

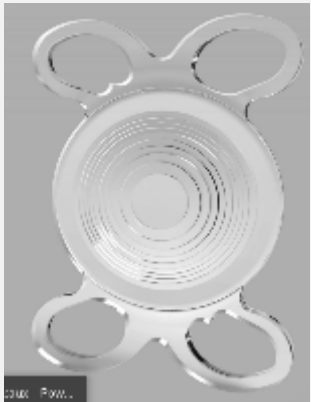
CLINICAL COMPARISON OF 2 COMPLEMENTARY IOLS WITH NEW DIFFRACTIVE DESIGN WITH BIFOCAL IOLS

Raffray. T, MD; Bertholom. JL, MD ;
Louesdon. T, Sc Orthoptist; Massot. A, Sc Orthoptist
Centre Vision Bretagne, Vannes, France

INTEREST DISCLOSURE: Travel has been funded, fully or partially, by a company producing, developing or supplying the product or procedure presented

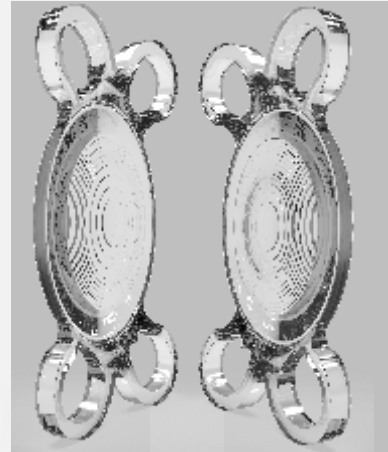
MATERIAL AND METHODS

- Two cohorts:
- Group I : 16 patients
