ARTIFLEX® Myopia PIOL | European Multicenter Study

The European clinical investigation of the ARTIFLEX® design Myopia began in January 2003. Twenty-three investigator sites have participated in the prospective nonrandomized study. The enrollment phase continued till September 2006, after which 1000 ARTIFLEX® lenses were implanted. All study subjects were monitored for a period of two years to determine the safety and efficacy of the device.

The data of the first 350 implantations meeting the inclusion criteria are published in Ophthalmology*, and presented here.

Study Group

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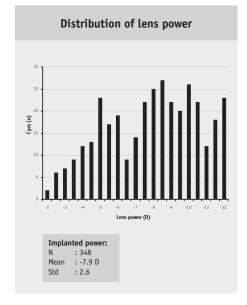
Study Inclusion Criteria

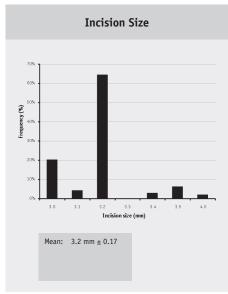
- Axial myopia requiring correction from -2.0 D to -12.0 D
- Preoperative endothelial cell count ≥ 2000 cells / mm²
- Anterior chamber depth ≥ 3.2 mm from epithelium
- Scotopic pupil size ≤ 7.0 mm
- Preoperative cylinder ≤ 2.0 D (subjective refraction)
- Preoperative intraocular pressure ≤ 21 mmHg
- Age between 18 and 60 at the time of the surgery
- * Dick HB, Budo C, Malecaze F, Güell JL, Marinho AA, Nuijts RM, Luyten GP, Menezo JL, Kohnen T.
 Foldable Artiflex phakic intraocular lens for the correction of myopia: two-year follow-up results of a prospective European multicenter study Ophthalmology 2009; 116(4):671-7.

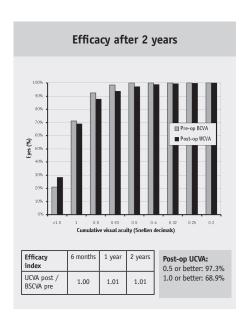
DEMOGRAPHICS

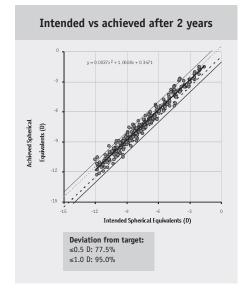
Eyes (N)	348
Age @ OP	35.43 years (range 19 to 57)
Gender	60.1% female 39.9% male
Eye	50.9% left 49.1% right
ACD	3.66 mm (range 3.20 to 4.79)
Axial length	25.88 mm ± 1.46 (range 21.74 to 31.33)
Pupil size (scotopic)	5.67 mm ± 0.91 (range 2.10 to 7.00)
Spherical equivalent	-7.23 D ± 2.65 (range -1.50 to -12.63)
Cylinder	-0.66 D ± 0.51 (range 0 to -2.0)
Incision size	3.20 mm ± 0.17 (range 3.0 to 4.0)

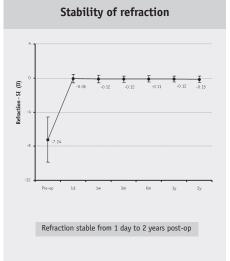
FIGURES

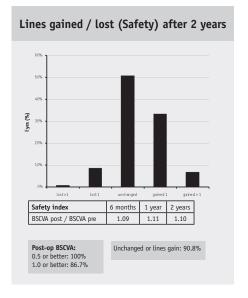


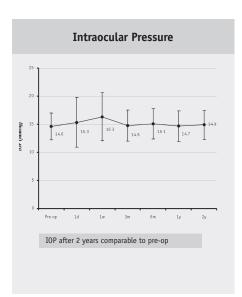


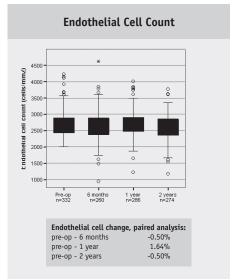












Persistant complications after 2 years:

Glare 3.2% Halo's 2.5% Pigment deposits 4.4% Non pigment deposits 1.3% Synechia 1.0%

Cumulative complications during study: