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BOOK OF ABSTRACTS

23rd EAA 23rd CONGRESS
OF THE EUROPEAN
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ASSOCIATION

16th ISGA 16th CONGRESS OF THE
INTERNATIONAL SOCIETY FOR
THE STUDY OF HUMAN GROWTH
AND CLINICAL AUXOLOGY

Anthropology in the Anthropocene:
Exploring Human Influences
On The Global Ecosystem

Human growth and development:
scientific advances and applications for
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Zagreb, CROATIA, September 05th to 08th, 2024



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For issue vol.4, no. 2 in 2024. we were privileged for the opportunity to announce excellent scientific lectures to be presented at the Joint International Meeting 23rd EAA Congress, 16th ISGA Congress and SSHB Congress.



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ISGA



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Presentation number: 12

A PHOTOANTHROPOMETRIC STUDY: A COMPARISON OF FACIAL INDICES DERIVED FROM PROFESSIONAL AND NON-PROFESSIONAL PHOTOGRAPHS

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Objectives. There are facial studies including professional photographs, however, studies investigating non-professional photographs are lacking. It is important to find out if non-professional photographs could be relevant for longitudinal facial analysis, as it could allow to perform such studies cheaper and save time. The aim of this study was to compare indices obtained from professional and non-professional photographs with anthropometrically determined indices. **Methods.** Faces (in frontal view) of 18–21-year-olds (35 males, 39 females) were measured by direct anthropometry and photographed using a standard protocol (professionally). In addition, non-professional frontal photographs of the same individuals were collected. Craniofacial landmarks were superimposed on all photographs in the frontal plane. Ten facial parameters were measured in total, 25 facial indices were calculated. Indices obtained from direct anthropometry and from both types of photographs were compared. **Results.** Fourteen of 25 (56%) facial indices did not differ in males and 10/25 (40%) in females ($p > 0.05$) between those obtained from direct anthropometry and from professional photographs. Comparison of direct anthropometry with non-professional photographs revealed that 8/25 (32%) indices did not differ in males and 7/25 (28%) — in females. These mostly contained vertical parameters and eye measurements. Comparing professional and non-professional photographs, it turned out that 16/25 (64%) of indices in men and 8/25 (32%) in women did not differ. **Conclusion.** In both types of photographs, indices including vertical facial dimensions and eye measurements were mostly consistent with those obtained from direct anthropometry. These parameters can be used interchangeably between photographs and direct craniofacial measurements and may therefore be suitable for longitudinal facial analysis using non-professional photographs.

Keywords: Anthropometry; craniofacial compartment; facial indices; photo-anthropometry, professional photographs, non-professional photographs