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Methodological Quality Profiles in Basketball: A Systematic Review of Studies based on Observational Methodology

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Oral presentation

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Abstract

Introduction: the application of observational methodology to basketball allows the organized record, quantification and analysis of behaviors displayed by players in the pitch, being commonly used in research due to its low intervention level and independence from standardized measurement tools. As scientific production based on observational methodology increases, so does the aim to assess its methodological quality. Recently, a methodological quality scale for studies based on observational methodology has been validated (MQSOM), being the first tool with adequate psychometric properties to measure the methodological quality of this studies. Objective: This work presents a systematic mixed study review that applies MQSOM in 220 primary studies based on observational methodology in basketball. Methods: Descriptive statistics of the main procedural characteristics were obtained, and proportion analysis were carried out. Finally, a two-step cluster analysis was carried out. Results: Proportion analysis provided significant differences in terms of observation type, observational design, observational instrument, codification manual specification, data type, recording, control and analysis software, type of parameter, data quality control, and analysis employed. Two-step cluster analysis showed methodological quality profiles in decreasing order based on MQSOM score. Conclusions: This work offers an updated image of the observational methodology applied in basketball, detailing future methodological quality improvements and presenting MQSOM as a valuable tool to assess the quality of intervention programs in sport based on observational methodology.

Keywords

Methodological quality, observational methodology, basketball.

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