

Citation:

Hopkinson, M and Bissas, N and Nicholson, G and Beggs, C and Scantlebury, S and Hendricks, S and Jones, B (2019) Descriptions and definitions for the rugby league tackle. In: International society of performance sport analysis conference and workshop, 11 September 2019 - 13 September 2019, Budapest.

Link to Leeds Beckett Repository record: https://eprints.leedsbeckett.ac.uk/id/eprint/6197/

Document Version: Conference or Workshop Item (Published Version)

The aim of the Leeds Beckett Repository is to provide open access to our research, as required by funder policies and permitted by publishers and copyright law.

The Leeds Beckett repository holds a wide range of publications, each of which has been checked for copyright and the relevant embargo period has been applied by the Research Services team.

We operate on a standard take-down policy. If you are the author or publisher of an output and you would like it removed from the repository, please contact us and we will investigate on a case-by-case basis.

Each thesis in the repository has been cleared where necessary by the author for third party copyright. If you would like a thesis to be removed from the repository or believe there is an issue with copyright, please contact us on openaccess@leedsbeckett.ac.uk and we will investigate on a case-by-case basis.



SCRIPTIONS AND DEFINITIONS FOR THE RUGBY LEAGUE TACK



Mike Hopkinson¹, Bissas, A⁶, Nicholson, G¹, Beggs, C¹, Scantlebury, S^{1,4}, Hendricks, S^{1,2}, Jones, B^{1,2,3,4,5}

INTRODUCTION

Research within Rugby league (RL) tackle investigations using video analysis has often used two sources of variables. The exception being King et al (2010) who described the characteristics of the RL tackle event such as number of tacklers and tackle height of the first tackler. However, the majority of investigations have either adopted technical variables from rugby union (RU) tackle variables (Sperenza et al., 2017) or technical criteria from coaching cues (Gabbett, 2008). In doing so, content validity and relevance to RL could be questioned (O'Donoghue, 2014). The aim of this study was to adopt a 5 stage process to determine tackle variables which are valid and reliable for RL research.

METHODS

A 5 stage process was undertaken based upon recommendations by O'Donoghue (2014). STAGE 1 involved a synthesis of literature and examined phases of the tackle, variables describing the tackle descriptions of these variables research. A draft variable list was then developed before the start of STAGE 2. To achieve content validity and relevancy, STAGE 2 formed an expert group of practitioners to critique the previously formed draft variable list and develop new phases, variables and descriptors. STAGE 3 refined the variable list based upon the practitioner consultation. STAGE 4 established an expert group agreement in the refined variable list. Finally, STAGE 5 tested intra and inter-reliability of the list using Kappa statistics (McHugh, 2012).

RESULTS

The agreed variable list comprised of 6 phases including defensive start point, pre-contact, initial contact, post-contact and play the ball phases. Within the phases 66 variables were determined. The intra- and inter-reliability testing resulted in at least moderate agreement (>0.7) (McHugh, 2012) of all phases.



@mhopkinson5

• m.hopkinson@leedsbeckett.ac.uk

The 5 stage process resulted in an

agreed variable list comprising of

66 variables within 6 phases of a tackle.

The findings provide unique rugby

league specific variables to be used in

future research.

list.



Conference and research funding was supplied by the Carnegie School of Sport.



DISCUSSION

Due to possessing both strong relevance to an RL tackle and demonstrating good levels of reliability, researchers can be confident that the variables within the list are valid for research purposes (O'Donoghue, 2014). In addition, the rigorous 5 stage process of validating the content of the variable list should be used when determining different variables within different sports and actions for research purposes. In doing so, researchers can be confident that they are valid in use and thus can be used consistently for research purposes. Furthermore, the findings show that although there are similarities between a RU and RL tackle, clear differences exist and therefore justifies the need for specific RL variables during tackle research.

REFERENCES

Gabbett, T (2008). Influence on Tackling Technique in Rugby League Players. Journal of Strength and Conditioning Research. 22(2) 625-632.
King, D., Hume, A. P., & Clark, T. (2010). Video analysis of tackles in professional rugby league matches by player position, tackle height and tackle location. International Journal of Perf Anal in Sport, 10(3), 241-254.

McHugh, M. L. (2012). Interrater reliability: the kappa statistic. Biochemia Medica. 22(3). ODonoshue. P. (2014). Research Methods for Sports Perf Anal. International Journal of Performance Analysis in Sport

Speranza, M. J., Gabett, T. J., Greene, D. A., Johnston, R. D., & Townshend, A. D. (2017). Tackle characteristics and outcomes in match-play rugby league: the relationship with tackle ability and physical qualities. *Science and Med in Football*, 1(3), 265-271







Study findings:

- 1. The variable list comprised of 66 variables from 6 different tackle phases.
- 2. The 5 stage process was successful in creating variables which are both reliable and relevant.
- 3. The RL tackle is unique and requires specific variables to describe the scenario.

Please feel free to download the variables lists using the QR code on the e-poster.



