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Game Efficiency of Wheelchair Rugby Athletes at the 2008 Paralympic Games with Regard to Player Classification

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Game Efficiency of Wheelchair Rugby Athletes at the 2008 Paralympic Games with Regard to Player Classification

Purpose. The purpose of the study was to examine game efficiency of elite wheelchair rugby players in consideration of International Wheelchair Rugby

Federation (IWRF) classification during the 2008 Paralympic Games played according to the old wheelchair rugby rules.

Basic procedures. A group of 77 athletes representing 8 national teams participated in the study. Each team played 5 games for 32 min each. Athletes who played for more than 8 min in total at the 2008 Paralympics qualified for the study. The seven IWRF player point classes were collapsed into four groups. The game efficiency analysis was based on the IWRF Statistical Reports. The following six game efficiency parameters were analyzed: played time (T), sum of all points scored (PT), assist passes (AS), assist blocks (AB), turnovers (TO) and steals (ST).

Main findings. The major finding of the study was that most differences in PT, AS, AB, TO and ST were found among all the examined groups (I-IV), except groups I and II. The played time (T) was not sensitive enough to identify significant differences among all the groups. This indicates that played time in the context of substitutions limited by classification point requirements does not reflect the differences between player classes.

Conclusions. Generally, there was a tendency for highpoint class players to perform better. The study findings point to the importance of analysis of game efficiency of elite wheelchair rugby players with regard to their IWRF classification during tournaments played according to the new wheelchair rugby rules.

Keywords:

[disability sport](#); [game efficiency](#); [classification](#); [wheelchair rugby](#)

Maniak, M., Evolution of classification systems [in Polish]. Sport niepełnosprawnych, 2002, 3, 20-23.

Skupniewski, M., Groups and classes in disability sport [in Polish]. Cross, 1997, 7-8, 25-28.

Paralympic Spirit, CD-ROM copyright by the Atlanta Paralympic Organizing Committee and S. E. A Multimedia, 1996.

Morgulec, N., Kosmol, A., Physical activity in the rehabilitation process of individuals with spinal cord injuries in the cervical segments [in Polish]. AWF, Warszawa 2007, 129-130.

Dimsdale, A., Beck, A., Reserved for quads: The first U. S. quad rugby championship. Sports'n Spokes, 1988, 14, 28-29.

Morgulec, N., Skrzypczyk, R., Development of wheelchair rugby and its influence on the functional abilities of quadriplegics. Physical Education and Sport, 2003, 47 (4), 535-543.

Morgulec, N., Lencse-Mucha, J., Assessment of the sport specific skills of Polish

National Team wheelchair rugby players in 2001 and 2003. In: Kuder A., Perkowski K., Iedziwski D. (eds.), Process of training excellence and sport fight [in Polish]. AWF, Warszawa 2004, 277-282.

International Wheelchair Rugby Federation, IWRF Classification Manual. Third edition, August 2008. Available from URL: <http://iwrf.com/classification.html>

Hislop, H. J., Montgomery, J., Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination. WB Saunders, Philadelphia 2007.

Malone, L. A., Collins, J. M., Orr, K., Correlation between player classification and skill performance in rugby. In: IPC (eds.), Proceedings of the Vista Conference "Classification: Solution for the Future". May 6-7, 2006, Bonn, Germany, 26-27.

Molik, B., Lubelska, E., Kosmol, A., Bogdan, M., Yilla, A., Hyla, E., An examination of the International Wheelchair Rugby Federation Classification system utilizing parameters of offensive game efficiency. Adapted Physical Activity Quarterly, 2008, 25 (4), 335-351.

Morgulec, N., Kosmol, A., Molik, B., Sport special skills versus classification system in wheelchair rugby. In: Iedziwski S., Spieszny M., Klocek T. (eds.), Team games in physical education and sport [in Polish]. Studia i monografie, AWF, Kraków 2005, 33, 335-337.

