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Rate and Reduces Kicker's Decision Time

This research, developed by the

group for Analysis of Human

Movement, lead by Professor

that interact during a penalty

Antonio Oña of the University of

Granada, has analysed the elements

shootouts, including the movements

and the response and reaction of the

decision of the kicker when deciding

the direction of the shot. According to

their results, by studying the position

significantly increase the probabilities

of selecting a successful direction for

goalkeeper and the speed of the

of the goalkeeper in the instant

immediately before the shot may

the shot and reduces, in turn, the

In the first phase, the researcher

time of this decision process.

studied the movements of the

goalkeeper during a penalty shootout. Among the findings,

2005, he stresses that all the goalkeepers begin their final

published in the International Journal of Sport Psychology in

movement instants before the player kicks that ball because,

otherwise, they would not manage to reach it. These signals

exact moment when the player takes his last step before

Once the aspects regarding the goalkeeper have been

shooting, if the goalkeeper will jump towards his right or left

detected, a second phase of the study analysed the ability of

left, in this short space of time. They also observed if it was

the football player to decide if to hit the ball towards the right or

effective or not to show the movement pre-indexes to increase

success. They used a sample of 20 individuals for this study.

groups and two experimental groups), depending on whether

These were later divided into four sub-groups (two control

the players were experts or inexperienced, i.e. those who

occasionally play football and for leisure. The participants

goalkeepers and where the players had to simulate their

underwent two tests using a life-size projection of the

In the results obtained in the first test they did not find

significant results between the experienced players and the

after the test. After the initial test, the experimental groups

watched a video that clearly explained the goalkeeper's

movement pre-indexes. "During the informative film we

inexperienced ones. However, different results were obtained

explained where to focus, noting that when the kicker takes the

last step before the penalty, he should direct the shot towards

the area where the goalkeeper has the most extended knee,

since he will shift towards the opposite side," states Javier

In this sense, the decision time of the expert players in the

contrast, this decrease was barely significant in the control

experimental group passed from 275 to 189 milliseconds. By

groups that did not receive the information on the movement

As regards to the glances, the researchers registered in both

tests, by means of an eye tracking system, the point in which

The professionals and the inexperienced

were named "movement pre-indexes," and help us know, in the

ScienceDaily (Dec. 9, 2009) — A study shows that knowing the anticipatory movements of a goalkeeper before kicking the penalty reduces the decision time and increases the success rate when choosing the direction of the shot in football (soccer). The results, extracted from the second paper by researcher F. Javier Núñez Sánchez from the University Pablo Olavide (UPO), which he wrote for his thesis, have recently been published in the scientific journal *Perceptual and Motor Skills*.

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before hitting the ball.

penalty shot.

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http://www.sciencedaily.com/releases/2009/12/091209193325.htm

test their glances were, more or less, equally distributed. After viewing the explanations over 95% of the glances of the experimental groups were concentrated on area 3. Specifically, it is in this area, that the researchers, best observe where the goalkeeper extends his knee.	Search ScienceDaily	Number of stories in archives: 78,736	Copyright Reuters 2008. See Restrictions.	
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