COMPARISON OF LENSTAR WITH IOL MASTER AS A BIOMETRIC TOOL

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Introduction: Biometry is a vital part of cataract surgery as the final refractive out come is very much dependent on accurate measurements. The IOL master is a gold standard and provides excellent results with new generation formulae. The lenstar optical system proposes increased accuracy in K measurements because it measures 32 points as against 6 points IOL master. Purpose: Purpose of this study is to validate the lenstar against the current Gold standard IOL master as a reliable biometric tool in predicting spherical IOL power. To identify the variations in K measurements between two systems and whether there is a significant difference to be taken under consideration. Methods: 57 eyes were scanned with both systems and results plotted. Results: Excellent correlation was seen in terms of Axial Length, ACD, IOL power and K's. The spread of error is demonstrated. Conclusions: The lenstar compared very well to the IOL master and proves a valid substitute as biometric tool. No significant K variation suggests no identifiable advantage in this study from proposed advantage with lenstar.