

ABSTRACT

Title: The Relationship between verbal intervention and postural stability

Objective: To evaluate whether there is a relationship between verbal intervention and manifestations of postural stability.

Methods: In the submitted work, 3 research investigations were carried out. The first investigation involved 185 probands (84 men) and was focused on verifying the effect of psychological priming. The Posturograph STP-03 was used to assess postural stability. Probands were randomly divided into three groups and each received different information about the difficulty of the upcoming task. An electrodermal activity data was recorded during the investigation. The second investigation involved 88 probands (45 men) and was aimed at verifying the effect of persuasive communication. The test of postural stability was to remain in a standing position measured on a 3 cm wide beam. Probands were randomly divided into two groups. The groups received the opposite verbal intervention during the test. 142 probands (83 men) took part in the third investigation. It was aimed at verifying the effect of persuasive communication during more significant stimulation of the current psychological state. The test of postural stability was to remain in a standing position measured on a 3 cm wide beam on an 80 cm high platform.

Results: The effect of verbal intervention was statistically confirmed only in the case of persuasive communication when the same task was repeated. During the intervention of persuasive communication on a raised platform differences between groups were not confirmed. However, interesting differences between men and women were found. The effect of psychological priming in the postural stability test was not confirmed. On the contrary, it turned out to be the most appropriate to omit the verbal intervention before the test. In addition to statistically insignificant differences, specific trends in the functioning of the mentioned concepts of specific communication were indicated. However, the relationship between priming and activation remains unclear.

Keywords: psychological priming, persuasive communication, postural stability