Vol. 122, n. 1 (Supplement): 94, 2017

## **Clinical Applications of Genome Anthropology**

## Felice Festa, Monica Macrì

Department of Medical, Oral and Biotechnological Sciences, University G. D'Annunzio, Via dei Vestini, 66100, Chieti, Italy

Evolution is the only weapon that every living species has to survive to the changes of the surrounding environment. The clinical applications of genome anthropological studies has been studied. The goal is to understand with a global approach how certain body districts have changed during the evolution and how these changes have affected the contemporary man. All these researches investigated populations lived thousands of years ago and Tanaka craniofacial and cervical spine fresh cadaver dissective technic has enabled the creation of a comprehensive diagnostic protocol [1]. One of the most important tool of this diagnostic protocol is the use of all-skull CT cone beam which shows the anatomical structures in a real 3D perspective using a specific software. The use of this test has become a standard because the radiation dose administered is lower than the usual radiographs performed for the orthodontic diagnosis [2]. Among the innovative aspects of this protocol there is the evaluation of anatomical structures by means of cone-beam CT which allow us to create a specific therapy for each patient paying attention to gnathological and postural disorders. Patients are evaluated and monitored during the therapy using a clinical record which include a VAS test. VAS is a validated test and is used by patients to determine the effectiveness of the chosen therapy.

## References

- [1] FESTA, F., et al. Maxillary and Mandibular Base Size in Ancient Skulls and of Modern Humans from Opi, Abruzzi, Italy: A Cross-Sectional Study. , 0823 2010 Spring. ISBN 1941-6741; 1530-5678.
- [2] Feragalli, B., Rampado, O., Abate, C., Macrì, M., Festa, F., Stromei, F., ... & Guglielmi, G. (2017). Cone beam computed tomography for dental and maxillofacial imaging: technique improvement and low-dose protocols. La radiologia medica.

## Keywords

Anatomical diagnosis, evolution, posture, 3D, craniofacial dissections