

**2009 Research Days Abstract Form – Department of Ophthalmology – UNIFESP/EPM**

**2. SCIENTIFIC SECTION PREFERENCE (REQUIRED):**

Review the Scientific Section Descriptions. Select and enter the two-letter Code for the one (1) Section best suited to review your abstract.

**3. PRESENTATION PREFERENCE (REQUIRED) Check one:**

- Paper
- Poster
- FAST Paper

**4. The signature of the First (Presenting) Author (REQUIRED) acting as the authorized agent for all authors, hereby certifies that any research reported was conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee'**

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**Scientific Section Descriptions (two-letter code):**

- (BE) OCULAR BIOENGINEERING
- (CO) CORNEA AND EXTERNAL DISEASE
- (CA) CATARACT
- (EF) ELECTROPHYSIOLOGY
- (EP) EPIDEMIOLOGY
- (EX) EXPERIMENTAL SURGERY
- (GL) GLAUCOMA
- (LA) LABORATORY
- (LS) LACRIMAL SYSTEM
- (LV) LOW VISION
- (NO) NEURO-OPHTHALMOLOGY
- (OR) ORBIT
- (PL) OCULAR PLASTIC SURGERY
- (PH) PHARMACOLOGY
- (RE) RETINA AND VITREOUS
- (RS) REFRACTIVE SURGERY
- (RX) REFRACTION-CONTACT LENSES
- (ST) STRABISMUS
- (TR) TRAUMA
- (TU) TUMORS AND PATHOLOGY
- (UV) UVEITIS
- (US) OCULAR ULTRASOUND

**Deadline: Oct 12, 2009**

**FORMAT:**  
Abstract should contain:

- Title**
- Author, Co-authors (maximum 6),**
- Purpose, Methods, Results,**
- Conclusion.**

Poster guidelines:  
ARVO Abstract Book (1.10 x 1.70m)

**76. FIRST (PRESENTING) AUTHOR (REQUIRED):**

Must be the author listed first in abstract body.

- ( ) R1      ( ) R2      ( x ) R3      ( ) PIBIC
- ( ) PG0    ( ) PG1    ( ) Fellow    ( ) Technician

Last Name: Moreno  
First Name: Pilar  
Middle: de Andrade Memoria

Service (Sector): Refractive surgery

CEP Number: 01648/06

**5. ABSTRACT (REQUIRED):**

**Myopic Angle-supported Intraocular Lenses**

Twelve years follow up

Pilar Moreno, Bruno Konno, Edson Mori, Norma Allemann, Wallace Chamon

**Purpose:** To evaluate clinical and refractive results of myopic angle-supported intraocular lenses (IOLs) and potential complications after twelve years.

**Design :** Retrospective, non-comparative case series

**Methods:** Data of the preoperative period and surgery were collected from the charts. We evaluated the following clinical and refractive data: visual acuity without and with correction (VAsc and VAcc), slit-lamp biomicroscopy, keratometry, intraocular pressure, endothelial cell count, ultrasound pachymetry and descriptions of complications.

**Results:** Eighteen eyes of fourteen patients that had implantation of single-piece IOL with Z-shaped haptics for angle support 12 years before were enrolled in this study. The mean follow-up time was 12 years. Spectacle- uncorrected visual acuities improved in all eyes. Preoperative spherical equivalent varied from -11.75 to - 27.75D. Pupil ovalization occurred in 55,5% of the cases. Mean endothelial cell loss was 23,71 % at the most recent visit . Intraocular lens exchange was needed in two eyes because of cataract development and the IOL was removed in one eye because endothelial loss and corneal edema.

**Conclusion:** Implantation of Angle-supported IOLs was effective and predictable in correcting severe myopia. The long-term follow-up demonstrates that these lenses appeared to be well tolerated by the corneal endothelium.