

## **THE INFLUENCE OF THE MORPHOLOGICAL CHARACTERISTICS ON THE EFFICIENCY OF THE TECHNICAL ELEMENTS PERFORMANCE IN KICKBOXING DISCIPLINES FULL CONTACT AND LOW KICK IN REAL FIGHTS**

### **Abstract**

*Research is made on sample of 78 examinees, participants on the Balkan's championship in kickboxing from Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Macedonia, Montenegro and Serbia, aged from 18 to 33 years, that took place in Tešanj (B&H) in 2007. On the championship, in each category participated one competitor who is the winner of the national championship at the country he represents coming from different weight categories. For this research we applied the system with the 42 variables, from which 37 are technical elements variables, 4 are morphological characteristic variables and 2 are independent variables that signify the age of the examinees and their victories on the championship. This research was carried out with the goal of establishing the influence of the morphological characteristics on the efficiency of the technical elements performance in kickboxing disciplines Full Contact and Low Kick. Morphological characteristics had the status of the logical predictors while recorded actions had the status of the logical criterions. Given variables were estimated by the three competent assessors with the special protocol. All fights were recorded with two digital cameras covering from two angles. With multiple regressive analyses the relations between morphological characteristics and technical elements were established.*

**Key words:** *kickboxing, morphology, technical elements*

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