

## **ABSTRAK**

**Hendra Gunawan, 1403325. Hubungan Fungsi Kognisi Terhadap Peningkatan Keterampilan Futsal Berbasis Sensor, di bawah Bimbingan Drs. Mudjihartono. M.Pd dan Jajat Darajat K.N M.Kes.,AIFO**

Penelitian ini dilaksanakan pada tanggal 16 juli 2018 yang di latarbelakangi masalah pemahaman bermain futsal siswa pada kegiatan ekstrakurikuler, tujuan dari penelitian ini adalah untuk mengetahui hubungan antara fungsi kognisi terhadap keterampilan futsal berbasis sensor. Populasi pada penelitian ini adalah siswa SMAN 17 Bandung yang mengikuti ekstrakurikuler futsal. Pengambilan sampel menggunakan teknik *sampling purposive* sebanyak 12 siswa. Metode penelitian yang digunakan dalam penelitian ini yaitu metode *eksperimen* dengan menggunakan desain *One Group Pretest Post Test Design*. Instrumen penelitian untuk fungsi kognisi yaitu *Grid Exercise*, *Digit Span Tes* dan TPA. Keterampilan gerak dasar futsal seperti *passing*, *dribbling* dan *shooting* kemudian keterampilan futsal menggunakan Zep sensor dari mengukur daya jelajah di lapangan, kecepatan tendangan dan banyaknya tendangan. Hasil pengolahan dan analisis data diperoleh bahwa hasil pengujian dari kognisi dan keterampilan futsal didapat p-value sebesar  $0,295 > 0,05$  maka  $H_0$  diterima, kemudian fungsi kognisi dan keterampilan futsal menggunakan sensor didapat p-value sebesar  $0,025 < 0,05$  maka  $H_0$  ditolak, dan fungsi kognisi dengan keterampilan futsal dan sensor didapat p-value sebesar  $0,017 < 0,05$  maka  $H_0$  ditolak. Hipotesis diterima dan terbukti. Disimpulkan bahwa fungsi kognisi berkorelasi positif terhadap hasil keterampilan futsal pada siswa SMAN 17 Bandung.

**Kata Kunci : Fungsi kognisi, dan keterampilan futsal.**

## **ABSTRACT**

**Hendra Gunawan, 1403325. The Relations of Cognitive Functions to Sensor-Based Futsal Skills Improvement, under the Guidance of Drs. Mudjihartono. M.Pd and Jajat Darajat M.Kes.,AIFO**

This research is based on the background of the problem of understanding playing futsal students in extracurricular activities, the purpose of this study was to determine the relationship between cognitive functions on improving sensor-based futsal skills. The population in this study were students of SMAN 17 Bandung who participated in futsal extracurricular activities. Sampling using purposive sampling technique as many as 12 students. The research method used in this study is the experimental method using the One Group Pretest Post Test Design design. Research instruments for cognition functions are Grid Exercise, Digit Span Test and TPA. For basic futsal skills, passing, dribbling and shooting and the Zepp sensor, which consists of measuring cruising on the field, kick speed and number of kicks. The results of processing and data analysis showed that the test results obtained p-value of 0.295 on futsal skills, then obtained p-value of 0.025 on futsal skills (sensors), and obtained p-value of 0.017 on futsal and sensor skills. Then the hypothesis is accepted and proven. So it can be concluded that the function of cognition has a positive correlation with the results of futsal skills in students of SMAN 17 Bandung.

***Keywords: Functions of cognition, and futsal skills.***