# Analytical Study to Indicate the comparison in Biomechanical Variables of Handball Scoring

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**Abstract**

The aim of this study is to identifying the scoring biomechanical variables as per of the distance from the goal and to understand those variables. We have approached the case study descriptively by using the survey mode and the sampling is 10 professional handball players from Basra Council Team for the sport season 2018/19. A special video camera with Kinovea sport skill analysis programmer were used to determine the biomechanical variables. All data were treated by SPSS-Ver 21 Statistical programmed.

The research results confirmed that there are significant differences in biomechanical variable of reaction index due to the three distance selected from the goal (𝑀#, 𝑀% 𝑎𝑛𝑑 𝑀\*). 𝑀\* is the longest distance more than (𝑀# 𝑎𝑛𝑑 𝑀%), where the player needs to satisfy enough height to overcome the baffle defender wall. The vertical work shows a significant differences in biomechanical variable in the three distance areas. 𝑀\* again showed the best result as it is depend on the vertical velocity needs via goal rounding run.

**Keywords:** Biomechanical and sport, Handball scoring , Kinetic analysis