The palate shape and size are usually made as a reference in anthropology and forensic in order to determine the gender of human skull. In an edentulous, the shape of palate can’t be made as an indicator of gender determination. Thus, in this research, the size of palate is the only way as an indicator to determine the gender in an edentulous, including the length and width. Javanese 30 samples are used, consisting of 15 males and 15 females. After the palate have been duplicated and measured with a caliper, obtained the average male palate length is 4.78 cm and the average width is 4.56 cm. Meanwhile, the average female palate is 4.49 cm and the average width is 4.23 cm. After being processed with a T-test, it is obtained that the length signification between male and female palate is 0.008 and the width signification is 0.136. This occurrence proofs that there is a significant difference in the length, but there is no a significant difference in width between Javanese male and female palate in edentulous.

Keywords: palate shape, palate size, edentulous measurements