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International Journal of Medical Toxicology and Legal Medicine
Volume 25, Issue 1-2, 2022, Pages 10-13

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GENDER DETERMINATION FROM EYE MORPHOMETRIC ANALYSIS AMONG MALAYSIAN CHINESE FOR PERSON IDENTIFICATION(Article)

Natarajamoorthy, T., Xuan, Y.K., Norshafarina, S., Mariam-Aisha, F., Isa, M., Helmimohdhadhi, P., Raman, N.

^aFaculty of Health and Life Sciences, Management & Science University, Selangor, Shah Alam, Malaysia

^bSchool of Health Sciences, Universiti Sains Malaysia, Kubang, Kerian, Kelantan, Malaysia

^cResearch Department of Chemistry, VHNSN College, Madurai Kamaraj University, Tamilnadu, Virudhunagar, India

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Abstract

Gender determination is a vital tool for the anthropologist during crime scene investigation, narrowing down the suspects and building a biological profile. During crime operations, criminals used to hide their faces by wearing masks or helmets but uncover their eyes for the vision that forms a valuable clue for identification. Here, the only choice of identification evidence are the eyes. Eye morphometry is affected by ethnicity, socioeconomic status, regions and country. Hence, this study investigated the relationship between gender and eye morphometry among the Malaysian Chinese population, the first-ever anthropological study in Malaysia. A total of 127 consenting volunteers (63 males and 64 females) aged 18 to 40 years were enrolled under the convenience sampling method. The eye morphometric measurements in this study are Interpupillary Distance (IPD), Interocular Breadth (IOB), Ocular Width (OW) and Binocular Breadth (BOB). Following the standard procedure, the measurements were taken using a digital vernier calliper. The data were analysed using independent t-test. All parameters showed significant gender differences except for IOB. Therefore, the eye morphometric analysis is a promising method for gender determination among the Malaysian Chinese population. © 2022, Medico Legal Society. All rights reserved.

Author keywords

Eye morphometry Forensic Anthropology Gender Malaysian Chinese

Indexed keywords

EMTREE medical terms:

adolescent adult anthropometry Article body height convenience sample crime ethnicity female forensic anthropology human human experiment major clinical study male morphometry optometry sex determination sex difference sleep disordered breathing social status visual acuity young adult

Device tradename:

SPSS

Funding details

Funding sponsor	Funding number	Acronym
Management and Science University		MSU

Funding text