



**SDI Review Form 1.6**

Journal Name:	<a href="#">Ophthalmology Research: An International Journal</a>
Manuscript Number:	2014_OR_13618
Title of the Manuscript:	An Evaluation of Computer Based Color Vision Deficiency Test
Type of the Article	Original Research Article

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b><u>Compulsory REVISION comments</u></b>	<p>Keywords. Delete deuteranopia, protanopia and tritanopia since this is about screening for both anomalous trichromats and dichromats. Instead put in color vision screening</p> <p>Page 1. Their description of the physiology underlying congenital color vision deficiencies is so oversimplified that it is incorrect. "most common color anomalies is due to replacement of one class of color pigment by the class already represented in other cones" is the definition of a dichromat Please revise</p> <p>Page 2. Add acquired to "is the test most often used to diagnose type I, and II red green" it is not clear that they switch from congenital to acquired deficiencies.</p> <p>Page 2. Delete the paragraph starting with "Testing different visual.... It is incomplete in expressing their point (which I not too sure what the point is) and it is not required given the next paragraph</p> <p>Page 3. I think that is grammatical issue, but they state that the examiner "should " be color normal, so my question is, "was the examiner color normal?" However, why should the examiner be color normal? They are just recording the responses as wrong or right.</p>	<p>-- changes are made to the manuscript.</p> <p>-- Replacement of one class of color pigment by the class already represented in other cones is the cause of color vision deficiency in dichromate in congenital color vision deficiency (changes are made to the manuscript)</p> <p>-- Changes are made to the manuscript.</p> <p>-- This paragraph means that computer soft ware programs have been utilized to test different visual functions such as; visual acuity, stereo vision, visual field, and color vision as stated in references 8-12. ( corrected in the manuscript)</p> <p>-- The examiner should be color normal to be able to record the answer of the volunteer as correct depending on the test, however if he has the key answer he should not be color normal ( but in this case he need time to revise the answer each time is it correct or not).</p>



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	<p>Please be more specific about the “daylight” lighting conditions for the paper version and the room illumination conditions for the monitor version</p> <p>Page 3. Did the authors make any color adjustments or other image enhancements to the scanned images before saving the final versions and which monitor/settings did they use to evaluate the image quality. I am not familiar with the scanner, but did it have the capability to adjust the color management settings for different monitor settings and if so what was used.</p> <p>Page 3. Which graphics card did they use?</p> <p>Page 3. Were the plates on both tests presented in the same order and what was the order of test presentation?</p> <p>Page 3. Did the examiner actually time the presentations for the paper test or was it just approximately 3 sec</p> <p>Page 4. I don’t believe that the screen was actually calibrated to verify that the color temperature was actually 6500 K. I believe that they mean that the color management system was set to their particular parameters.</p> <p>Page 4. I am uncertain as to whether the paragraph describing the test targets to test the monitor capabilities was actually used as part of the procedure or whether this is a suggestion to the reader to verify that the readers monitor is capable of necessary resolution. If they are describing the latter, then is this should be in the discussion or appendix. They also need to describe the correct appearance of the targets in Figure 2 in more detail in case the reader/printer</p>	<p>--(opened windows in the examination room in a non cloudy morning in the middle east area, with a sufficient white fluorescent lamps for room lighting to be around 290 candel/m2) for both tests.</p> <p>-- No color adjustments or other image enhancements to the scanned images was done before saving the final versions, screen adjustment was made to the screen as described in the Methodology And Volunteers section.</p> <p>-- Graphics - Intel HD Graphics Dynamic Video Memory Technology 5.0</p> <p>--Plates of both tests were presented in the same order as that of the Ishihara test book.</p> <p>-- The Ishihara book was presented to the volunteer for 3 seconds and then removed.</p> <p>-- This is correct as the actual calibration to 6500 k was not assessed by any device.</p> <p>-- This is a suggestion to the reader to verify that the readers monitor is capable of necessary resolution, for correct reproduction of test. ( This paragraph was put in the Appendix section), if the test target did not match the screen it is recommended to try another screen with a higher resolution.</p>
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	<p>doesn't have the required color resolution.</p> <p>Page 4. There is general agreement with Birch, 1997 that the responses to the hidden plates can be ignored and just the responses to the vanishing and transformation are considered with more than 3 errors as a failure. The authors should also look at this criterion in their comparison of the two tests to determine whether it affects the specificity and sensitivity.</p> <p>Page 6. Long and tuck should be Long and <u>T</u>uck Nagelanomaloscope should be Nagel anomaloscope Page 8. 3<sup>rd</sup> paragraph – Reliability wasn't assessed in this paper</p> <p>Page 8. Heskett should be <u>H</u>askett</p> <p>Tables 1 and 2 should be combined into one Table</p>	<p>-- This is correct however the test has been completed and can not be repeated as the volunteers are no longer in the university, this criterion can help in future work.</p> <p>-- Changes are made to the manuscript.</p> <p>-- This is correct and Reliability was omitted from this paragraph.</p> <p>-- Changes are made to the manuscript.</p> <p>-- This is correct, however combining into 1 table will be lager and not understood by reader.</p>
<b><u>Minor</u></b> REVISION comments	Well now, we know that the Ishihara printed test can be scanned and presented on a LCD with little color management. For that reason, the paper should be accepted with mostly minor revisions outlined above, many are just editorial	
<b><u>Optional/General</u></b> comments		