Evaluation of semiautomated measurement of Geographic Atrophy in age-related macular degeneration by fundus autofluorescence in clinical setting

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Summary

Purpose
To evaluate the intra- and interobserver agreement of how geographic atrophy is measured using the SPECTRALIS® RegionFinder™ software tool.

Methods
BluePeak™ fundus autofluorescence images of 29 eyes with geographic atrophy were independently analyzed twice using the RegionFinder by three readers with different degrees of clinical experience. Intra- and interobserver agreements were assessed.

Results
The mean difference in intraobserver agreement ranged from -0.17 mm² to 0.13 mm². The mean difference in interobserver agreement ranged from -0.25 mm² to 0.27 mm². There was no significant difference between senior and junior readers.

Conclusion
• RegionFinder is a reliable tool for the quantification of areas of geographic atrophy in a clinical setting.
• RegionFinder could be useful in both large-scale interventional studies and in daily clinical practice.