

Press Release

Successful appearance at the ESCRS trade fair in Berlin Excellent study results for SCHWIND AMARIS and FEMTO LDV

Kleinostheim, Germany, October 2008

This year's ESCRS congress (European Society of Cataract and Refractive Surgeons) in Berlin was a complete success for SCHWIND eye-tech-solutions. Most notably, the SCHWIND AMARIS, which is meanwhile employed by over 50 users, enthused the large number of visitors at the booth. Particular interest was paid to unique features such as control of the ablation with two fluence values, thermally optimized laser pulse distribution and five-dimensional eye tracking. Equally compelling were demonstrations of the SCHWIND AMARIS' integrated optimized online pachymetry. This enabled the physicians to see for themselves, that with the further development of this significant safety feature, the corneal thickness can be measured even easier and faster than before.

Moreover, visitors at the booth were very interested in the SCHWIND AMARIS-FEMTO LDV combination. The cooperation of SCHWIND and ZIEMER offers refractive surgeons a system solution for high-quality all laser LASIK. The high added value of this cooperation is documented through results of a recent FEMTO-LASIK patient study with 233 eyes (one-month results) and 65 eyes (three-month results). The goal of the study, carried out by Dr. Maria Clara Arbelaez, Oman, was to evaluate treatments with the SCHWIND AMARIS in combination with the FEMTO LDV regarding predictability, safety and efficiency.

A result of the study was that treatments with the SCHWIND AMARIS in combination with the FEMTO LDV are very safe. Cutting of the flap with the FEMTO LDV showed high

precision and reproducibility. The attempted flap thickness was 110 μm . With the FEMTO LDV, a mean flap thickness of 103.76 μm with a standard deviation of only 7 μm was achieved. 36 percent of treated eyes gained one or more Snellen lines after 3 months. The three-month data additionally show very high stability. A post-operative SEQ averaging 0.17 D with a standard deviation of 0.22 D was observed. The predictability of the refractive results was also very good: 75 % of all treated eyes were in the range of ± 0.25 D. 94 percent (one month) and 97 % (three months) were in the range of ± 0.5 D and 100 percent of all treated eyes were in the range of ± 1 D. All results were achieved without the use of individual or personalized nomograms.

„Up to now I have treated more than 400 eyes with the SCHWIND AMARIS and the FEMTO LDV. In not one case any complications were observed. The patients were also extremely satisfied with their treatments and with the results“, summed up Dr. Maria-Clara Arbelaez her experiences with the combination.

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