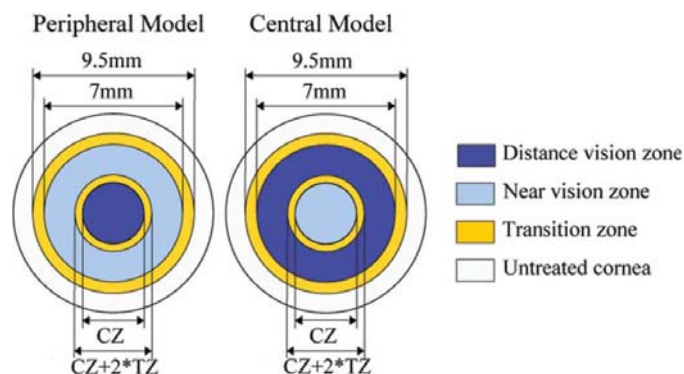


SEMINARIO DE IMÁGENES Y VISIÓN INSTITUTO DE OPTICA (CSIC)

Presbyopia corrections by laser refractive surgery

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Universidad de Granada



Refractive surgery by laser arose to correct myopia, hyperopia, and astigmatism. The next challenge is to develop an effective algorithm which would correct presbyopia and provide the subject with good visual quality for both distance and near vision without the use of optical compensation. Currently, there are two main methods to correct presbyopia by refractive surgery: monovision and multifocal ablations. The success of these methods is relative, since although most patients express a high degree of satisfaction, their visual quality shows a notable worsening. The increase in demand of this type of surgery makes the search for an effective method to correct presbyopia continue to be an important objective in the field of vision research. In this meeting, we present the results provided by the evaluation of these two correction techniques of presbyopia by laser refractive surgery. In the case of monovision, we have evaluated the visual quality of real subjects treated with to this type of surgery. In the case of multifocal ablations, the study was made in a theoretical way, developing and optimising different multifocal corneal designs with the aim of determining the characteristics of this type of surgery and its theoretical limitations.

Viernes, 20 abril 2012

12:00 horas

**Sala de Juntas. Instituto de Optica (CSIC).
C/ Serrano 121, 28006 Madrid**