Jurairat Udomvirojsin 2007: Effects of Eye-Hand Coordination Training with EYE-HAND COORDINATION TRAINER and NINE SQUARE APPLIED PROGRAM upon to Response Time of Table Tennis Players. Master of Science (Sports Science), Major Field: Sports Science, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Bunjob Piromkam, M.Ed. 107 pages.

The purposes of this research were to study and contrast the effects of eye-hand coordination training with EYE-HAND COORDINATION TRAINER and NINE SQUARE APPLIED PROGRAM upon to response time of table tennis players. Thirty subjects were random sampling from table tennis players of High Performance Sports Centre, Institute of Physical Education Suphanburi Campus, at the age of 16-19 years old. Subjects were randomly assigned into 3 groups with 10 subjects in each group. The control group performed only table tennis training. The first experimental group performed established table tennis training and eye-hand coordination training with EYE-HAND COORDINATION TRAINER while the second experimental group performed established table tennis training and eye-hand coordination training with NINE SQUARE APPLIED PROGRAM. Subjects were trained 3 days per week for 8 weeks. All of the subjects were tested for eye-hand response time at the beginning of the study and after the forth and the eighth weeks of training. Data were analyzed with mean, standard deviation, one-way analysis of variance with repeated measures, one-way analysis of variance and followed by using the Tukey's multiple comparison test. Results were considered significantly difference when $p < .05$.

The results of this study showed that after the fourth and the eighth weeks, there were differences between the control group, and the first experimental group and the second experimental group at the .05 significance, while between the first experimental group and the second experimental group were no differences at the .05 significance. The results indicated that eye-hand coordination training with EYE-HAND COORDINATION TRAINER and NINE SQUARE APPLIED PROGRAM effectively increased the eye-hand response time. The finding could be useful for the applied training to improve the eye-hand response time of table tennis players.

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