

A method for estimating the age of people in forensic medicine using multivariable statistics

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Abstract

The present study seeks to generate a regression model that allows estimating the age of individuals in the city of Barranquilla (Colombia) from the stages of people's teeth, in order to generate a tool to help forensic doctors in the identification of bodies in a high degree of decomposition. The model showed that sex and teeth 23, 27, 38, and 47 have a statistically significant relationship with age, and although the model has a medium level of explanation (adjusted R-square of 56%), it is a very useful tool for estimating the age of the inhabitants of Barranquilla given that the current standards are based on studies carried out in other countries with genotypic and phenotypic characteristics that differ from Barranquilla people.

Palabras clave

Multiple linear regression, Forensic odontology, Age estimation.