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Dermatoglyphic assessment in Down and Klinefelter syndromes

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Abstract

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Background: Dermatoglyphics are the dermal ridge configurations on the digits, palms and soles. Dermatoglyphic polymorphism results from the co-operation of genetic and environmental factors. The Dermatoglyphic analysis is a valuable completion of initial diagnosis of some syndromes genetically determined. Our objective was to assess dermatoglyphics study results against standard chromosomal analysis in Down and Klinefelter syndromes. Methods: In this study we applied clear plastic tape and graphite powder for finger and palm prints of 90 persons. Cytogenetic study was also performed for patients with Down (n=29) and Klinefelter (n=22) syndromes and 39 normal individuals who served as the control group. Results: Dermatoglyphic investigations indicated that in Down syndrome, simian line, ulnar loops, whorl, t, t' and t were significant, whereas arch and interdigital III pattern were more indicative for Klinefelter syndrome. Conclusion: Dermatoglyphic can be used both as an initial diagnostic step and for screening purposes.

Author keywords

Dermatoglyphics; Down syndrome; Klinefelter syndrome

Indexed Keywords

EMTREE drug terms: graphite

EMTREE medical terms: article; chromosome analysis; controlled study; Down syndrome; finger; finger dermatoglyphics; human; Klinefelter syndrome; major clinical study; palmar dermatoglyphics; physical examination

Chemicals and CAS Registry Numbers: graphite, 7782-42-5

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References (39)

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- Bosco, J.I.E., Rajangam, S., Shankar, J., Thomas, I.M.
1 [Dermatoglyphics in 46, XY Females](#)
(2001) Journal of the Indian Medical Association, 99 (8), pp. 418-420. Cited 3 times.

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- CUMMINS, H., TALLEY, C., PLATOU, R.V.
2 [Palmar dermatoglyphics in mongolism.](#)
(1950) Pediatrics, 5 (2), pp. 241-248.

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- Fogle, T.
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