

**Singh, Vikram, 2011 Abstract**

## **EMG Analysis Of Upper Arm Muscles In Volleyball Players**

### **Objective**

The purpose of the study was the **Electromyographic (EMG)** analysis of upper arm muscles and their correlation with the performance of jump tennis service in volleyball players.

### **Results**

On the basis of results obtained, **EMG** analyses were helpful in determining the timing and quantity of muscle activation throughout a given movement of shoulder muscle activity in upper extremity sports.

### **Participants and Researcher**

A total of 12 male professional volleyball players were selected as a sampling frame and their age was ranging from 16 to 28 years.

The researcher was Dr. Vikram Singh, Associate Professor, Department of Physical Education, Banaras Hindu University, Varanasi, Uttar Pradesh, India.

### **Methods**

Before the actual testing, the subjects were given a complete demonstration of each test and the purpose of the tests was explained in detail to them. After the demonstration and explanation, electrode points were marked in the presence of specialized persons and physiotherapist, and then subjects were allowed to take practice trials in order to get familiar with the test. The data was collected only for jump tennis service performance in the court.

The data for the selected muscles was obtained with the help of the instrument **NeuroTrac MyoPlus4** (Verity Medical) operated by the investigator at the performance of jump tennis service test.

The full abstract can be found at

[https://www.researchgate.net/publication/340731110\\_Electromyographic\\_Analysis\\_of\\_Upper\\_Arm\\_Muscles\\_and\\_their\\_Correlation\\_with\\_the\\_Performance\\_of\\_Jump\\_Tennis\\_Service\\_in\\_Volleyball](https://www.researchgate.net/publication/340731110_Electromyographic_Analysis_of_Upper_Arm_Muscles_and_their_Correlation_with_the_Performance_of_Jump_Tennis_Service_in_Volleyball)