- ARTIS PL M+3D / ARTIS PL M+3D



- Bifocal IOL
- Add : +3D

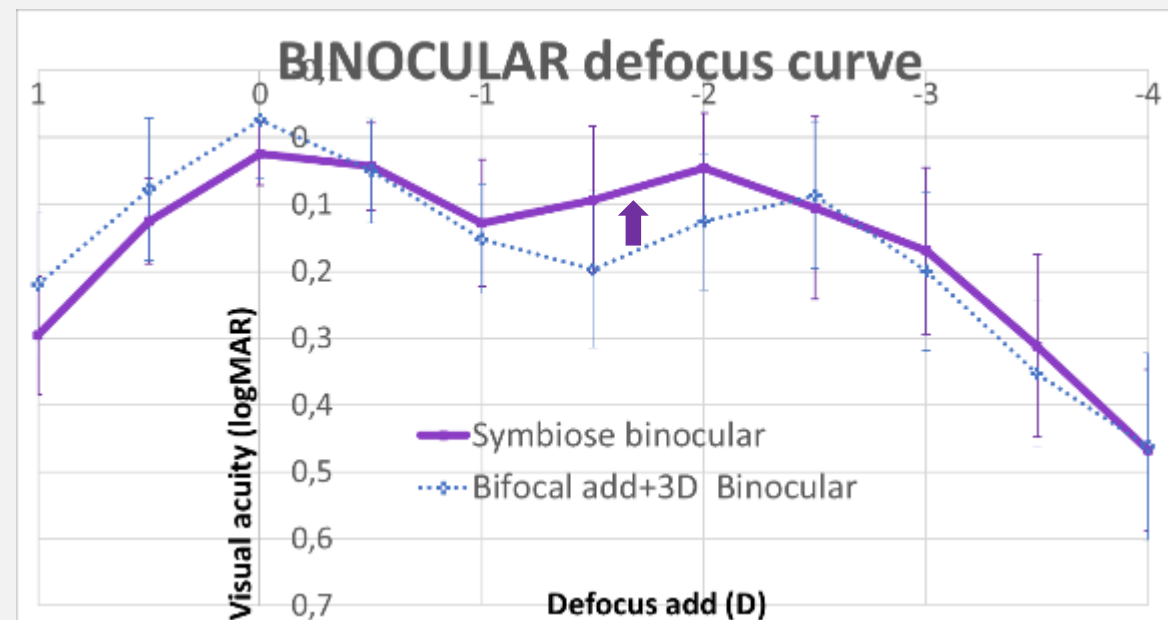
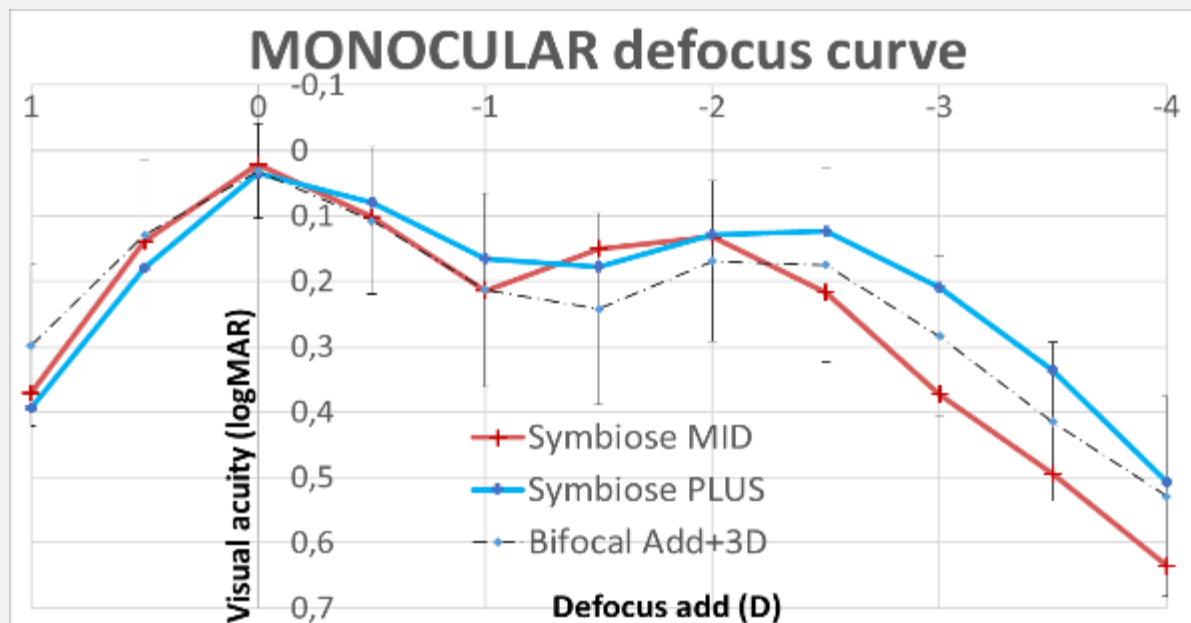
- Group II :14 patients
- ARTIS SYMBIOSE MID /ARTIS SYMBIOSE PLUS



- Multifocal paired IOLs with complementary MTF and phase continuity technologies
- Add : vision continuum from 40 to 90 cm

PURPOSE : To evaluate the performances in visual acuities, defocus curves, contrast sensitivity and real life feedback of the new ARTIS SYMBIOSE binocular solution to correct prebyopia.

