

ABSTRACT

**THE FINGERTIP DERMATOGLYPHICS PRESENTATION IN
PATIENTS WITH ESSENTIAL HYPERTENSION
IN PADANG CITY BY 2014**

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Various studies have shown that there are some genetic factors which are involved in the causation of essential hypertension and its possible to certain extent to predict from dermatoglyphics individual's chance of acquiring essential hypertension. There are some significant result for whorl and loop pattern in other study of dermatoglyphics relationship with essential hypertension. This study aims to know the fingertip dermatoglyphics presentation in patient with essential hypertension.

This study used a descriptive design with 100 samples. Data were collected by smear dark ink to the fingertips and print it to the paper one by one with rolling technique. Those samples are diagnosed with essential hypertension by the doctor.

The result of the study found that the incidence of obesity is more in 51-60 group age. The highest frequency is loop pattern (50,2%). The highest average total finger ridge count frequency is more than 20 (31%). The number of triradius in the fingertips are normal and used as a point to count the ridges.

This study showed the loop pattern as the highest frequency in essential hypertension patient, high average total ridge count, and normal number of triradius.

Keywords: Essential hypertension, dermatoglyphics

ABSTRAK

GAMBARAN POLA DERMATOGLIFI PADA UJUNG JARI TANGAN PENDERITA PENYAKIT HIPERTENSI ESENSIAL DI KOTA PADANG TAHUN 2014

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Faktor genetik telah dibuktikan di dalam berbagai penelitian, merupakan penyebab penyakit hipertensi esensial dan diyakini dengan melihat dermatoglifinya dapat diperkirakan kemungkinan seseorang terkena penyakit ini. Beberapa penelitian telah mendapatkan hasil signifikan untuk pola *loop* dan *whorl* sebagai pola penanda kemungkinan hipertensi esensial. Penelitian ini bertujuan untuk mengetahui gambaran pola dermatoglifi pada penderita hipertensi esensial.

Penelitian ini menggunakan desain deskriptif dengan 100 sampel. Pengumpulan data dilakukan dengan mengoleskan tinta berwarna gelap pada ujung jari tangan dan dicetakkan di atas kertas dengan cara digulingkan. Sampel penelitian ini telah didiagnosis hipertensi esensial oleh dokter.

Hasil penelitian didapatkan bahwa penderita hipertensi esensial terbanyak pada kelompok umur 51-60 tahun. Frekuensi pola tertinggi adalah pola *loop* (50,2%). Frekuensi tertinggi total