Finger Dermatoglyphics: A Study of The Rajputs of Himachal Pradesh

Inderjit Singh and R.K. Garg

INTRODUCTION

The Rajputs are distributed all over the various states of India like Punjab, Haryana, Delhi, Uttar Pradesh, Himachal Pradesh and Rajasthan and constitute an important population group. They acquire a significant place in Indian anthropology and ethnic history because of their obscure origin. In the present paper, data on the finger characteristics of Rajputs from District Shimla, Himachal Pradesh, have been presented. The Rajputs trace their pedigree from the heroic period of Hindu legend, but are probably descended from Asian immigrants in the 5th - 6th centuries A.D. They represent the old Kshatriya or warrior noble caste, ranking next to Brahmans. The conquest of Hindustan by the Muslims forced them into the arid hill- country, since named after them. Akbar won them over by war and marital diplomacy and they played a prominent part in the 16th-17th century Moghul politics until alienated by Aurengzeb’s Islamic bigotry. Under Moghul and to some extent even in Modern times they have jealously preserved a feudal and chivalric mode of society.

MATERIAL AND METHODS

In the present study bilateral rolled inked fingerprints of 100 unrelated Rajput (50 males and 50 females) were collected; the age of the subjects ranged from 18 to 60 years. The data was collected from village Sundli and Jubbal Town in Shimla District, Himachal Pradesh. The identification of patterns and ridge counts has been done according to Cummins and Midlo (1961).

RESULTS AND DISCUSSION

The different pattern types are broadly classified into three principal patterns namely whorls, loops and arches and their frequencies in both the sexes are given in table1. It is observed that whorls are most frequent and are more frequent on the right hand than the left one, while loop and arches occur more often on the left hand. Females however, show a higher frequency of whorls as compared to their male counterparts (Table 1).

The different indices have been calculated and listed in table 2. The value of indices Pattern intensity and Furuhata are high in females except Dankmeijer indices. The mean ridge counts of all the ten fingers for females are almost the same as observed for males and are 164.77 ± 6.20 (164.77 ± 6.20, S.D. = 41.14, Range = 58-257) and 164.20 ± 7.14 (164.20 ± 7.14, S.D. = 50.48, Range = 24-239), respectively.

Newman (1960) considered the indices of pattern intensity as one of the important criteria for the evaluation of the biologically meaningful differences between the group of populations and in the present study it has been observed that Rajputs of Himachal Pradesh (Present Study) are falling closer to Rajputs males (Kumar, 1955), Rajput males (Singh, 1961), Jats and Gujar males.

Table 1: Frequency of the finger patterns among the Rajputs of Himachal Pradesh

<table>
<thead>
<tr>
<th>Rajputs</th>
<th>Whorls</th>
<th>Loop</th>
<th>Arches</th>
<th>Whorls</th>
<th>Loop</th>
<th>Arches</th>
<th>Total (R+L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Males</td>
<td>138 (55.20)</td>
<td>109 (43.60)</td>
<td>39 (1.20)</td>
<td>107 (42.80)</td>
<td>136 (54.40)</td>
<td>7 (2.80)</td>
<td>245 (49.00)</td>
</tr>
<tr>
<td>Females</td>
<td>145 (58.00)</td>
<td>101 (40.04)</td>
<td>4 (1.60)</td>
<td>119 (48.57)</td>
<td>121 (49.38)</td>
<td>5 (2.04)</td>
<td>264 (53.33)</td>
</tr>
<tr>
<td>Total</td>
<td>283 (56.60)</td>
<td>210 (42.00)</td>
<td>7 (1.40)</td>
<td>226 (45.65)</td>
<td>257 (51.19)</td>
<td>12 (2.42)</td>
<td>509 (51.11)</td>
</tr>
</tbody>
</table>
(Chattopadhyay and Khushwaha, 1978), Brahmin Male (Mehta, 1960), Muslim males (Sen, 1966), Kashmiri Pandits (Kumbnani, 1963), Bhils (Biswas, 1957).

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KEYWORDS Finger Dermatoglyphics. Population Variation. Caste. North India

ABSTRACT In the present investigation of dermatoglyphic characteristics, of fingerprints of 100 unrelated Rajput (50 males and 50 females) of Sundli and Jubbal area of Shimla District, Himachal Pradesh have been analyzed. The results for the present study were observed to fall within the ranges as reported for the population groups reported from North India, particularly

REFERENCES


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