First clinical results after LASIK performed with a new Microscan Visum 500 Hz excimer laser (Optosystem, Russia) connected to Visionix wave front aberrometry L 180 (Luneau, France)

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Financial Interest
First clinical results after LASIK procedure with a new Microscan Visum 500 Hz excimer laser (Optosystem, Russia) connected to Visionix wave front aberrometry L 180 (Luneau, France)
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PlatoScan – Wavefront Guided Treatment Algorithm for MicroScan Visum

PlatoScan - special device to transform wavefront data from aberrometry to surgery calculated map

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Session: Refractive
Presented at: Ljubljana 2014
Room: Poster
Materials and methods

* 32 eyes (19 eyes 3 month follow up + 13 eyes 5 months follow up) myopia, hyperopia & astigmatism
* Average age 36 Y.O.
* All patients were undergone customized wave front treated LASIK. In 1 pseudophakic eye with hyperopia personalized PRK was performed

Complications

Surgical: 1 patient had bleeding from paralimbal vessels after flap creation
Post op follow up: dry eye syndrome in 1 case

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**Pre op and Post op VA**

Mean UCVA pre op 0.06
Mean BCVA pre op 0.89
Mean UDVA post op 1.06
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**Conclusion**

Microscan 500 Hz Excimer Laser (NanoVision Group, Russia) connected to wave front aberrometry showed:

- increase of UDVA in all the eyes
- efficacy
- safety
- predictability and stability of refractive results in follow-up
- quick visual rehabilitation
- more accuracy of final refractive calculation was achieved as compared with manual calculation
- Can be the equipment of choice in corneal refractive surgery

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