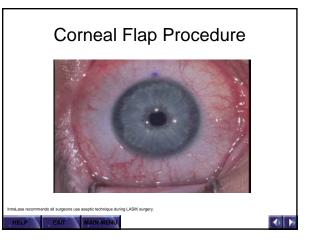
IntraLase

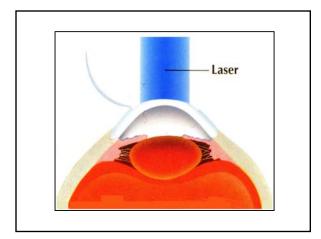
Gas: Neodymium

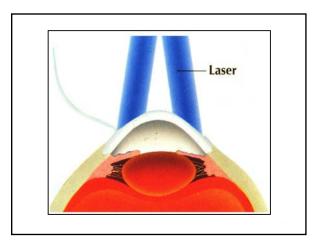
Wavelength: 1053 nm

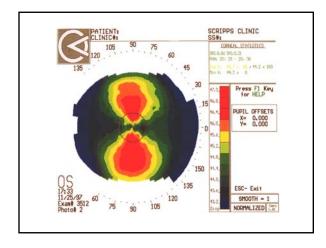
Speed: 60 kHz

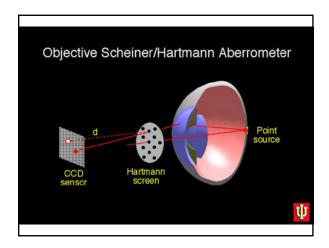
Duration: 600-800 femtoseconds (10⁻¹⁵ sec)

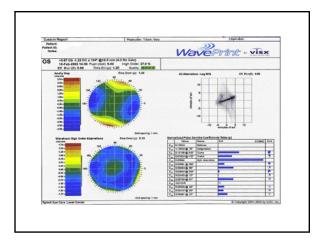


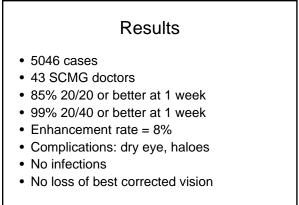








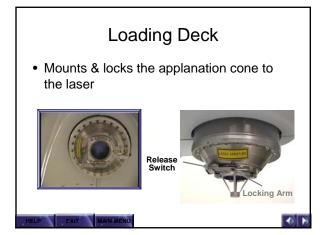


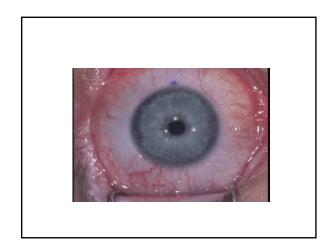


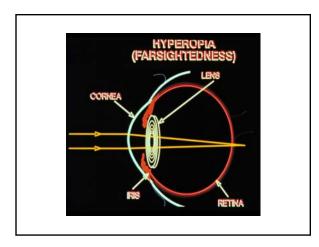
Next Frontier

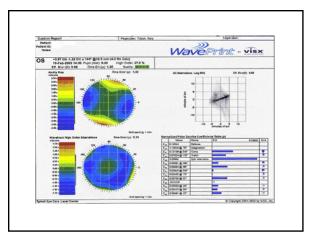
- Presbyopia
- Multifocal corrections
- Keratoconus

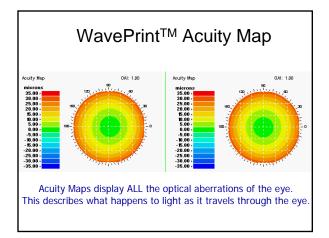
Thank You

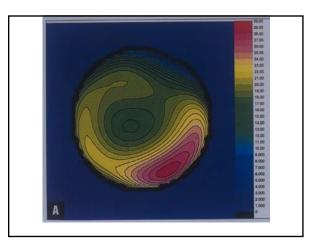




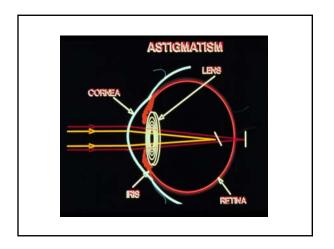


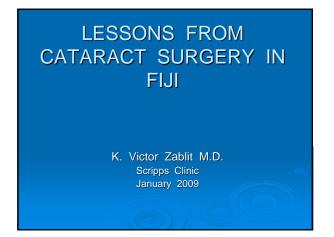






Mitchell H. Friedlaender, M.D. Scripps Clinic/Scripps Green Hospital Grand Rounds Wednesday, Mar. 18, 2009









Need

- > Population of over 1 million people
- > One public hospital in the capital provides cataract surgery
- > Cost of private institution is prohibitive

Barriers Which Keep Patients from Getting Cataract Surgery in Developing Countries

- > Cost of surgery
- > Distance to hospital
- > Cultural and social constraints
- Awareness of surgery or trust in outcome
- > Visual needs differ

