

ABSTRACT

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Bite-mark produces unique description of each individual that can be applied in forensic identification with high precision as well as fingerprints and deoxyribonucleic acid (DNA). There are methods that can be utilized when applying bite-mark comparison, either with computer-based method or odontometric triangle method. According to Sweet and Bowers 2011, computer-based method is the most accurate method, but odontometric triangle method came up as a new, more objective and practical method. The research objective is to understand the differences of analytical results using computer-based method and odontometric triangle method. This research applying observational anthropometric approach by measuring intercanine width, midline of left and right canines from upper and lower jaw in study model and bite-mark. The results came up from independent T- Sample test, showed there were significant differences in all bite-mark measurement results, in intercanine width from upper and lower jaw measurement result. While at intercanine width measurement result of left and right canine from upper and lower jaw in study model, found no significant differences. Based on the research, it can be concluded that there are bite-mark analytical result differences of odontometric triangle method and computer-based.

Keywords: Bite-Mark, Bite-Mark Analysis Technology, Computer-based Method, Forensic Odontology, Identification Forensic, Odontometric Triangle Method.