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Author:	Ioannis G. Pallikaris, MD, PhD
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Title:	Refractive Surgery with the Pulsar Z1 Solid-State Laser: 1-Year Results
Contributing Authors:	Pallikaris, Ioannis G.; Tsilkis, Nikolaos; Kymionis, George D.; Kounis, George A.
Purpose:	To evaluate the efficacy, safety and stability of PRK and LASIK in the correction of combined myopic astigmatism with the solid state laser system.
Methods:	A study was conducted on 40 eyes of mean age at 28.3 ± 5.3 yo, which underwent PRK and on 40 eyes of mean age at 33.8 ± 9.3 yo which underwent LASIK. The PRK group had a mean SEQ of -2.93 ± 0.93 D (-1.13 to -4.0) and mean cylinder of -0.62 ± 0.43 D (-0.25 to -1.75). The LASIK group had a mean SEQ of -5.22 ± 2.69 D (-8.00 to -2.00) and a mean cylinder of -0.78 ± 0.75 D (-4.00 to -0.00). The CustomVis quintupled Nd:YAG Solid State laser at 213 nm was used.
Results:	After 12 months follow-up for the PRK mean RSEQ was -0.25 ± 0.40 D and mean UCVA was 0.94 ± 0.18 D; 4 gained 2 lines(20%), 7 gained 1 line(33%), 9 had no loss or gain of lines(45%). For the LASIK group at 12 months the mean RSEQ was $+0.09 \pm 0.58$ D and the mean UCVA was 0.81 ± 0.22 D; 3 eyes gained 2 lines(15%), 5 eyes gained 1 line(25%), 11 eyes had no loss or gain of lines(55%), 1 eyes lost 1 line(5%). In the last six months of postoperative evaluation not more that 5% of the eyes in both PRK and LASIK patients, has changed more that 0.5D.
Conclusion:	PRK and LASIK were both effective and safe in the correction of myopic astigmatism.