

**DAMPAK PENERAPAN MODEL PERIODISASI BLOK TERHADAP  
PENINGKATAN KEMAMPUAN KEKUATAN MAKSIMAL OTOT  
BAGIAN ATAS (*UPPER BODY*)**

**SKRIPSI**

diajukan untuk memenuhi sebagian syarat memperoleh gelar Sarjana Program  
Studi Pendidikan Kepelatihan Olahraga



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UNIVERSITAS PENDIDIKAN INDONESIA  
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DAMPAK PENERAPAN MODEL PERIODISASI BLOK TERHADAP  
PENINGKATAN KEMAMPUAN KEKUATAN MAKSIMAL OTOT BAGIAN  
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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui dampak penerapan model periodisasi blok terhadap peningkatan kemampuan kekuatan maksimal otot bagian atas (*Upper Body*). Metode penelitian yang digunakan adalah metode eksperimen dengan desain penelitian *The one group pretest posttest design*. Populasi yang digunakan dalam penelitian ini adalah atlet Unit Kegiatan Mahasiswa futsal putri UPI dan sampel yang digunakan yaitu 12 orang atlet unit kegiatan mahasiswa futsal putri dengan menggunakan pendekatan *purposive sampling*. Instrumen yang digunakan dalam penelitian ini adalah *bench press*. Uji analisis data menggunakan *uji paired sample t test*. Hasil uji kelompok disimpulkan bahwa terdapat pengaruh yang signifikan terhadap dampak penerapan model periodisasi blok terhadap peningkatan kemampuan kekuatan maksimal otot bagian atas (*Upper Body*).

**Kata kunci:** futsal putri, kekuatan maximal, otot bagian atas, periodisasi blok

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***THE IMPACT OF THE APPLICATION OF THE BLOCK PERIODIZATION  
MODEL ON INCREASING THE MAXIMUM STRENGTH ABILITY OF  
THE UPPER BODY***

**ABSTRACT**

*This study aims to determine the impact of the application of the block periodization model on increasing the maximum strength of the upper (Upper Body) muscles. The research method used is an experimental method with a research design of One group pretest posttest design. The population used in this study was the UPI female futsal student activity unit and the sample used was 12 female futsal student activity athletes using a purposive sampling approach. The instrument used in this research is the bench press. Test data analysis using paired sample t test. The results of the Key group test that there is a significant effect on the impact of the application of the block periodization model on increasing the ability of the upper maximum strength (Upper Body).*

**keyword: block periodization, maximum strength, upper muscle body, women's futsal**

*\*)Students of the 2018 Sports Coaching Education Study Program Faculty of Sports and Health Education*

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## DAFTAR PUSTAKA

- Antretter, M., Färber, S., Immler, L., Perktold, M., Posch, D., Raschner, C., Wachholz, F., & Burtscher, M. (2019). The Hatfield-System versus the Weekly Undulating Periodised Resistance Training in trained males: Effects of a third mesocycle. *Journal of Human Sport and Exercise*, 14(3), 1–9. <https://doi.org/10.14198/jhse.2019.143.11>
- Artolomei, S. A. B., Offman, J. A. Y. R. H., & Erni, F. R. M. (2014). *A c t b p s t p t a*. 990–997.
- Bafirman, D., & Wahyuri, D. A. S. (2019). *Pembentukan Kondisi Fisik*.
- Baker, D. G., & Newton, R. U. (2006). Adaptations in upper-body maximal strength and power output resulting from long-term resistance training in experienced strength-power athletes. *Journal of Strength and Conditioning Research*, 20(3), 541–546. <https://doi.org/10.1519/R-16024.1>
- Bakken, T. A. (2013). *Effects of block periodization training versus traditional periodization training in trained cross country skiers*. 2012–2013.
- Bartolomei. (2015). *B w u p. r t p. w*. 37, 2679–2687.
- Bompa, T., & Buzzichelli, C. (2015). *Periodization Training for Sports-3rd Edition*.
- Bompa, T. O. (1999). Theory and methodology of training: the key to athletic performance. In *Pub. Co.,.*
- Budiwanto, S. (2012). *Metodologi Latihan Olahraga*. 283.
- DeWeese, B. H., Hornsby, G., Stone, M., & Stone, M. H. (2015). The training process: Planning for strength-power training in track and field. Part 2: Practical and applied aspects. *Journal of Sport and Health Science*, 4(4), 318–324. <https://doi.org/10.1016/j.jshs.2015.07.002>
- Fahrizqi, E. B., Gumantan, A., & Yuliandra, R. (2021). Pengaruh latihan sirkuit terhadap kekuatan tubuh bagian atas unit kegiatan mahasiswa olahraga panahan. *Multilateral : Jurnal Pendidikan Jasmani Dan Olahraga*, 20(1), 43. <https://doi.org/10.20527/multilateral.v20i1.9207>
- Gibson, M. H., & Pettitt, R. W. (1995). Science and practice of strength training. *Choice Reviews Online*, 33(04), 33-2191-33–2191. <https://doi.org/10.5860/choice.33-2191>

