



1st International Conference on
Forensic Science, Forensic Medicine
& Criminology

msu infomec 2016

19 - 20 APRIL 2016
venue:
Management & Science University (MSU)
Shah Alam, Selangor, Malaysia

INNOVATIONS IN FORENSICS



Description of the Gonial Angle Size in Male and Female from Lateral Cephalogram for Forensic Identification

¹Fathin Vania Rahmadina, ²Moch. Rodian and ³Fahmi Oscandar

¹Faculty of Dentistry, University of Padjadjaran, Bandung, Indonesia. ²Oral Biology Department, Faculty of Dentistry University of Padjadjaran, Bandung, Indonesia. ³Forensic Science, Oral and Maxillofacial Radiology Department, Faculty of Dentistry, University of Padjadjaran, Bandung, Indonesia

The size of mandible's gonial angle can be used as an indicator for sex determination in the forensic identification process. The aim of this study was to determine the average size of gonial angle in male and female from the lateral cephalogram in University of Padjadjaran Dental Hospital. This research included 78 samples consisting of 25 radiographs of male patients and 53 radiographs of female patients aged more than 20 years old. The gonial angle was measured digitally using EzPax Plus application. Results showed that the mean size of the gonial angle of this study was $124,79^{\circ} \pm 6,92^{\circ}$ with the mean size of gonial angle in males were $121,19^{\circ} \pm 8,20^{\circ}$ and the mean size of gonial angle in females were $126,48^{\circ} \pm 5,55^{\circ}$. From this study, we can conclude that the average size of male's gonial angle in lateral cephalogram were smaller than the size of female's gonial angle.

Keywords: *gonial angle, sex determination, lateral cephalogram*