Surgery for defects of the iris

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Disclosure: Samuel Masket MD
• Consultant Fees - Alcon Laboratories
• Consultant Fees - PowerVision
• Consultant Fees - Ocular Therapeutics
• Royalties - Haag-Streit
• Research Grant - Accutome
• Licensing Agreement - Morcher

“Iris Defects”

Loss of Iris Tissue or function can have devastating effects on quality of vision, glare, cosmesis, and general quality of life.

Some cases are amenable for non-surgical means, some can be sutured, while others require an artificial iris.
"Iris Defects"

Loss of Iris Tissue or function can have devastating effects on quality of vision, glare, cosmesis, and general quality of life
No Artificial Iris Devices are US FDA Approved
Humanoptics Custom Iris is Limited to Investigational Use Only
No Other Devices are Available in the US

HUMANOPTICS SILICONE CUSTOM ARTIFICIAL IRIS – FDA-IDE

“HARNESSING” THE HUMANOPTICS IRIS
• Bag Fixation
• Sulcus Fixation
• Sewn to IOL
• Sewn to Sclera
• Sewn to Native Iris Remnant
PERFORATING INJURY

- 49 y/o woman sustained perforating corneal injury to LE in 1980
- RE – normal all aspects
- LE – CF VA
“HARNESSING” THE HUMANOPTICS IRIS

- Bag Fixation
- **Sulcus Fixation**
- Sewn to IOL
- Sewn to Sclera
- Sewn to Native Iris Remnant
ICE – SP: KPE/PKP/SHUNT

“HARNESSING” THE HUMANOPTICS IRIS

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FISH HOOK INJURY AGE 5

FISH HOOK INJURY AGE 5
Fish Hook Injury age 5

“Harnessing” the Humanoptics Iris

- Bag Fixation
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CONGENITAL ANIRIDIA

- Mutation PAX6 Gene – neuro-ectodermal abnormalities
- Wilm’s Tumor 1:70
- Aniridia (rudimentary stump)
- Photosensitivity, nystagmus
- Corneal stem cell deficiency with neovascularization, haze ulceration, and scarring
- Cortical, PSC, polar cataracts, THIN FRIABLE CAPSULE
- Zonulopathy
- Glaucoma- Aniridic Fibrosis Syndrome
- Foveal Hypoplasia or Aplasia – reduced visual acuity

29 Y/O MALE – CONGENITAL ANIRIDIA - HUMANOPTICS ARTIFICIAL IRIS LE

CONGENITAL ANIRIDIA