

バスケットボールのジャンプシュート動作における 動的関節位の肉眼判定に関する研究

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A study on judgment by gross inspection of dynamic lower extremity position
 in jump shoot movement of basketball

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Abstract

Purpose: The purpose of this study is to examine gender differences in the dynamic lower extremity position judged by gross inspection, the effect of observation position on judgments, and the level of agreement between the judgments of different observers.

Methods: The movements for observation were a sequence of basketball actions: dribble, stride-stop, jump, shoot, and land. Six observers were paired as follows: two persons with experiences as both a basketball player and coach, two persons with experience as a basketball player, and two persons with experience as a fitness trainer. The subjects were indicated to perform the movements as usual. The paired observers watched the movements of each subject from three sites: an anterior view (0°), a lateral view (90°), and an oblique view (45°).

Results: (1) Women had a stronger tendency than men to extension and valgus position of the knee, and also to adduction of the ankle. Women demonstrated stronger knee-in and toe-out position of lower limbs than men. (2) Judgments on the rotation of the knee and ankle in the frontal plane varied widely when observed from the front (0°). Knee flexion angle was judged rather uniformly among the different viewing positions. Judgments on knee-in and toe-out varied more widely in observation from the front or the 45° angle than from the side (90°). (3) The differences in the judgments between observers were statistically significant for all dynamic lower extremity positions. Low kappa statistics mean that the agreement between the observers was low for all dynamic positions.

Conclusion: There were considerable gender differences in the dynamic lower extremity positions judged by gross inspection. The observer's position also affected the judgments. Agreement between the observers

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