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Title:

Dermatoglyphic patterns in population of the R. of North Macedonia

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Abstract:

Dermatoglyphics is the scientific study of fingerprints from the hands and fingers, soles and toes.

Dermatoglyphic study has been conducted in order to determine and analyze individual dermatoglyphic characters in healthy individuals with Macedonian and Albanian nationality.

Some dermatoglyphic parameter on the 210 palm prints were read and classified. The prints were obtained from healthy individuals of Macedonian and Albanian ethnic origin. Palm prints were taken using Cummins and Midlo's ink method. Dermatoglyphics were classified according Henry's system.

The results in our population study showed that UL>Wc>We>DL>A>RL on both hands in all participants, radial loops are present only on the second digit, index and double loops are most present as complex patterns. Formula for present triradii is $a > t > b > d > c$. The values for Atd angle are equal from 35°-55°. Most often found in hypothenar region are distal loops.

In conclusion, a dermatoglyphic patterns on the hands and fingers in population in the R. of North Macedonia have been made. Normal variability of the dermatoglyphic patterns have been presented. The results provide new possibilities for further investigation of dermatoglyphics and their biological and genetic properties. Findings from our populational study can be compared with the results of other nationalities, as well as presenting a control group for comparison with dermatoglyphic patterns in many genetical disorders and different diseases.