- Haff, G. G., Burgess, S. J., & Stone, M. H. (2008). Cluster Training: Theoretical and Practical Applications for the Strength and Conditioning Professional. *Uk Strength and Conditioning Association*, 12, 12–16.
- Harahap, N. (2020). *Buku Metodologi Penelitian Kualitatif*. January.
- Hartmann, H., Wirth, K., Keiner, M., Mickel, C., Sander, A., & Szilvas, E. (2015). Short-term Periodization Models: Effects on Strength and Speed-strength Performance. *Sports Medicine*, 45(10), 1373–1386.  
<https://doi.org/10.1007/s40279-015-0355-2>
- Inoue et al., 2016; Panissa et al., 2015; 2016). (2016). Endurance training intensity does not mediate interference to maximal lower-body strength gain during short-term concurrent training. *Frontiers in Physiology*, 7(NOV).  
<https://doi.org/10.3389/fphys.2016.00487>
- Issurin, V. (2008a). *Block periodization: breakthrough in sports training. Ultimate athlete concepts* (p. 228).
- Issurin, V. B. (2014). Periodization training from ancient precursors to structured block models. *Kinesiology: International Journal of Fundamental and Applied Kinesiology*, 46(Supplement 1), 3–9.
- Jack R. Fraenkel, Norman E. Wallen, H. H. H. i. (2012). *how to desgin and evaluate research in education*.
- Kraemer, W. J., Ratamess, N. A., & French, D. N. (2002). Resistance training for health and performance. *Current Sports Medicine Reports*, 1(3), 165–171.  
<https://doi.org/10.1249/00149619-200206000-00007>
- Mackenzie, B. (2008). *101 Tests D'Évaluations*.
- Mcclinton, A., & Liu, W. (2021). Bodyweight Upper Body Strength Training Improves All Dimensions Of Strength (Abstract). *Research Quarterly for Exercise and Sport*, 92(sup1), A-i-A-129.  
<https://doi.org/10.1080/02701367.2021.1898195>
- Moss, B. M., Refsnes, P. E., Abildgaard, A., Nicolaysen, K., & Jensen, J. (1997). Effects of maximal effort strength training with different loads on dynamic strength, cross-sectional area, load-power and load-velocity relationships. *European Journal of Applied Physiology and Occupational Physiology*, 75(3),

