ABSTRACT

The Difference in Lip Print Pattern between Javanese and Chinese-

Indonesian Population

Abstract

Background: Lip print taken from the grooves along a person's lip is unique to each individual, just like finger prints, thus allowing them to be used as instruments of identification. The identification process has an important role in criminal and civil cases. Even though lip print is unique to each individual, hereditary factor still plays an important role in determining the pattern. A person's lip print pattern will have similarities to his/her parents and family members. According to that theory, it is possible that lip prints from a certain population will differ with another population because of the differences in lineage.

Purpose: To prove that there are differences in lip print patterns between Javanese population and Chinese-Indonesian population.

Method: This is an observational analytic research with samples taken from students of Airlangga University Faculty of Dentistry, Surabaya. There were 30 samples taken from each population. First, lipstick was applied to each sample's lip with lip brush. The sample's lip surface was then attached evenly to cellophane tape. Afterwards, the cellophane tape was carefully removed from the lip and the sample's lip print became visible on the tape. A piece of white paper was used as medium to store the lip print from the cellophane tape permanently. The results were then classified with Suzuki-Tsuchihashi classification. ***Result:*** Pearson's chi square test was used to analyze the data in this research, with a significance value of 0.783 ($\alpha = 0,05$). This result shows that there is no significance difference of lip print pattern between the two populations. ***Conclusion:*** There is no significant difference in lip print pattern distribution between Javanese and Chinese-Indonesian population of Airlangga University Faculty of Dentistry, Surabaya.

Keywords: forensic odontology, lip print, cheiloscopy, Javanese population, Chinese-Indonesian population