SPONSOR

- > Scripps Health-Fiji Alliance Program
- Loloma Foundation

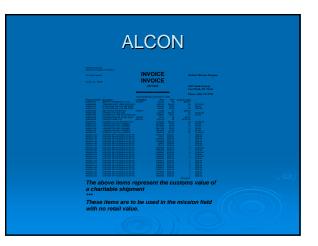
FIJI Eye Team January 2009

- > P. Lance Hendricks M.D. (Anesthesia)
- > Ellen Mendez (Ophthalmology RN)
- > Tim Mendez (surgical Ophthalmic tech)
- > Mone' Young (Ophthalmic assistant)
- > K. Victor Zablit M.D. (Ophthalmologist)

Preparations

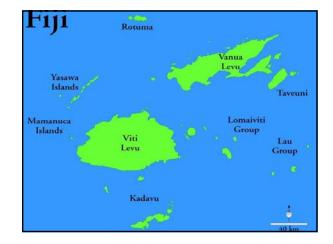
- > List of supplies
- > Manual IA chosen vs. Phaco machine
- Contacting donors
- > Equipment : International Relief Teams





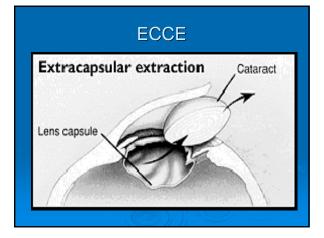
PLAN

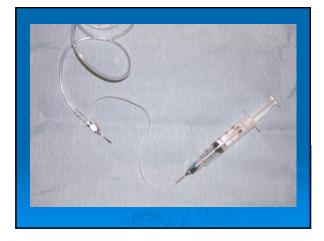
- Leave on a Saturday night from LAX, get to Fiji (Nadi Airport) Monday morning.
- > Take the boat (5 hours) to Yaqeta island ,
- > Start seeing patients Monday pm
- > Tuesday morning: start surgeries
- > Do 40-45 cases (8-9 a day)
- > Fly back Monday



Simcoe Manual I/A

- > Same one used for all cases
- K 50 with each case
- > One BSS bottle 500cc per day
- > Same IV tubing per day





Packing

- ≻22 boxes
- Supplies for Fifty cases
- > 50 IOL (5 A/C)
- > 24 BSS 500cc bottles
- > Equipment



Change of Plans

- "Worst storm in 50 years", flooded the western area .
- > The main hospital on the eastern side offered to host us.





Location

- > Colonial War Hospital: 450 bed hospital and the main referral hospital for the country, and the South Pacific.
- Suva: the capital.





Clinic

- > 60 patients seen: most waiting for surgery by local ophthalmologist.
- Acuity: Light Perception Hand Motion
 Most patients 50-60 years old





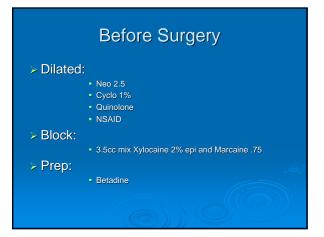
White Cataracts



Pre-Op Evaluation

- ➤ History
- > Blood pressure measurement
- > Auscultation of heart and lungs
- > Scheduling
- ⊳ A scan
- > Instructions re: surgery





Anesthesia

► IV Cath

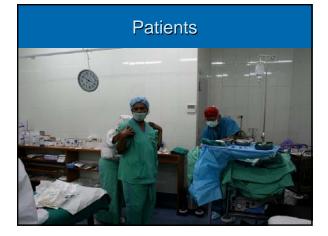
- Monitors for BP ECG
- > Oximeter
- > Few: Propofol 40-60mg

Local Anesthesia

- Retrobulbar Block using 3.5 cc of 50/50 marcaine 0.75% and Lidocaine 2%
- > The first day patients had some IV sedation .
- > No sedation the following days.

Operations

- > Aseptic technique
- > Betadine scrub
- > Gowns vs. sleeves
- > 4-0 silk, 10mm incision, 6mm (<45y),8-0 vicryl safety suture
- > Viscoelastic, 10-0 nylon closure
- > Ancef
- > Patch with Zymar/Tobradex ointment



















Immediate Post-Op

- > Patch 24 hours
- Acetaminophen 500mg four tablets for pain prn
- Diamox 250mg tid for 3 days
- Post-Op instructions in English, Fijian, and Indian
- > Appointment next day

First Day Post-Op

- > Acuity
- > IOP
- > SLE exam
- ≻ Kit:
- . Quinolone/Prednisolone Acetate qid
- Shield at night
- Protective sunglasses
- > Reviewed instructions with family
- > Follow up one week with eye clinic







Results

- > 35 cases done.
- > 1 Patient required vitrectomy
- > Most in the 20/200 range, first day.
- > Best 20/40, Worst CF
- > I patient LP (retinal detachment)
- > 1 Hyphema
- > No Endophthalmitis

Lessons

- > Profoundly satisfying
- Start working on supplies and donations
 4 months prior
- Educating the locals? Residency program at South Pacific University
- > Review AB use
- ? 2 teams using the equipment : 2 shifts, or consecutive trips
- > Give more consideration to the weather