

## The Use of Human Intercanine and Intermolar for Determining Sex on Natural Disaster

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<b>First Author</b>	Hartomo, Bambang Tri; Adrianto, Angger Waspodio Dias; Anas, Asram Nur;
<b>Last Author</b>	Auerkari, Elza Ibrahim
<b>Authors</b>	Hartomo, BT; Adrianto, AWD; Anas, AN; Basman, RS; Auerkari, EI;
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<b>Abstract</b>	<p>Indonesia is an archipelagic country that located between the major Indo-Australian, Eurasian and Pacific tectonic plates. Thus condition makes Indonesia become a bunker of numerous active volcanoes. Recurrent natural disasters such as earthquakes and volcanic eruptions, with potentially large number of casualties that are difficult to identify often happen in Indonesia. Forensic Dentistry has a role in the identification of the victims of natural disasters. Advantages of human teeth are useful in the identification process due to their resistance to damage. Measuring intercanine and intermolar width can be the good indicator for sex determination. This aim of this study is to evaluate the use of intercanine and intermolar width for sex determination of an Indonesian sample population. The values of intercanine and intermolar width were measured from 300 study models obtained from the jaw-molding process on Indonesian subjects who met the inclusion criteria. For the results, both mandibular intercanine and intermolar width values were in male significantly greater than in female. The mean intercanine width obtained was 28.83 for male and 27.54 for female with <math>p = 0.013</math>, then mean intermolar width is 34.88 for male and 33.12 for female with <math>p = 0.025</math>. Measurement of intercanine and intermolar width can be used as an assisting tool for sex determination in the process of identifying victims of natural disaster cases.</p>
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<b>Author</b>	drg BAMBANG TRI HARTOMO, S.KG, M.Si