



Rotator Cuff Strength is not Augmented by Blood Flow Restriction Training

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Editorial Note

Blood inflow restriction training or occlusion training or KAATSU is an exercise and recuperation modality whereby resistance exercises, aerobic exercise or physical remedy movements are performed whilst using an occlusion cuff is applied to proximal aspect of the muscle on either the arms or legs. In this new training system developed in Japan by Dr. Yoshiaki Sato in 1966, branch venous blood inflow is confined via the occlusion cuff throughout the compression cycle and rest period. This result is partial restriction of arterial flux to muscle, but, utmost significantly restricts venous exodus from the muscle. Given the light-cargo nature and strengthening capacity of BFR training, it can give an effective clinical recuperation encouragement without the high situations of joint stress and cardiovascular threat associated with heavy cargo training. Numerous interpreters include physical therapists, orthopedic surgeons, chiropractors, coaches, trainers and athletes. Druggies include individualities that are injured and impaired. Occlusion Bond is of colorful extents. The use of occlusion bond is grounded on published scientific literature. The current approaches that concentrate on applying BFR during exercise correspond of automatic curvaceous tourniquet systems or handheld inflatable bias. Research demonstrating the influence of ham circumference and cuff range on occlusion pressure has accentuated a

likely need for an individualized approach to BFR, particularly with regard to the setting of the restriction pressure.

Blood Inflow Restriction (BFR) training utilizes a tourniquet applied to the upper or lower extremities to block blood inflow while exercising. BFR training may help compound strength in muscles that are proximal to BFR cuff operation. Still, previous studies have failed to demonstrate stoked strength earnings in the rotator cuff when the tourniquet is applied to the UE. The purpose of this study was to estimate if a protocol conforming of LE exercises, performed with BFR, followed by rotator cuff exercises was superior in accelerating strength, and Cross-Sectional Area (CSA) of the rectus femoris, in untrained subjects when compared to an on BFR training group. This 8-week study will probe whether the operation of Blood Inflow Restriction (BFR) remedy augments rotator cuff strength in untrained individualities. This is a RCT with subjects randomized to a BFR or anon BFR group. Both groups will perform the same training program 2 times a week over 8 weeks with one group performing the lower extremity exercises under occlusion. Prior to starting the study the subjects will have their strength assessed by a dazed physical therapist using a hand held dynamometer. The muscles assessed will be the quadriceps, the hamstrings, the supraspinatus, and the external rotators of the shoulder. Another dazed physical therapist will assess the cross-sectional area of the quadriceps and the supraspinatus tendon using ultrasonography. These tests will be repeated at the conclusion of the study. Subjects' training weight will be 30 of their 1 Reiteration Maximum (1RM). 1RM will be determined using hand held dumbbells for the shoulder exercises and machines for the lower extremity exercises.

Subjects will be randomized to either the BFR or non-BFR group. Subjects in the BFR group will perform the lower extremity exercises under occlusion. Both groups will perform 4 sets of each lower extremity exercise. After completing the lower extremity exercises the subjects will perform the shoulder exercises for 3 sets of 15 reiterations each. The shoulder exercises won't be performed with BFR in either group.

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