

Estimation of Stature from Foot Anthropometry: A cross-sectional study among Bengali speaking Hindu Population of West Bengal

Pabitra Paul¹, Subir Biswas² and Ashish Mukhopadhyay³

*^{1,2}Department of Anthropology, West Bengal State University,
Barasat 700 126, West Bengal, India*

*³Department of Anthropology, Acharya Prafulla Chandra College,
New Barrackpore 700 131, West Bengal, India*

KEYWORDS Forensic Anthropology. Forensic Anthropometry. Multiplication Factor. Regression

ABSTRACT This study was conducted to understand the relationship between foot dimensions and stature and to formulate multiplication factors and regression equations for estimation of body stature from foot measurements for the purpose of forensic identification. It was conducted on 340 healthy male Bengali speaking Hindu postgraduate students (21-29 years of age) of West Bengal, India. Both simple and multiple regression analysis were used to provide regression equations separately. All the foot measurements showed positive correlation with stature; among them, foot length showed more positive correlation than foot breadth. Regression analysis concluded that stature estimation could be carried out from foot length more accurately within the reference population.