ARTIFLEX® Toric PIOL | European Multicenter Study

A prospective multicenter study has been conducted to evaluate efficacy and safety of the ARTIFLEX® Toric PIOL. Between September 2007 and April 2009, 132 eyes were enrolled in the study at 7 investigation sites. The results of the 115 eyes that met with the inclusion criteria will be published, and are presented here.

Study Group

Netherlands: B. Christiaans, M. Luger, R. Nuijts; Belgium: C. Budo; Germany: H. B. Dick; Portugal: A. Marinho; Spain: J. L. Güell.

Study Inclusion Criteria

- Stable myopia with astigmatism
- Preoperative endothelial cell count stratified by age:

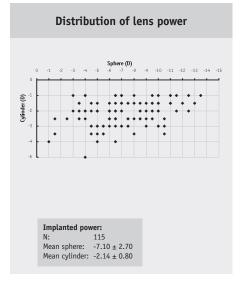
21 to 25 years of age 2800 cells/mm²; 26 to 30 years of age 2650 cells/mm²; 31 to 35 years of age 2400 cells/mm²; 36 to 45 years of age 2200 cells/mm²; > 45 years of age 2000 cells/mm².

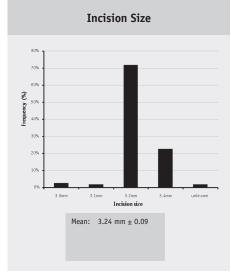
- Anterior chamber depth ≥ 3.2 mm from epithelium
- Scotopic pupil size ≤ 7.0 mm
- Preoperative intraocular pressure ≤ 21 mmHg
- Age between 18 and 60 at the time of the surgery

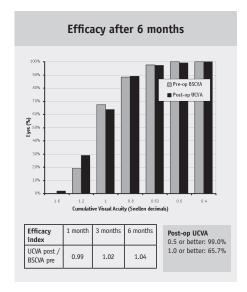
DEMOGRAPHICS

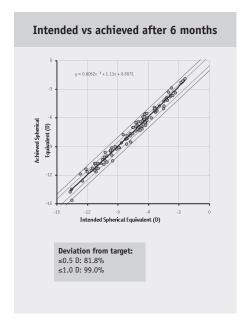
Eyes (N)	115
Age @ OP	37.7 years ± 8.0 (range 20 to 54)
Gender	67.1% female 32.9% male
Eye	52.2% right 47.8% left
ACD	3.65 mm ± 0.25 (range 3.20 to 4.28)
Axial length	26.20 mm ± 1.24 (range 23.53 to 29.32)
Pupil size (scotopic)	5.70 mm ± 0.97 (range 3.13 to 7.00)
Spherical equivalent	-7.53 D ± 2.70 (range -1.88 to -14.00)
Cylinder	2.18 D ± 0.79 (range 0.75 to 4.50)
Incision size	3.24 mm ± 0.09 (range 3.0 to 3.4)

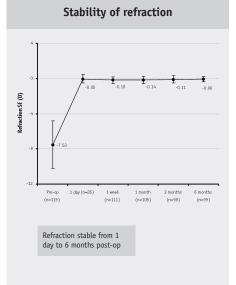
FIGURES

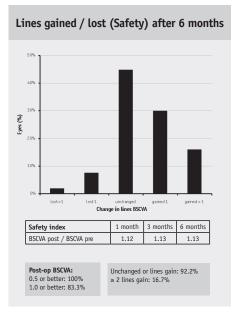


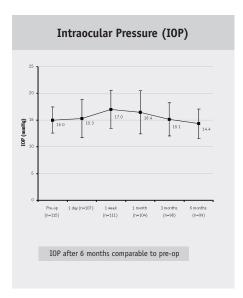


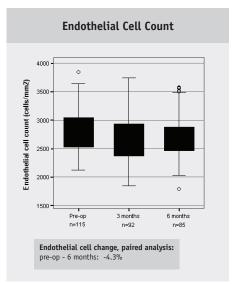


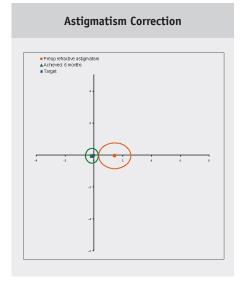


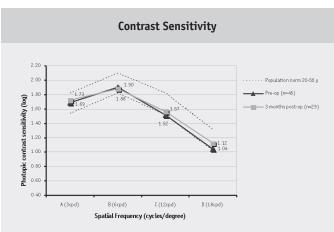












Persistant complications after 6 months:

109 Glare 7.3% Halos 4.6% Pigment 15.6% Non-pigment 12.8% Synechia (cumulative) 4.3% Oval pupil 2.8% Raised IOP 0% SSI 0% 0ther 1.8%