193–199. <https://doi.org/10.1007/s004210050147>

- Nasrulloh, A., & Wicaksono, I. S. (2020). Latihan bodyweight dengan total-body resistance exercise (TRX) dapat meningkatkan kekuatan otot. *Jurnal Keolahragaan*, 8(1), 52–62. <https://doi.org/10.21831/jk.v8i1.31208>
- Nusantara, B. P., & Widodo, A. (2020). Analisis Tingkat Kekuatan Otot Tubuh Bagian Atas Dan Tubuh Bagian Bawah Pada Member Pr60 Workout Center Surabaya. *Jurnal Kesehatan Masyarakat*, 8(1), 43–50. <https://ejournal.unesa.ac.id/index.php/jurnal-kesehatan-olahraga/article/view/32055/29075>
- Painter, K. B., Haff, G. G., Ramsey, M. W., McBride, J., Triplett, T., Sands, W. A., Lamont, H. S., Stone, M. E., & Stone, M. H. (2012). Strength gains: Block versus daily undulating periodization weight training among track and field athletes. *International Journal of Sports Physiology and Performance*, 7(2), 161–169. <https://doi.org/10.1123/ijsp.7.2.161>
- Petré, H., Löfving, P., & Psilander, N. (2018). The effect of two different concurrent training programs on strength and power gains in highly-trained individuals. *Journal of Sports Science and Medicine*, 17(2), 167–173.
- Rahnama, N., Bambaiechi, E., Khayambashi, K., & Jafarpour, S. (2009). A Comparison of Bmd Values in Upper Body, Dominant Leg and Non-Dominant Leg in Professional Female Handball and Futsal Players and Non-Athletes. 2(4), 205–209.
- Ribeiro, A. S., Do Nascimento, M. A., Salvador, E. P., Gurjão, A. L. D., Avelar, A., Ritti-Dias, R. M., Mayhew, J. L., & Cyrino, E. S. (2014). Reliability of one-repetition maximum test in untrained young adult men and women. *Isokinetics and Exercise Science*, 22(3), 175–182. <https://doi.org/10.3233/IES-140534>
- Robid, A., & Wijono. (2019). Perbandingan Speed Training Parachute Dengan Speed Resistance Band Terhadap Peningkatan Kecepatan Lari Pada Pemain Futsal. *Jurnal Prestasi Olahraga*, 2(4), 1–5.
- Royana, I. F. (2017). *Upgris Tim Futsal*. 2–19.
- Sell, A. (2020). Encyclopedia of Evolutionary Psychological Science. *Encyclopedia of Evolutionary Psychological Science*, December. <https://doi.org/10.1007/978-3-319-16999-6>

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- Sidik, D. Z. (2019). Kondisi Fisik. *Syria Studies*, 7(1), 37–72. [https://www.researchgate.net/publication/269107473\\_What\\_is\\_governance/link/548173090cf22525dcb61443/download%0Ahttp://www.econ.upf.edu/~reynal/Civilwars\\_12December2010.pdf%0Ahttps://thinkasia.org/handle/11540/8282%0Ahttps://www.jstor.org/stable/41857625](https://www.researchgate.net/publication/269107473_What_is_governance/link/548173090cf22525dcb61443/download%0Ahttp://www.econ.upf.edu/~reynal/Civilwars_12December2010.pdf%0Ahttps://thinkasia.org/handle/11540/8282%0Ahttps://www.jstor.org/stable/41857625)
- Sifa, C. (2012). *Strength Training ( Latihan Kekuatan ) Oleh : Faizal Chan , PORKES FKIP Universitas Jambi menempuh parameter dan alur periodisasi*. 1, 1–8.
- Smith, E. J. (2006). *The Strength-Based Counseling Model*. 34(1), 13–79. <https://doi.org/10.1177/0011000005277018>
- Springs, C., Training, C., & Springs, C. (2003). *Maximum Strength-Power-Performance*. 17(4), 739–745.
- Subarjah, H. (2013). Latihan Kondisi Fisik. *Educacion*, 53(9), 266–276. Suchomel, T. J., Nimphius, S., & Stone, M. H. (2016). The Importance of Muscular Strength in Athletic Performance. *Sports Medicine*, 46(10), 1419–1449. <https://doi.org/10.1007/s40279-016-0486-0>
- Suharjana. (2007). *156915-ID-latihan-beban-sebuah-metode-latihan-keku.pdf*.
- Taber, C., Bellon, C., Abbott, H., & Bingham, G. E. (2016). Roles of maximal strength and rate of force development in maximizing muscular power. *Strength and Conditioning Journal*, 38(1), 71–78. <https://doi.org/10.1519/SSC.0000000000000193>
- Taufik, M. S., & Suryakencana, U. (2021). *Sport Coaching* (Issue November 2020).
- Tiyawan, A., & Amelya, D. (2020). Pengaruh Aerobic Exercise Untuk Meningkatkan Upper Body Strength Pada Calon Jamaah Umrah. *Jurnal Ilmiah Fisioterapi*, 3(2), 24–29. <https://doi.org/10.36341/jif.v3i2.1314>
- Vladimir. (2016). Benefits and Limitations of Block Periodized Training Approaches to Athletes' Preparation: A Review. *Sports Medicine*, 46(3), 329–338. <https://doi.org/10.1007/s40279-015-0425-5>
- Williams, T. D., Toluoso, D. V., Fedewa, M. V., & Esco, M. R. (2017). Comparison of Periodized and Non-Periodized Resistance Training on Maximal Strength: A Meta-Analysis. *Sports Medicine*, 47(10), 2083–2100.