

## **Abstract**

Craniofacial anthropometric database of the normal healthy population is always necessary that may be required for scientists or for plastic and reconstructive surgeons, for the reconstruction of facial deformities of genetic origin or post traumatic and for the identification of an unknown individual missing or dead, craniofacial anthropometric normative database is the only reliable reference. To use the norms of the given population as reference data, craniofacial anthropometry was brought to clinical practice so that the deviation from the normal can easily be quantified. Even though various anthropometric researches have been done extensively in this field, but not all the three Malaysian ethnic groups were studied together and compared. So, in this study, a total number of 400 Malaysian students were included who belong to the three ethnic groups of Malaysia namely Malay, Chinese and Indians. The age range was between 18-25 years and 17 parameters were measured from them. The collected data was then processed statistically in independent sample t test by IBM SPSS Statistics Package 22. The extracted statistical data was then compared with the previous relevant studies. The result has clearly shown major facial characteristics of different ethnic groups and enriched the database with normal range of facial measurements. Comparative study shows significant differences between male and female Malaysians of individual ethnic groups and maximum parameters showed smaller measurements for female than the male. Compared discussions have also concluded that Malays are structurally identical in many facial parameters with that of Singaporean Chinese whereas Malaysian Chinese have shown different facial values than that of Singaporean Chinese. Contrary to that, there was no

difference found among Malaysian Indians and the Indians residing in India. This comparative data establishes that Malay and Chinese ethnic groups residing in Malaysia originated from the Mongolians but still there are some demographic effects available on the anthropometric database of Chinese people. Indians living in Malaysia are descendant of Indians from India.