SEXUAL DIMORPHISM FROM THE FACIAL DIMENSIONS: AN IDENTIFICATION PERSPECTIVE

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ABSTRACT

Sexual dimorphism has been of great interest for many years. The aim of the present study is to predict the sexual dimorphism from the facial dimensions among Choudhary Patels of Gujarat. The present study was conducted in Bhiloda (District-Aravalli), Gujarat. The study was carried out on Choudhary Patel with 200 samples including Males=100 & Females=100. Age Group was 18-60 Years. Only healthy subjects without any physical or facial abnormality were included in the study with their informed consent. The Present study provides a population specific technique for sex determination from facial dimensions to establish the identity among Choudhary Patels of Gujarat. Moreover, our study can predict 82% males and 91% females accurately and overall 87% for prediction of sex. Therefore, in the present study, among Twenty four measurements, MHB, MFB, BAB, NB, MHL and BCA have been found best predictors for Sexual dimorphism in Choudhary Patels of Gujarat. Among all the variables, MHL showed the highest Accuracy rates for males (79%) and MHB for females (88%). Discrimination equation can be derived for Sexual dimorphism from facial dimensios for Choudhary Patels of Gujarat. These findings provide a Model for sexual dimorphism through facial dimensions among Choudhary Patels of Gujarat which can be used for identification dynamics for anthropo-forensic purposes.

KEY WORDS: *Identification, Sexual Dimorphism, Facial Dimensions*