

Special Issue

Refractive Surgery and Cataract Surgery: Updates and Challenges

Message from the Guest Editors

Laser refractive surgery (LSR) produces excellent visual outcomes, increasing the number of patients undergoing this procedure exponentially and consequently of those with corneal changes due to refractive surgery who undergo cataract surgery. In the era of “refractive cataract”, patients expect independence from glasses IOL, but it is well known that LRS determines modifications of corneal parameters such as corneal curvature and keratometric index. Therefore, it makes the formulas based on the mean keratometry, created for a population with no corneal alterations, unsuitable for the calculation of the IOL after refractive surgery. Using traditional formulas for this type of patient can lead to the so called “Hyperopic surprise”. For this reason, it is necessary to use IOL power calculation formula specific for LRS eyes. New frontiers in this field, such as Ray tracing, Artificial Intelligence and Multiformula approaches are available in this scenario. Original research papers, systematic review, narrative reviews, scoping reviews and systematic reviews with meta-analyses

Guest Editors

Dr. Ferdinando Cione

Dipartimento di Medicina, Chirurgia e Odontoiatria “Scuola Medica Salernitana”, Baronissi, Italy

Prof. Dr. Nicola Rosa

Department of Medicine, Surgery and Dentistry, “Scuola Medica Salernitana” University of Salerno, Salerno, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
medicina@mdpi.com

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Prof. Dr. Edgaras Stankevičius
Medical Academy, Lithuanian University of Health Sciences, Kaunas,
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