

## **Preliminary analysis of the morphological variations in the young soccer players**

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Several studies have been conducted to analyse the morphological variation into the footprint during different tasks. In the present study the shape variation of the baropodometrical footprint of the young soccer players, has been analyzed through the geometric morphometrics which allows to quantify the morphological variation of the objects by using Cartesian coordinates of chosen points on the footprint outline. The results of this study, suggest a physiological and biomechanical organization of the foot type in the soccer players related to a general narrowing of the midfoot. Taking in account the correlation between foot type and sport injuries, the knowledge of the sport specific morphological variation of the footprint could be useful in planning of a training protocol to prevent and reduce the sport related injuries.

Key word

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Baropodometry, footprint, foot type