

## Abstract

### **Title:**

Specifics of laser and real firing from a small arms.

### **Goal:**

The aim of this study to gather information about real and laser shooting from small arms in connection with human physiology and biomechanics. The main benefit of a systematic grasp of the issue as an understanding of comprehensive information. To compare their differences, or to eventually laser-shooting as an instrument for testing soldiers in the Army of the Czech Republic.

### **Methods:**

Literature search, which deals with the issue of shooting. For the elaboration of this work, the search for study sources was used, followed by their analysis and subsequent search of these obtained study sources.

### **Results:**

The result of this work is a comprehensive understanding of shooting from real and laser weapons in terms of biomechanics and human physiology and its impact on shooting performance. When comparing real and laser shooting, no significant penetration into the issue was found due to the insufficient number of sources and information about laser shooting. For this reason, a greater representation of the laser weapon cannot be justified in this work at the expense of the real weapon in the Army of the Czech Republic system, even though the use of laser weapons in training is a cheaper financial issue in the long run.

### **Key words:**

Army, weapon, laser, testing, physiology and psychology of shooting, precision.