

DIFFERENCES IN LOB TECHNIQUE BIOMECHANICS BETWEEN MALE AND FEMALE SL3 PARA-BADMINTON PLAYERS

by Tri Hadi Karyono, Duwi Kurnianto Pambudi, Sigit Nugroho, Riky Dwihandaka, dan Faidillah Kurniawan

ABSTRACT

This study aims to determine the biomechanical differences in lob technique between male and female SL3 para-badminton players.

This research uses a comparative study method, carried out by recording the lob movements carried out by the sample. The participants stand in the middle of the court to prepare to hit the shuttlecock served over the net from the opposite court by the feeder. Sample of hitting a lob/clear shot in the motion area. Video recording using a Nikon d300 and Canon G 10 camera positioned to record the kinematics of badminton lobs. The camera is placed in three positions. Camera 1 was installed 1 meter to the participant's right side and perpendicular. Camera 2 is installed near the target box which captures the shuttlecock's path to the target box to determine successful trials for analysis as well as capturing the feeder's movements to determine the speed of the shuttlecock. Camera 3 is behind the subject to capture the tilt position of the body when performing a badminton lob. The use of a camera is used to determine badminton lob movements. Then kinovea software is used to analyze badminton lob movements.

Based on the research results, it can be concluded that there is a difference in elbow angles between men and women in taking the lob technique.

Kata Kunci: *biomechanics, lob technique, para badminton SL3*