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Observing System for sequence analysis of the behaviour of the goalkeeper in Handball

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The main goal of this study was to observe and characterize the performance of the Goalkeepers of the German Selection in the World Cup in 2007. In a qualitative and sequential dimension, based on the observational methodology, removing the maximum amount of information of the development of the game actions related to the organized attack, quick attack, counter attack and free of seven meters, seeking to identify patterns of behaviour in the defensive process in Handball.

To achieve those objectives a tool for ad hoc observation was built, which associated the field formats and categories systems. The validation of the contents of the instrument was performed by handball specialists, grade 3 coaches from the Federation of Handball. The observational sample consisted of eight games of the World Cup referenced in the problem and one more game of the World Cup in 2005. The use of the specific statistical tool SDIS-GSEG allowed the study of the reliability of this instrument, which showed values of concordance greater than 95.7%. The characterization of the interactions of defence was made of the events observed by detection of hidden patterns (T-pattern), using the software THEME 5.o.

With regard to the sample results produced by 1979 patterns of conduct of which we withdrew 82 incomplete ones to the present study, for a p< 0.01. The high degree of randomness and high number of technical-tactical actions did not allow to find full patterns. The study of incomplete patterns allowed, in a phased manner, to characterize the most usual defensive actions.

Key words: observational methodology, patterns of behaviour, goalkeepers, interaction of the game, handball