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New procedure shows promising results

Report by Dr. Mark Tomalla ; Duisburg, October 2007

Decagonal transplant shape in perforating keratoplasties delivers promising results

We did perform perforating keratoplasties (pKPL) with the latest generation of the femtosecond laser FEMTEC® (20/10 Perfect Vision AG, Heidelberg Germany). Altogether we did operate approx. 30 patients safely, precisely and successfully with good postoperative results and can look back on a period of 2 years.

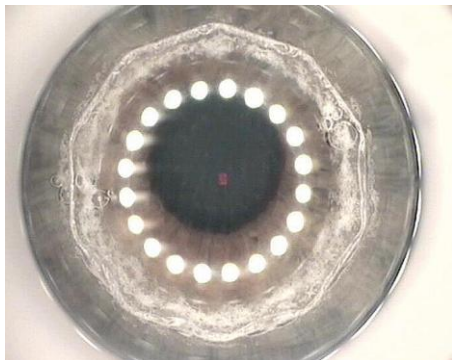
In addition to numerous other advantages, use of the femtosecond laser enables the surgeon to select the diameter of the transplant and the cutting angle specifically adapted to each patient hence tailoring the keratoplasty to the specific conditions to each patient's disease situation. A logical further development of the pKPL is to address the optimal transplant shape.

We have now performed the first three pKPL with a decagonal shape. The transplant could be sutured into the recipient cornea with an absolute fit precision of 1/100 mm.

The actual advantages of the decagonal cut compared to round or oval transplants are that there is no rotation or decentration at all during suturing. A fixation suture can be omitted in suturing and double suture is no longer required.

Postoperative we have a follow-up time of 2 months and measured stable refractive values in our patients with decagonal transplant shapes. Mean astigmatisms were 2 Dptr. and have remained stable thus far. Fine descemet folds were visible immediately postoperative, but they disappeared after approx. 2 weeks.

In our opinion, the use of non-circular transplant shapes, such as the decagonal shape, is a very promising approach.



View of patient cornea with decagonal cut



Decagon shaped graft in place

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Dr. Tomalla has no financial interest in the company or the product

About 20/10 PERFECT VISION:

20/10 PERFECT VISION of Heidelberg, Germany, develops, manufactures and markets innovative technologies for raising refractive surgery well beyond current expectations. The company's FEMTEC® femtosecond laser workstation is set to revolutionize the ophthalmic surgery market, while keeping ease-of-use and patient safety as primary objectives. The ISO 9001:2000 and ISO 13485 certified company is further pioneering the field of adaptive optics in ophthalmology.

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For more information on 20/10 PERFECT VISION and its proprietary femtosecond laser, please visit:

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