Change of direction skills in elite football players in relation to speed qualities and competitive level

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Change of direction skills in elite football players in relation to speed qualities and competitive level

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INTRODUCTION:
It is well-established that football players during the course of a game perform intermittent exercise with changes in activity every 3–5 seconds.

Due to multiple brief intense actions involving jumps, turns, tackles, high speed runs, and sprints the game of football is physically demanding (Bangsbo, 1994), and requires a highly complex hybrid of physical fitness abilities, including speed, agility, and quickness. As such, change of direction (COD) skills of the individual player can be considered an important sub-component of overall physical performance capacity.

The ability to change direction multiple times at high speed is believed to be an independent measure of performance, and improvement in straight line sprinting speed does not appear to measure of performance, and improvement in straight line sprinting performance suggest that COD ability is an independent measure of performance, and that it should be tested accordingly. The COD test can reveal a difference between two levels of elite football players, and due to its high level of reproducibility, the COD test may serve as a valuable tool in the selection process of talented football players in the transition from youth to adult level elite football.

PURPOSE:
To develop and evaluate a COD-test involving multiple transitions from forward to backward high-speed movements in elite football players. Furthermore, to examine whether the COD-test can differentiate players competing at different performance levels.

RESULTS:
Adult elite players showed superior COD test performance (+4.2%) compared to youth elite players (p<0.05) (fig.3). Test results in the 5, 10, and 30 m sprint test showed no difference when the two levels of players were compared (AE vs. YE players, p>0.05) (tab.1). COD test performance was not related to the sprinting performance measures in either group of players (p>0.05) (tab. 1). COD test-retest performance in the YE group was not different and the CV was 1.1% (fig.4).

CONCLUSION/DISCUSSION:
The lack of relationship between COD and straight line sprinting performance suggest that COD ability is an independent measure of performance, and that it should be tested accordingly. The COD test can reveal a difference between two levels of elite football players, and due to its high level of reproducibility, the COD test may serve as a valuable tool in the selection process of talented football players in the transition from youth to adult level elite football.

REFERENCES:

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