

# Autorefracton versus manifest refraction in patients with keratoconus

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# Autorefractraction versus manifest refraction in KC

Autorefractraction and manifest refraction show excellent comparability in healthy eyes<sup>1,2</sup>, but does this hold up for KC as well?

## Methods

- 90 eyes of 61 keratoconus patients underwent both automated and manifest refraction in random order
- Same optometrist, same room conditions
- Sphere, cylinder, axis, UDVA, CDVA, Scheimpflug tomography
- Vector analysis
- Multivariate component analysis



# Autorefractraction versus manifest refraction in KC

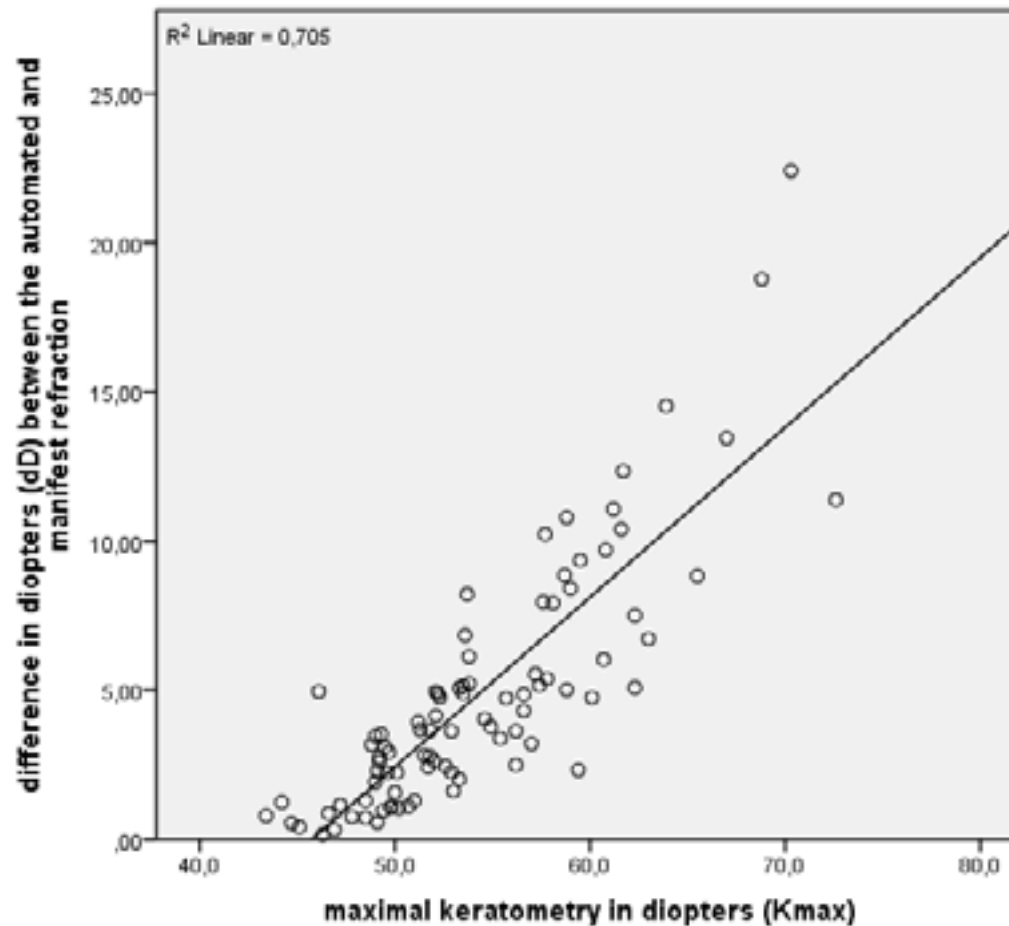
## Results

- Significant difference between both techniques (4.63 D)
- Better visual acuity with manifest refraction (0.06 vs 0.28 logMAR)



# Autorefractometer versus manifest refraction in KC

- Multivariate analysis indicated maximum keratometry as independent factor for this effect:



# Questions? Ask the authors!

