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Clinical agreement of pterygium translucency redness appearance based on human colour perception

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Pterygium is wing-shaped, vascular and fleshy growth which encroaches from bulbar conjunctiva and progresses towards central cornea. Pterygium has been established as one of factor which causes induced-corneal astigmatism, alteration of anterior corneal parameter and changes in corneal topography. However, lack of research addresses the clinical agreement of subjective clinical grading based on its redness appearance. In this research work, 68 pterygium fibrovascular images were captured in a standardized magnification and illumination was selected for this study. All images were stored in JPEG format and randomize sorted. The images were compared and graded based on normal color perception, aided with sets of reference images which were described in previous study by an independent observer. The process was repeated twice with different sequence at least a month apart. The time intervals between grading sessions were set at least a month between each session. Our work found that the intra-observer intra class correlation shows excellent agreement (0.721, 95% CI: 0.585-0.818) (P=0.001). The inter-observer intra class correlation shows excellent agreement (0.781, 95% CI: 0.646-0.864) (P=0.001). Hence, our work found that the intra and inter-observer correlation were excellent which proved that in normal color perception, the individual variability is minimal.

Biography

Mohd Radzi Hilmi is currently pursuing his PhD in Health Science (Optometry) at International Islamic University Malaysia (IIUM). He has completed his Master of Optometry (MOptom) from University of New South Wales (UNSW) Australia in 2011. He has obtained his first degree in Optometry in 2010 from IIUM. His research interests are in anterior segment imaging and corneal and external eye diseases.

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