2007 Research Davs At	estract Form – Department of Ophthalmology – UNIFESP/EPM
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Author, (REQUIRED) acting as the authorized agent for all authors, hereby certifies.	
in compliance with the Declaration of Heisinki and the 'UNIFESP Ethical Committee'	IMMERSION, APPLANATION AND OPTICAL BIOMETRY: WHICH ONE IS BETTER TO CALCULATION OF MULTIFOCAL INTRAOCULAR LENS POWER? Filipe de Oliveira, Eduardo S. Soriano, Lincoln Leme Freitas, Cristina Muccioli
Signature of First	BACKGROUND: Many studies have recommended the immersion or optical biometry like the gold standard method t o multifocal intraocular lens (MIOL) calculation. Although the applanation biometry is widely used to monofocal IOL calculation, this technique is not so accurate to MIOL due to corneal indentation resulting in anterior chamber depth (ACD) as well as axial length (AL) shortened.
Scientific Section Descriptions (OR) OBBIT (FL) OCULAR PLASTIC SURGERY (RE) RETINA / VITREOUS (RE) RETINA / VITREOUS (RE) RETINA / ONCOMTACT LENSES (NO) NEURO-OPHTHALINACLOGY (TS) RETINASION CONTACT LENSES (VV) VUETIS (LS) LACRIMAL SYSTEM (LO) GAUVERS (LS) LACRIMAL SYSTEM (LO) GAUVERS (LS) LACRIMAL SYSTEM (LS) CACUMAR STREM (LS) CACUMAR (LTRASOUND) (RS) REFRACTIVE SURGERY (CAC) LARARATO (LS) COLLAR ULTRASOUND (LS) LACRIMAL (LTRASOUND) (LS) COLLAR ULTRASOUND (LS) LACRIMAL (LTRASOUND) (LS) COLLAR ULTRASOUND (LS) COLLAR ULTRASOUND	PURPOSE: To compare the AL and ACD measurements from three differents biometric methods widely used at present and to evaluate how much the applanation technique can produce error in MIOL calculation. METHODS: A study was perform ed on 92 eyes in 46 patients presenting to clinical practice for cataract surgery with MIOL assessment. Preoperative measurements of AL and ACD was taken with optical (IOLMaster, Zeiss - Germany), immersion and applanation biometry (Occusan RxP, ALGon - USA). All measurements were done for an unique biometrist. The measurements were used to determine the MIOL power based on the third generation formulas. RESULTS: The AL means obtained were by optical biometry (23.10mm ±0.93), memersion (23.14mm ±0.99) and applanation (23.00mm ±1.0.1). The ACD means, immersion (23.14mm ±0.99) and applanation (23.00mm ±0.40). The ACD correlation coefficients were 0.84 (applanation x arimmetre by 0.10 nm compared to optical and 0.14 mm to immersion biometry. This shortened measurements can result in post-operative error in myopic direction. CONCLUSION: The minimal post -operative error in myopic direction might be avoided to MIOL calculation, then the shortened measurements from applanation iometry. This net and cancellation this purpose.
Deadline: 29/10/2007	
FORMAT: Abstract should contain: Title, Name of Authors, Name of other authors (maximum 6), Purpose, Methods, Results, Conclusions. Example: ARVO (10 x 1.70) Abstract Book	