

Angular craniofacial photometric analysis of the facial profile of Igalas in Nigeria

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Introduction: The morphology of the human face varies with individuals and even more with populations and ethnic groups.

Objectives: This study aims to determine the mean values of some craniofacial angles of Igala males and females from standardized facial profile photographs and to compare them with each other and with norms of different ethnic groups proposed by other researchers.

Materials & Methods: Standardized photographs of 1116 Igala subjects, comprising 558 males and 558 females were used for this study. The following angles were measured: nasofrontal, nasomental, nasofacial, nasolabial and angle of facial convexity.

Results: Four of the facial angles studied showed sexual dimorphism except the nasolabial angle. Of the four craniofacial angles that have significant sexual differences, the males had a higher value only in the nasofacial angle. Nasofacial angle (NFa) had the highest index of sexual dimorphism. The mean value of nasolabial angle (Cm-Sn-Ls) as well as facial convexity angle (G-Sn-Pg) found in the Igala is less than that reported in other populations.

Conclusion: The result of this study will be useful in orthodontics, anatomical modeling, forensic identification purposes and in plastic surgery to compare the pre- and post-operative results.

Biography

Ekezie Jervas is a Senior Lecturer at the Federal University of Technology Owerri, Nigeria, and former Head of the Department of Anatomy. He attended Abia State University, Uturu, Nigeria where he obtained PhD in Anatomy in 2012. He obtained his MSc in Human Anatomy in 2006 and BSc Human Anatomy in 2000 from Ahmadu Bello University, Zaria, Nigeria. He holds a Professional Certificate and Professional Diploma in Biomedical Engineering in 2008 from Nigerian Institute for Biomedical Engineering and Technology (NIBET). He is a fellow of College of Biomedical Engineering and Technology (FCEBT). His research interest includes bio-anthropology/forensics, musculoskeletal system/ disorder, gait analysis in humans and human performance measurement in health and diseases. He is an Editorial Board Member of *Anthropology* open access journal (ANTPOJ), *International Journal of Forensic Sciences*, *Forensic Research & Criminology International Journal*. He is also Editorial Board Member of 2425 publishers which consists of 4 journals: *Medica Press*, *Clinica Press*, *Life Science Press* and *Medica, Clinica and Life Science Imaging*. He has over 55 academic publications in peer reviewed journals to his credit. He was the Chairman of the local organizing committee of the 11th Scientific Conference of the Society for Clinical and Experimental Anatomists of Nigerian, 2012. He was also the Chairman Scientific Committee of the 1st and 2nd International Congress on Health Sciences and Technology, 2016 and 2017 respectively.

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