

# **TRACING THE ORIGIN OF THE MALAY RACE THROUGH MORPHOLOGICAL, HISTORICAL, SOCIO-CULTURAL AND GENETIC ANALYSES –OCULAR MORPHOLOGY ANALYSIS**

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## **Synopsis**

The eyebrow, eyelid crease, pretarsal skin, shape of the eye and orbital bone structure are used to determine human appearance and ethnicity. Asian eyelids have more subcutaneous and suborbicularis fat, lower insertion of levator aponeurosis and presence of pretarsal fat pad. Based on these soft tissue and anatomical variations, Asian eyelids were termed as 'single eyelids'. However, most studies were conducted on Asian of Chinese origin. Thus, the ocular characteristics of Malays are not clearly defined. To date, there has been no published data of ocular and craniofacial features of genetically proven Malays. Therefore in this study, ocular, craniofacial profile and dental analyses can assist in Malay race identification.

Eligible patients will be identified based on 7 criteria. Their visual acuity (only those with 6/12 or better are included), eyelids parameters, exophthalmometer measurement, intercanthal, interpupillary, interpalpebral distance, anterior segment biometry, optic nerve head parameters and fundus examination will be performed and documented. We hope to achieve normogram of all the ocular parameters among genetically proven Malays.