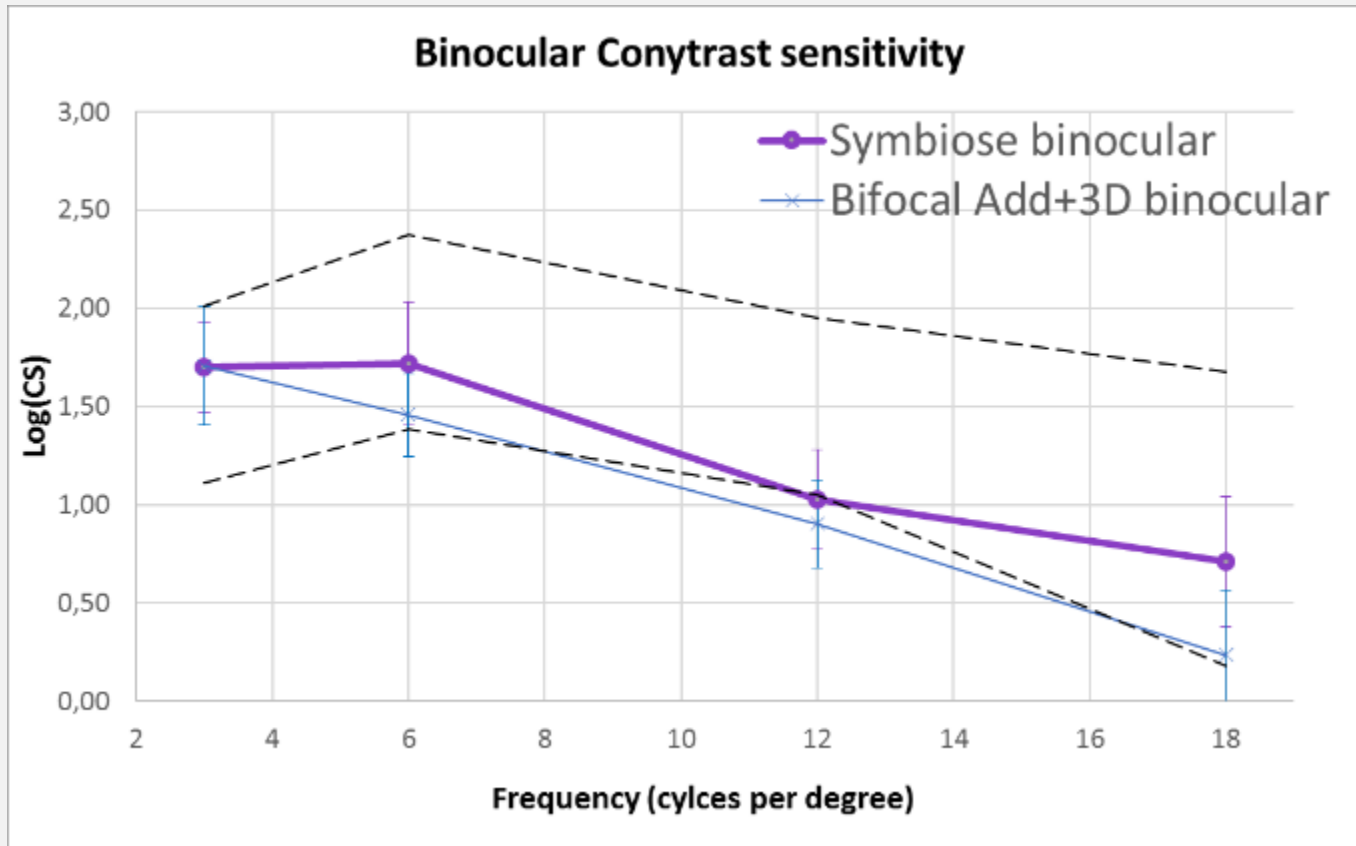
RESULTS: MONOCULAR AND BINOCULAR DEFOCUS CURVE



The binocular defocus curve with SYMBIOSE shows a smoother and higher VA from near to intermediate distances contrary to the bifocal curve with its valley at intermediate distance.

The VA obtained with Artis SYMBIOSE is better than 0,1 logMar(8/10) from add +2,5D (40cm) to 1,25D (80cm)

RESULTS: CONTRAST SENSITIVITY



Contrast sensitivity in the normal range (50-75 years)

Driving in night condition with
Artis Symbiose :

77% of patients have none or only small difficulties to drive during night.

No patients have high or very high difficulties to drive in night conditions.

CLINICAL CONCLUSIONS ON THE ARTIS SYMBIOSE

- **For the patient:**
 - The continuous reading distance from 40 cm to 90 cm obtained immediately after implantation facilitates the patient's adaptation to his/her new vision.
- **For the surgeon:**
 - Comfortable post-op vision simplifies pre-op information to give to the patient.
 - Visual performance and patient satisfaction with Artis Symbiose are not degraded by small refractive errors (+/-1D).
 - These initial results have been obtained with a non toric version for patients with astigmatism <0,75D.
 - Indications for the Artis SYMBIOSE will be extended with future availability of a toric version.

REAL LIFE FEEDBACK WITH THE ARTIS SYMBIOSE



YES, I CAN READ CONTINUOUSLY FROM 35 TO 80 CM