

ESCRS 2008

Combined Refractive Surgery - 6 minutes

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Venue: Hall 14/2



Results in presbyopic correction with CustomVis Pulzar Z1

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Purpose: To investigate clinical efficacy, predictability and safety of multizone presbyopic software developed by CustomVis with the Pulzar Z1 solid state refractive laser.

SETTING: 1) Clinica Medellin, Medellin, Colombia; 2) Research and Development Department, CustomVis, Perth, WA, Australia.

METHODS: Forty one eyes were operated on with multi zone Presbyopia treatment plan on Pulzar Z1. Patient average age was 53.61 years. 6 eyes were plain presbyopic treatments while the rests of the eyes were operated on for both distant and near vision correction. All eyes were followed for minimum 6 weeks. Pre operative Uncorrected Visual Acuity (UCVA) for far vision ranged from 20/20 to 20/200 and for near vision it was 20/25 to 20/400.

RESULTS: All patients were followed for minimum of 6 weeks. 75.6% of the cases had 20/20 and 90% of cases had 20/25 or better uncorrected near visual acuity. Uncorrected far vision was 20/40 or better in 80% cases. Only one eye had 20/70 uncorrected far visual acuity, because of undercorrection.

CONCLUSIONS: Six weeks results are promising for presbyopic treatments, particularly in this semi-monovision technique. Future software adjustments may be required to achieve better far vision. Financial Disclosure: 5