VALIDITY OF A SPECIAL JUDO FITNESS TEST IN IRANIAN MALE WRESTLERS
Mohammad Karimi, Abolfazl Khaki, Samaneh Beyk Mohammadi
Qom University of Technology, Qom, Iran
m.karimi2203@gmail.com

Introduction: Many measurement techniques have been used to quantify anaerobic power. In the assessment of high intensity exercise performance, strong linear relationships have been recorded between laboratory and field measures of anaerobic ability. The use of field tests for anaerobic power assessment has more application as a sport-specific test than cycle or treadmill tests. Wrestling as a high physiological demanding sport has few physical fitness specific tests, but there are standard tests in other sports, which can be used in wrestling. The Special Judo Fitness Test (SJFT) was first described by S. Sterkowicz (Test specjalnej sprawności ruchowej w judo. Antropomotoryka, 1995; 12: 29–44) and the Bruneau questionnaire (BRUMS) respectively. Statistical comparisons were made using Covariance analysis (ANCOVA). The level of significance was set at P≤0.05.

Results: The results show that there is significant difference between groups in serotonin levels (P>0.0001) and mood disturbance scores (P=0.0001); although there is no significant relationship between serotonin levels and mood disturbance scores (r=0.19; P=0.54)

Conclusions: In conclusion it seems that doing yoga training concurrent with heavy wrestling training in pre-competition phase of competition season may be affected some psychological indices contributed with OTS.

Keywords: Overtraining, Yoga, Serotonin, Mood State

SEROGENIN AND MOOD STATE CHANGES IN RESPONSE TO A PERIOD OF YOGA TRAINING IN WELL-TRAINED WRESTLERS
Mohammad Karimi1, Ali Yazdani Noori2
1 Qom University of Technology, Qom, Iran, 2 Department of Physical Education and Sport Sciences, Mahallat Branch, Islamic Azad University, Mahallat, Iran
m.karimi2203@gmail.com

Introduction: Overtraining Syndrome (OTS) is accompanied by changes of some neurotransmitters, immune suppression and increase mood disturbances. Yoga may be a perfect strategy to prevention of OTS.

Objective: The purpose of this study was to describe changes of plasma levels of serotonin and mood state, after a period of yoga training in well-trained wrestlers.

Methods: Twenty four volunteered well-trained wrestlers (age 21.7±2.3; weight 69.2±6.8 and fat% 11.3±1.4) participated in the present study and were divided randomly into two equal groups; control (regular training) and experimental (yoga training concomitant with regular training). The subjects completed eight weeks of yoga training concurrent with wrestling training, three sessions per week, 60-75 min each session. Blood samples were collected from all participants, before and after yoga training. Plasma levels of serotonin and mood state were evaluated using standard commercial ELISA kits and the Brunel questionnaire (BRUMS) respectively. Statistical comparisons were made using Covariance analysis (ANCOVA). The level of significance was set at P<0.05.

Results: The results showed that there is a significant relationship between two tests in blood lactate concentration from rest to 3 minutes after trials (r=0.88, P<0.01). Also, a significant relationship was observed between changes of two tests in blood lactate concentration from rest to 3 minutes after trials (r=0.89, P<0.01).

Conclusions: In conclusion it seems that doing yoga training concurrent with heavy wrestling training in pre-competition phase of competition season may be affected some psychological indices contributed with OTS.

Keywords: Overtraining, Yoga, Serotonin, Mood State