CORRELATION BETWEEN TONOPEN XL AND SCHIOTZ TONOMETRY IN MEASURING INTRAOCULAR PRESSURE

Abstrak:

Purpose: To find the correlation in measuring IOP using Tonopen XL and Schiotz Tonometry.
Material and Methods: The IOP of 295 eyes from 155 persons was measured by Tonopen XL and Schiotz tonometry. The results were recorded and calculated to get the correlation and agreement between the two measurements.
Results: From 155 persons, there were 88 females and 67 males. The youngest patient was 40 years old and the oldest was 83 years old. The intraclass correlation coefficient was 0.938 and coefficient of correlation was 0.730. Kappa value 0.666, coefficient of variation of Schiotz 0.543, and coefficient of variation of Tonopen 0.460.
Conclusion: There is strong correlation in measuring IOP using Schiotz and Tonopen. There was different reliability between two measurements that showed that Tonopen is more reliable than Schiotz but both measurements can be accepted.

Keyword:
tonopen XL, Schiotz, tonometry, IOP