

COMMUNICATION

New HiScan Software Ver. 2.0.13

Dear Partners,

We would like to inform you that a new *HiScan* software version is now available for download on our website:

<http://www.optikon.com/en/download-software.asp>

Biometry

Accuracy and acquisition velocity in auto mode has been enhanced

Multiple B-Scan printout

It is now possible to print up to 4 B-Scan images on the same printout. Comments can be added on top and at the bottom of the printout module.

International Ophthalmic Hospital
Via del Casale di Settebagni, 13 Rome - Italy



Patient NAME SURNAME, Trab Mini OD

OD Glaucoma diag. 2009. Trabeculotomy on Jan 2010. Yag laser iris hole at 6 o'clock. IOP 19.

Marjo Rossi Phd, MD

_____ ***New Post Refractive IOL Calculations: The Camellin-Calossi Formula***

Given the high number of keratorefractive operations, more and more frequently surgeons have to perform cataract surgery with implantation of an intraocular lens (IOL) in patients who have previously undergone an operation of this type. Although there are no major technical difficulties in performing a cataract operation in these cases, the power of the IOL is often inaccurate. The problem is due to the fact that after a keratorefractive procedure, conventional keratometry yields incorrect data on corneal power. In the specific case of a keratorefractive operation for correcting myopia, on the basis of the ophthalmometric readings, the dioptric corneal power is overestimated. In this way, if the conventional calculation formula is used, the power of the IOL is insufficient with a consequent undesired postoperative hypermetropic residue.

The Camellin-Calossi formula that is the basis for this program derives from a theoretical formula in which two parameters were statistically adjusted: 1) dioptric corneal power; 2) the postoperative depth of the anterior chamber (specifically the distance between the principal planes of the cornea and the implant).

When we know the refractive correction induced by the refractive procedure it is possible to calculate the correct power of the IOL to implant.