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

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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 Padjadajaran 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°±6.92° with the mean size of gonial angle in males were 121.19°±8.20° and the mean size of gonial angle in females were 126.48°±5.55°. 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