

ABSTRAK



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HUBUNGAN DAYA LEDAK DENGAN KECEPATAN REAKSI PADA PEMAIN FUTSAL

Terdiri dari VI Bab, 97 Halaman, 19 Gambar, 6 Tabel, 3 Skema, 6 Grafik, 9 Lampiran

Tujuan: Untuk mengetahui hubungan daya ledak dengan kecepatan reaksi pada pemain futsal. **Metode:** Penelitian ini merupakan penelitian deskriptif kuantitatif dengan bentuk penelitian korelasional. Sebanyak tiga puluh pemain futsal profesional (usia $25,8 \pm 5,75$ tahun, tinggi badan $172,9 \pm 6,03$ cm, berat badan $71,43 \pm 8,45$, IMT $23,68 \pm 2,69$ kg/m²; mean \pm SD), berpartisipasi dalam penelitian ini. Daya ledak otot tungkai dan kecepatan reaksi masing-masing subjek diukur dengan *Standing Broad Jump* dan *Nelson Foot Reaction Time Test*. **Hasil:** Terdapat peningkatan yang signifikan antara daya ledak dengan kecepatan reaksi ($p < 0,05$) dengan nilai $r = 0,404$ yang berarti terdapat korelasi sedang terhadap daya ledak ($278,4 \pm 33,81$ cm) dan untuk kecepatan reaksi ($0,16 \pm 0,01$ s). **Kesimpulan:** Terdapat hubungan yang signifikan antara daya ledak dengan kecepatan reaksi pada subjek.

Kata Kunci: daya ledak, kecepatan reaksi, pemain futsal, *Standing Broad Jump*, *Nelson Foot Reaction Time Test*

ABSTRACT



Undergraduate Thesis, August 2023

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THE RELATIONSHIP BETWEEN EXPLOSIVE POWER AND REACTION SPEED IN FUTSAL PLAYERS

Consist of VI chapter, 97 pages, 19 figures, 6 tables, 3 schemes, 6 graphics, 9 attachments

Purpose: To examine the relationship between explosive power and reaction speed in futsal players. **Methods:** This research is a quantitative descriptive study in the form of a correlation study. A total of thirty professional futsal players (age $25,8 \pm 5,75$ years, height $172,9 \pm 6,03$ cm, weight $71,43 \pm 8,45$, IMT $23,68 \pm 2,69$ kg/m 2 ; mean \pm SD), participated in the study. Each subject's explosive power of the leg muscles and reaction speed measured with Standing Broad Jump and Nelson Foot Reaction Time Test. **Results:** Significant enhancement between explosive power and reaction speed ($p < 0,05$) were served, with a value of $r = 0,404$, which means that there was a moderate correlation strength for explosive power ($278,4 \pm 33,81$ cm) and for reaction speed ($0,16 \pm 0,01$ s). **Conclusion:** There were a significant relationship between explosive power and reaction speed in the subjects.

Keywords: explosive power, reaction speed, futsal players, Standing Broad Jump, Nelson Foot Reaction Time Test