

# DEVELOPMENT OF REACTIVE AGILITY AND COORDINATION INSTRUMENTS HAND EYES FOR TABLE TENNIS TALENT IDENTIFICATION

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## ABSTRACT

Reactive agility and hand eye coordination are components important biomotor in table tennis game. Therefore, reactive agility and hand eye coordination need training and assessment. A good assessment requires valid and reliable measurement tools to measure training results. The aim of this study was to develop reactive agility and hand eye coordination measurement tools for table tennis skills. The research method used in this research is Research and Development (R&D), namely developing reactive agility measuring instruments and hand-eye coordination measuring tools in table tennis. The research procedure consisted of four stages, namely the development stage of the measuring instrument construction design, the validation stage, the field trial stage, and the dissemination stage, while the subjects for instrument application (field test) used 51 table tennis athletes aged 10 to 12 years, who had train for two years (at least twice who have participated in regional level competitions). Data collection techniques for expert tests used the Delphi technique, while data analysis used to test content validation used the Aiken V formula. Test the reliability of measuring instruments through re-measuring tools using person product moment correlation statistics. The results of this study are the construction of a reactive agility measuring tool and a table tennis hand-eye coordination measurement tool. All aspects have good content validity with a V value of  $>0.76$ . The ICC value of the reactive agility measuring instrument and the table tennis hand-eye coordination measurement tool is  $> 0.04$  which can be said to have a good level of reliability between raters. Test the empirical validity of the reactive agility measuring instrument and measuring hand eye coordination is said to be good. The reliability test obtained a value of  $> 0.5$ , it can be said that the reactive agility measuring instrument and the table tennis hand eye coordination measuring instrument are reliable or have a good level of reliability.

Kata Kunci: *instrument, agility, coordination, table tennis*