Reviewer’s report

Title: The ChromaTest, a Digital Color Contrast Sensitivity Analyzer, for Diabetic Maculopathy

Version: 3 Date: 24 June 2008

Reviewer: Keith A Goatman

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p.6 I’m still not sure where the thresholds for the piecewise breakdown come from. For instance, were they calculated as the mean of the normals plus 2 standard deviations or some other way? I am still concerned that the piecewise analysis is not the best approach to this data.

Have the authors considered combining the PCCT and TCCT in the classification process? A brief experiment appears to result in a higher sensitivity and specificity than achieved using the piecewise approach above. Also it should be possible to include the VA information in the classifier too (which may help with anomalous cases, such as men with colour vision deficiency).

Minor changes
p.4 “The letters ARE displayed on a background…”
p.5 “(figure 1)” move BEFORE full stop.
p.5 Include IQR for LogMAR summary statistics.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests