# The Ratio of Second-to-Fourth Digit Length (2D:4D) and the Physical Ability in Men and Women 


#### Abstract

Authors : Marek Kociuba, Jarosław Kurek Abstract : Introduction: The digit length ratio (2D:4D) is generally higher in women compared to men. Lower 2D:4D is linked with greater physical ability, strength, and better sporting performance. Second-to-fourth digit lengths ratio (2D:4D) is an indicator of PT exposure. Lower 2D:4D indicates higher PT exposure and vice versa. Methods: The objectives of this paper were to investigate the relationship of 2D:4D with physical fitness in men and women. The study compared 137 female and 174 male students from Wrocław. Besides calculating 2D:4D for each hand, height and weight were also recorded. Assessment of physical fitness and endurance were performed through Eurofit tests. Handgrip strength was measured by a standardized isometric dynamometer. Results: Male participants had significantly lower 2D:4D than females on each hand. A weak relationship between 2D:4D and the results of strength tests was found.


Keywords : 2D:4D, physical fitness, prenatal testosterone, sexual dimorphism
Conference Title : ICPAPBA 2023 : International Conference on Physical Anthropology, Primate Behavior and Analysis
Conference Location : Sydney, Australia
Conference Dates : February 20-21, 2023

