

VICHIAN HUNSANIMITKUL : A COMPARISON OF INITIAL VELOCITY IN SWIMMING USING THE GRAB START IN DIFFERENT ANGLES. ADVISOR : DR. CHAROON MEESIN 59 PP.

The purpose of this study was to compare the initial velocity of swimming by using the grab start technique in three different angles : (1) 0° angle - 15° angle, (2) 15° angle - 30° angle, and (3) 30° angle - 45° angle.

The subjects in this study were forty five male students who were purposively sampled from the male college swimmers ranging in age from twenty to twenty eight years old. Each of them recieved the grab start technique orientation and practiced before testing. Then, they were tested in jumping off by using the grab start technique at the three specified angles with three times for each angle. The time which was the initial velocity was recorded by the electric timer (.001 seconds). The electric timer switch was turned on as soon as the subjects jumped off at the starting block and was turned off immediately when the subject touched the touch board which was placed 7 metres away from the starting block.

The obtained data were computed as the means, standard deviation and one way analysis of variance. If there were any statistical significant differences in the initial velocity of three different angles, the data would be treated by using the Tukey's method.

The results were as follow :

1. The initial velocities in swimming using grab start technique were significantly different at .01 level.

2. The initial velocities in swimming using the grab start technique in the 15° - 30° angle, and 30° - 45° angle were better than of the 0° - 15° angle with the statistical significant differences at .01 level. In addition, the initial velocities in swimming using the grab start technique in the 15° - 30° angle, and the 30° - 45° angle was not significantly different at .01 level.