

## **A new diode laser with glass fiber for blepharoplasty**

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**Objective:** The blepharoplasty of the upper lid is one of the most common operations in the field of Oculoplastics and one of the most commonly performed operations in general. Mechanical, high-frequency surgical and CO<sub>2</sub> laser-assisted techniques are in clinical use to perform the incisions. We report on our first experiences with a new diode laser (wavelength 1470 nm) with glass fiber ("Leonardo", Biolitec Vista GmbH, Heroldsberg, Germany) for this indication.

**Method:** In the first 3 months of 2016, the laser fiber was used in 40 eyes of 20 patients for blepharoplasty of the upper lid. Patients were followed up clinically and the margins of the resected skin flaps were examined histologically.

**Results:** The laser fiber (600 micron conical, 3 watts) allows bloodless gentle incisions. The ablation of the skin from the underlying orbicularis muscle was performed mechanically in the prospectively selected group of subjects. Hemostasis with the laser is carried out efficiently quickly and gently. One week postoperatively well-healed wound edges were seen.

**Conclusion:** Initial experience with this laser fiber shows several advantages for use in upper eyelid blepharoplasty compared to high frequency surgery. The operation with this technique is fast, provokes minimal bleeding and minimal tissue damage.