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## A comparative cephalometric investigation of the Greek craniofacial pattern through 4,000 years

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## **ABSTRACT**

A comparative cephalometric investigation was conducted between modem and ancient Greeks to determine craniofacial characteristics and to examine the significance of ethnic heritage. The modem sample was composed of 54 individuals chosen on the basis of ethnic background, normal occlusion and facial harmony. The ancient sample consisted of 40 skulls with normal occlusion dated back to the Minoan civilization (ca. 1,800-1,200 B.C.) A remarkable similarity in craniofacial morphology was revealed between the two groups, suggesting a close genetic affinity between modem and ancient Greeks.

The ability of the craniofacial complex to make compensatory or balancing changes was noted. The craniofacial complex was seen to function as an integrated biological entity. Moreover, the cranial base showed a definite influence on skeletal profile configuration. These results provide a more comprehensive understanding of how craniofacial variables interact and contribute to the morphology of the dentofacial skeleton.

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KEY WORDS: Craniofacial morphology, Cephalometric analysis, Greek, Racial characteristics, Genetic affinity.