ARTISAN LENS IN PEDIATRIC

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WHAT ARE THE OPTIONS OF IOL IMPLANTATION IN ABSENT CAPSULAR SUPPORT ?

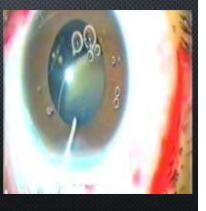
-SUBLUXATED AND DISLOCATED LENSES -IMPLANTATION FOLLOWING TOTAL LENSECTOMY -AFTER TRAUMA WITH LOST CAPSULE

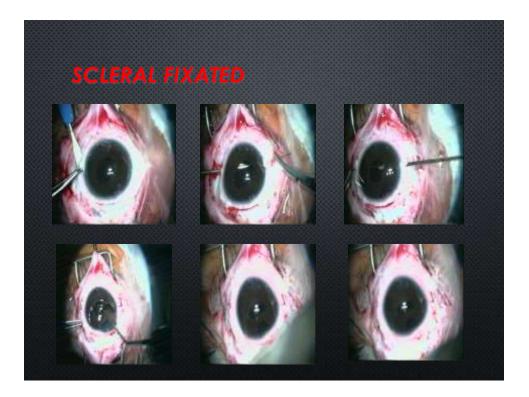
WHAT ARE THE AVAILABLE SURGICA OPTIONS IN THIS SITUATIONS ?

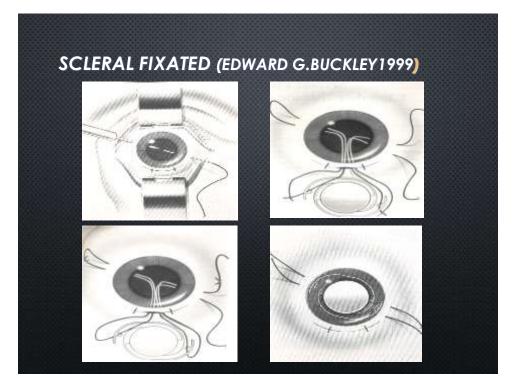
- ANGLE SUPPORTED ACIOLS.
- IRIS SUTURED IOLS
- SUTURED SCLERAL-FIXATED IOL.
- FIBRIN GLUE-ASSISTED POSTERIOR CHAMBER IOL.
- IRIS CLAW IOLS.

SUTURED SCLERAL-fixated

- SCLERAL-FIXATED IOLS ARE CONSIDERED A MORE ACCEPTABLE TECHNIQUE FOR POSTERIOR CHAMBER IOLS, IN THE ABSENCE OF CAPSULAR SUPPORT
- CONJUNCTIVAL AND SCLERAL EROSION OF SCLERAL SUTURE
- INFECTION OR ENDOPHTHALMITIS .
- IOL TILT.
- DISLOCATION OF THE LENS IN THE VITREOUS
 CAVITY.
- VITREOUS OR CILIARY BODY HEMORRHAGE .
- SECONDARY GLAUCOMA.

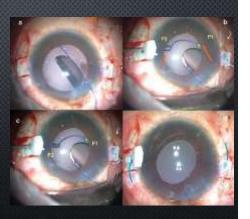






SUTURELESS SCLERAL FIXATIO POSTERIOR CHAMBER IOL

 SUTURE LESS INTRA-SCLERAL HAPTIC FIXATION OF A THREE-PIECE POSTERIOR CHAMBER IOL IN THE CILIARY SULCUS IN EYES WITH NO CAPSULE SUPPORT.





CRITERIA		ISAN LEI			
Optic diameter	5.00 mm		~7	~	
Aver all diameter	8,5 mm			1	
Material	prespex		\leq		2
A constant	115.00				
Total thickness	0.76 mm				
Weight	8 mg				
Shape	Concave- convex lens				

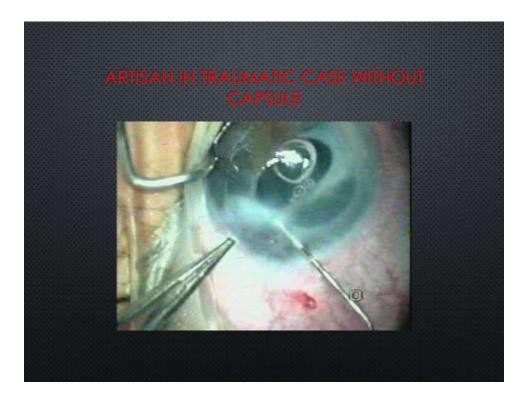
- Available Power : + 2.00 + 30 D
- Special small sizes for infants are available with optic diameter of 4.4 mm and over-all diameter of 6.5 mm



SURGICAL TECHNIQU

- A 5MM OPTIC ARTISAN APHAKIA IOL WITH A TOTAL DIAMETER OF 8.5 MM WAS IMPLANTED THROUGH A LIMBAL CORNEO-SCLERAL INCISION (5.2 MM)
- A SPECIAL (OPHTEC) FORCEPS OR BENT NEEDLE WAS USED TO ENCLAVATE THE IRIS IN THE CLAWS OF THE LENS THROUGH TWO PARACENESES OPENINGS MADE FOR THIS PURPOSE.
- OCULAR VISCO-ELASTIC DEVICE (OVD) WAS USED TO PROTECT THE CORNEAL ENDOTHEINIM
- A PERIPHERAL IRIDECTOMY WAS DONE TO GUARD AGAINST PUPILLARY BLOCK.
- Wound closure was done by 10/0 sutures







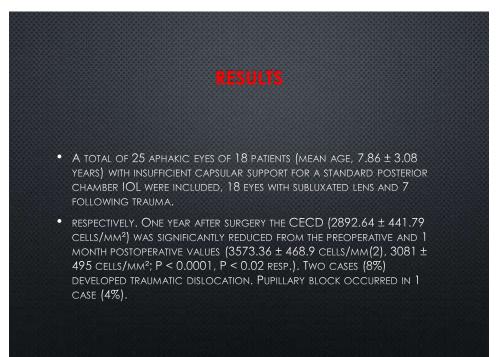
EVALUATION OF ARTISAN APHAKIC INTRAOCULAR LENS IN CASES OF PEDIATRIC APHAKIA WITH INSUFFICIENT CAPSULAR SUPPORT

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M.SALAMA, AND ADEL ALEIELDIN





CONCLUSION

- ARTISAN lens is a favorable option for correction of pediatric aphakia in absence of capsular support due to :
- Easy to implant(short learning curve).
- Free pupillary dilatation and constriction.
- low incidence of UGH syndrome.
- Visual outcomes of Artisan aphakic IOLs are comparable to, if not better than, alternative IOL types .

CONCLUSION

- Artisan IOL is safe on the corneal endothelium. However, prospective studies of the long term effect of the claw lenses on the corneal endothelium is very important.
- Other recent alternatives such as ;sutureless glued scleral fixation IOL and PC iris sutured IOLs are recommended to be studied and compared with the Artisan claw lens in pediatric age groups