Wavefront analysis in refractive surgery

Record Status
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Citation

Authors' objectives
The purpose of this report is to assess the usefulness of wave front analysis in the diagnosis and management of refractive defects.

Authors' conclusions
The added value of higher order aberration correction using wave front guided surgical methods is difficult to assess as regards their clinical impact. Even though it is still necessary to keep doing research on this new technology, it is possible that a selected subgroup of patients had more benefits with this technique: Patients with high rate of refractive defect due to these higher order aberrations, retreatment of already operated patients presenting persisting symptoms attributable to higher order aberrations detected on aberrometry or those patients requiring visual acuities or contrast sensitivity higher than normal, either due to their occupation or to a significant individual sensitivity.

Project page URL
http://www.iecs.org.ar/

Indexing Status
Subject indexing assigned by CRD

MeSH
Diagnostic Techniques, Ophthalmological; Refractive Errors /surgery; Vision Disorders /diagnosis

Language Published
Spanish

Country of organisation
Argentina

English Summary
English summary available

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AccessionNumber
32006000192

Date bibliographic record published
Date abstract record published
03/03/2006