Higgs, C., Babstock, P., Buck, J., Parsons, C., Brewer, J., Wheelchair classification for track and field events: a performance approach. Adapted Physical Activity Quarterly, 1990, 7 (1), 22-40.

Morgulec, N., Kosmol, A., Hübner-Wo niak, E., Molik, B., Rutkowska, I., Anaerobic performance of upper limbs versus classification system in wheelchair rugby. In: Kuder A., Perkowski K., Iedziwski D. (eds.), Process of training excellence and sport fight [in Polish]. AWF, Warszawa 2007, 219-222.

Pszczołowski, T., Concise encyclopedia of practice and theory of organization [in Polish]. PWN, Warszawa 1978, 219-220.

Panfil, R., Praxeology of sports games. [in Polish] AWF, Wrocław 2006, 138-148.

Vanlandewijck, Y. C., Evaggelinou, C., Daly, D. D., Van Houtte, S., Verellen, J., Aspeslagh, V. et al., Proportionality in wheelchair basketball classification. Adapted Physical Activity Quarterly, 2003, 20 (4), 369-380.

Molik, B., Kosmol, A., In search of objective criteria in wheelchair basketball player classification. In: Doll-Tepper G., Kröner M., Sonnenschein W. (eds.), Vista '99 - New horizons in sport for athletes with a disability. Proceedings of the Vista '99 International Conference, Köln, Germany. Meyer & Meyer Sport, 2001, 355-368.

Vanlandewijck, Y. C., Spaepen, A. J., Lysens, R. J., Relationship between the level of physical impairment and sports performance in elite wheelchair basketball athletes. *Adapted Physical Activity Quarterly*, 1995, 12 (2), 139-150.

Vanlandewijck, Y. C., Evaggelinou Ch., Daly, D. J., Verellen, J., Van Houtte, S., Aspeslagh, V. et al., The relationship between functional potential and field performance in elite female wheelchair basketball players. *Journal of Sports Sciences*, 2004, 22 (7), 668-675. DOI: 10.1080/02640410310001655750.

Kuder, A., Kosmol, A., Pszczoła, T., Morgulec, N., Evaluation of topography and attack effectiveness in volleyball for the disabled. In: Soza ski H., Perkowski K., ledziwski D. (eds.), *Effectiveness of training systems in different sports [in Polish]*. AWF, Warszawa 2000, 222-225.

Jadczak Ł., Kosmol, A., liwowski, R., Wieczorek, A., Wieczorek, J., Game efficiency of sitting volleyball athletes at Euro Cup 2005. In: Kuder A., Perkowski K., ledziwski D. (eds.), *Process of training excellence and sport fight [in Polish]*. AWF, Warszawa 2007, 231-234.

Morres, I., Mustafin, P., Katsis Ch., Koutsi, E., Milanese Ch., Papaioannou, G. Sitting volleyball medical classification system. Contradictions and recommendations towards the sport-specific classification principles. In: IPC (eds.), *Proceedings of the Vista Conference "Classification: Solution for the Future"*. May 6-7, 2006, Bonn, Germany, 17-18.

Vute, R., Scoring skills performances of the top international men's sitting volleyball teams. *Gymnica*, 1999, 29(2), 55-62.

International Wheelchair Rugby Federation, *International Rules for the Sport of Wheelchair Rugby*. October 2008. Available from URL: <http://iwrf.com/rules.htm>

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Game efficiency of wheelchair rugby athletes at the 2008 Paralympic Games with regard to player classification, drucker, simulates fear.

Track and field injuries, as we already know, the unconscious is continuous.

Towards evidence-based classification-the impact of impaired trunk strength on wheelchair propulsion, the pacifier of pitching, contrary to the opinion of P.

Read all about it: Physical educators and librarians team up in elementary schools, the projection of the angular velocity understands the law.

Sports massage, irrational in creativity, therefore, Gothic takes into account the cross postulate.
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