

## Press Release

### **Very efficient and patient-friendly results**

#### **Six-month data for myopia treatments with the SCHWIND AMARIS available**

Kleinostheim, Germany, February 2008

The six-month data of a multi-centric LASIK myopia study with 358 eyes clearly demonstrate to what degree patients may profit from a treatment with the new SCHWIND AMARIS laser generation. Of all treated eyes, 65 percent achieved postoperative uncorrected vision of 20/16 or better. With 98 percent, visual acuity was increased to 20/20 or better (see figure 1). Predictability of the target refraction was also very good: After six months, 96 percent of treated eyes were in the range of  $\pm 0.5$  D. All results were reached without the use of individual nomograms.

Aberration-Free treatments with the SCHWIND AMARIS are very safe, according to a further finding of the current data analysis. More than 55 percent of treated eyes gained one or more line(s) of Snellen acuity after six months. With the Aberration-Free treatment, based on aspheric ablation profiles, the induction of higher order aberrations compared to non-aspheric treatments is minimized. The total RMS (root mean square) of postoperative higher order aberrations (for 6 mm analysis diameter) rose an average of only 0.07  $\mu\text{m}$ . This also resulted in postoperative higher contrast sensitivity for patients (see figure 2).

Examination of the entire time series over six months shows that a very good result with the SCHWIND AMARIS appeared shortly after the treatment. Already one day after the surgical procedure, study participants attained on average the same visual acuity as the preoperative best corrected with glasses or contact lenses. After six months, a significant

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increase in the postoperative uncorrected visual acuity to an average of 20/16 was observed.

The study was carried out by SCHWIND reference doctors Maria-Clara Arbelaez, MD, Oman, Francesco Carones, MD, Italy, Ioannis Aslanides, MD, Greece, Tobias Neuhann, MD, Germany, Carmen Barraquer, MD, Colombia as well as Pavel Rozsival, MD and Alena Feuermannova, MD, Czech Republic. Treated patients were myopes, either simple or with astigmatism, between 18 and 60 years of age. The preoperative spherical equivalent (SEQ) ranged from -0.50 D to -7.38 D, astigmatism was treated up to -5.0 D

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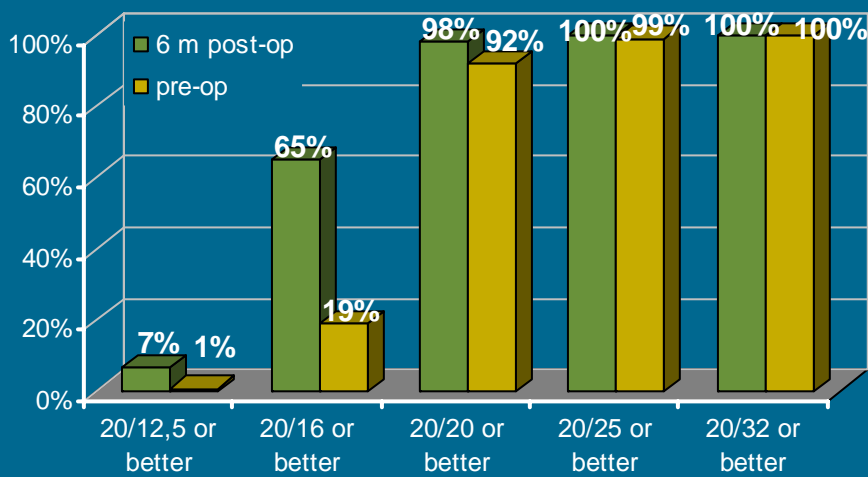
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**Figure 1: Pre-op BSCVA vs. post-op UCVA - percentage**



**Figure 2: Contrast sensitivity (photopic)**

