

# Reliabilitas dan Waktu Interpretasi Progresivitas Glaukoma Menggunakan Perangkat Lunak FORUM® Glaucoma Workplace = Reliability and Interpretation Time in Glaucoma Progressivity Assessment Using FORUM® Glaucoma Workplace

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## Abstrak

Deteksi progresi glaukoma penting untuk menentukan efektivitas terapi, dan inisiasi atau eskalasi terapi glaukoma sering kali bergantung pada penilaian progresi. Meskipun demikian, tingkat kesepakatan (agreement) di antara para ahli dalam mengidentifikasi progresi glaukoma bervariasi antar penelitian. Penelitian ini membandingkan agreement dan waktu interpretasi progresivitas glaukoma oleh dokter spesialis mata menggunakan dua metode: perangkat lunak FORUM® dan printouts hasil pemeriksaan OCT dan Humphrey. Sebanyak 36 sample cases yang masing-masing terdiri dari minimal 3 laporan OCT dan 5 laporan Humphrey dinilai oleh 12 dokter spesialis mata non-glaukoma (observers). Agreement terhadap status progresi glaukoma antara observers dan konsensus spesialis glaukoma dan dinyatakan dalam nilai Kappa. Waktu interpretasi merupakan total waktu yang dibutuhkan oleh observers untuk menilai progresivitas glaukoma pada seluruh kasus (n=36). Tingkat agreement terhadap status progresi glaukoma ketika menggunakan FORUM® dan ketika menggunakan metode konvensional (printouts) sama baik, dengan nilai Kappa rata-rata  $0,62 \pm 0,16$  vs.  $0,63 \pm 0,22$  ( $p=0,928$ ). Metode FORUM® memiliki waktu interpretasi rata-rata yang lebih singkat dibandingkan dengan metode printouts, namun tidak bermakna secara statistik ( $29,1 \pm 9,5$  vs.  $38,8 \pm 13,6$  menit,  $p=0,055$ ). Studi ini menunjukkan bahwa penilaian progresi glaukoma menggunakan perangkat lunak FORUM® Glaucoma Workplace tidak memiliki keunggulan dibandingkan metode printouts dalam hal agreement terhadap status progresi dan waktu interpretasi.

.....Detecting glaucoma progression is crucial for determining whether current therapy is effective, and the initiation or escalation of glaucoma therapy often depends on progression status. However, the level of agreement among experts in identifying glaucoma progression varies across studies. This study aims to compare the agreement and interpretation time of glaucoma progression assessment using two methods: the FORUM® software and printouts of OCT and Humphrey reports, as assessed by ophthalmologists. A total of 36 sample cases comprising minimum 3 OCT and 5 Humphrey reports were assessed by 12 ophthalmologists. Agreement on glaucoma progression between observers and standard reference was presented as Kappa value. Interpretation time was defined as the total time required by observers to assess glaucoma progression across all sample cases (n=36). The level of agreement on progression status between the observers when they used FORUM® and conventional (printouts) method were both good, with mean Kappa value  $0.62 \pm 0.16$  vs.  $0.63 \pm 0.22$  respectively ( $p=0.928$ ). The FORUM® method had a shorter mean interpretation time compared to printouts method, but not statistically significant ( $29.1 \pm 9.5$  vs.  $38.8 \pm 13.6$  minutes,  $p=0.055$ ). This study showed that the assessment of glaucoma progression using FORUM® Glaucoma Workplace software has no superiority to printouts method in terms of agreement on progression status and interpretation time.