



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**



Age Estimation of Pawon Man with Teeth Identification using Johanson Method through CBCT 3D Radiograph

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Pawon man is prehistoric human who lived in Pawon cave. The skeletons found in the cave consist of brittle bones and teeth which were still attached to alveolar bone even though it had been immersed inside the soils for thousands of years. The teeth are used as primary identification in forensic odontology research. This research aimed to compare age estimation of Pawon man using the Johanson method. Previously, the age estimation was made only based on visual observation of posterior molars attrition by the Brothwell method. This research is a descriptive study using purposive sampling. The samples were 21 teeth that were intact and attached to the alveolar bone without any fracture lines. The measurement of age estimation with Johanson method lasted for 6 months using Ez-Implant software. The skeletons of Pawon man are protected by the law of Indonesian Cultural Heritage Regulation, thus a non-invasive age measurement by Cone Beam Computed Tomography 3D radiograph is required. The results showed that the age of the first Pawon man is 32-33.92 years old, third Pawon man is 32.935-36.275 years old, fourth Pawon man is 34.42 years old, and fifth Pawon man is 27.36-31.35 years old. Nonetheless, the second Pawon man is not included in sampling criteria. In conclusion, the measurement using Johanson method through CBCT 3D is more specific and detailed in yielding the age estimation compared to Brothwell method.

Keywords: *Pawon man, age estimation, Johanson method, CBCT 3D radiograph, Ez-implant software.*