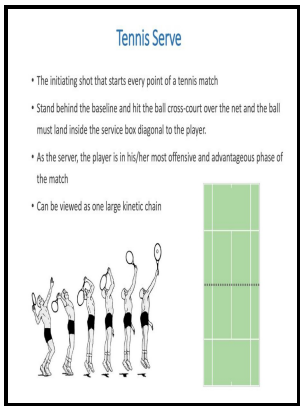
# Three-dimensional cinematographical analysis of the tennis service

## University of Birmingham - A three

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-three-dimensional cinematographical analysis of the tennis service
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**A mechanical and electromyographical analysis of the effects of various joint counterforce braces on the tennis player**

These particularities could induce an abdominal overwork that could explain the first injury and may provoke further injuries. Marks MR, Haas SS, Wiesel SW: Low back pain in the competitive tennis player.

**Comparison on the Kinematic Variables of Racket Movement According to Velocity in Tennis Serve**

Biomechanical analysis of the shoulder during tennis activities. A study of natural progression in athletes. This paper describes a simple computational procedure for determining angular displacement-time histories of human motion from three-dimensional cine data.

**A three**

This leg drive increased the angular displacement of the loop and therefore provided a greater distance over which the racket could be accelerated for impact. Legs are the start of the energy production from the lower limbs to the upper limbs Elliott and Colette, 1993; Elliott et al.

**Sports Biomechanical Research and Exploration on the Tennis Injuries**

THE KINETIC CHAIN IN THE TENNIS SERVE MOTION The serve is considered by many to be the most important shot in tennis. Department of Sport and Rehabilitation Sciences.

**Biomechanical Analysis of Abdominal Injury in Tennis Serves.**

We measured the racket velocity with the centroid of the three racket markers to better align the racket speed with ball impact location.

**A mechanical and electromyographical analysis of the effects of various joint counterforce braces on the tennis player**

Cite this paper as: Wan A. Department of Sport and Rehabilitation Sciences.

**Lower trunk kinematics and muscle activity during different types of tennis serves**

Similarities between the observations of the experienced eye and the 3D analysis are numerous. Each force plate measured 60 cm by 40 cm so the players were able to push on both feet for either foot-up or foot-back technique. .

**Comparison on the Kinematic Variables of Racket Movement According to Velocity in Tennis Serve**

We observe an important external rotation during the serve. We performed lower limb measurements on quadriceps Q and hamstrings H using protocol modalities based on previous studies Croisier et al. Thus in this paper, the game of badminton and the movement of players are studied in a real competition with spontaneous movements.

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