

## Estimation of Stature from Foot Length in a Tribal District Population of India

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### Abstract

**Background:** Prediction of stature of an individual from skeletal remains or mutilated parts of body is a difficult task since many times even remains are not found in preserved condition. Moreover, it is well known that same anthropometric formula for estimation of stature is not applicable for all the races since anthropometric variations for different races and even for geographical areas exist. Hence the present study was planned to evaluate correlation between foot length and stature of a tribal district population of India. **Materials and Methods:** In the present study a total of 100 subjects including 23 male and 77 female were enrolled. Stature was measured from vertex to ground after keeping both feet parallel to each other on the ground. Foot length was measured from posterior most point of the heel to anterior most point of the foot using a calibrated foot board. Regression equations obtained from the data using SPSS software. **Results:** The mean observed stature of males was 169.97 cm and mean of the foot length was 25.00 cm. Pearson correlation coefficient 0.572 in male was highly significant. In females observed mean stature was 154.20 cm and mean foot length was 22.71. Calculated Pearson correlation coefficient 0.771 in females was also highly significant. The predictive stature observed in male was 169.97 cm with 3.26 as standard deviation while it was 154.20 cm in females with 5.51 as standard deviation. **Conclusion:** Among tribal district population of this part of India foot length and stature have good correlation. The calculated regression equations can be used for estimation of stature of males and females of this regional population.

**Keywords :**Foot Length, Height, Skeletal Remains

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