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Cross friction massage ankle

Mobarakeh M, Mehdi, Hafidz H. J. O. A. Effect of Friction Technique on Ankle Sprain Grade II Treatment. Biomed Pharmacol J 2015;8(2) Manuscript received on: P published online on: 09-01-2016 Plagiarism Check: Yes How to Citeclose | Publication History includes views: (Visited 7,116 times, 1 visits today) PDF Downloads: 1792 Mohammadi Mobarakeh, Mehdi and HJ Omar Abdul Hafidz Faculty of Bioscience and Medical Engineering, Centre for Sport Innovation and Technology. University Technology Malaysia, Malaysia. DOI: Abstract ankle thrust is the most common injury in sports activities. When this has happened, accurate diagnosis needs to be taken care of. Failure to do so will lead to ligaments sprawling, instability and losing balance especially in walking. This study examines the effect of friction technique on sprained ankle (grade II). Friction is one of the most suitable technique on sprained ankle (grade II). Patients were divided into two groups. Experimental group received sports massage and friction massages on their ankles administered by a sports rehabilitation specialist and professional massage. The control group used single-brace. Effleurage technique has used as warming section. Data was analyzed using peddle-t-test. Findings show that treatment (massage) group had a major impact (P-value <0.05) compared to control group. The implications of this study provide this protocol as a most effective treatment for single spout grade II. Keywords Massage Therapy; Friction technique; Ankle sprain Download this article as: Copy the following to adopt this article: Mobarakeh M, Mehdi, Hafidz H. J. O. A. Effect of Friction Technique on Ankle Sprain Grade II Treatment. Biomed Pharmacol J 2015;8(2) Copy the following to adopt this URL: Mobarakeh M, Mehdi, Hafidz H. J. O. A. Effect of Friction Technique on Ankle Sprain Grade II Treatment. Biomed Pharmacol J 2015;8(2). Available from: Introduction Sprained ankle, also known as an ankle sprain, twisted ankle, rolled ankle, rolled ankle, ankle injury or ankle ligament injury, is a common medical condition where one or more of the ligaments of the ankle are torn or partially torn[1]. A downsy is an injury to a ligament. Ligaments are strong tissue around joints that attach bones together and give support to joints. A ligament can be injured, usually stretched through during a sudden The ligament caused swelling, and bleeding (bruises) around the affected joint. Movement of the ankle joint is painful if you have a sprained ankle[3]. Sprained ankles are the most common type of musculoskeletal injury seen by primary-care providers. More than 23,000 people every day in the United States require medical care for ankle thestifications [4]. Single thouts are common sports injuries, but also happen during everyday activities[5]. An unnatural twisting movement of the ankle joint can happen when the foot is planted awkwardly, when the soil is uneven, or when an unusual amount of force is applied to the joint. Expirements happen when the foot is rolled or turned outside movements that are considered normal for the ankle. An ankle thout usually occurs when a person lands from jumping or running on an uneven surface. If the ankle keep the ankle ligaments of the ligaments of the ankle ligaments of the ankle ligaments of the ligaments of the ankle ligaments of the ankle ligaments of the ligaments of the ankle ligaments of the ankle ligaments of the ankle ligaments of the ligaments of the ankle ligaments of rolling of the foot[6]. Sports rehabilitation is an important part of treating sports injuries[7]. A rehabilitation programme aims to return the injured body part to normal function by gradually introducing it to movement and exercise[8]. With most sports injuries, it helps move the injured part as soon as possible to help speed up the healing process. Soft exercises should help improve the area's variety of movement. As movement becomes easier and the pain decreases, stretching and strengthening of exercises can be introduced. During the rehabilitation process, you should not try to do too much and too quickly. Start by doing regular repetitions of a few simple exercises before gradually increasing the amount you do[9]. Avoid painful activities and high intensity exercise until pain is removed, and full strength and flexibility have returned to the injured area [10]. Some coaches and experts in rehabilitation believe that massage is used as pre-exercise activities to improve performance, reduce the risk of exercise and muscle damage and sports rehabilitation programs. Massage is very good method of boosting blood flow to muscle and increase muscle temperature [11], so is appropriate for rehabilitation programs. Wassage can also reduce tissue adhesion and to improve muscle flexibility [13], which can help improve injury and remove risk factors [14]. Method In this study, effectiveness of massage therapy protocol on the patients with ankle thour II was determined by examining ROM, strength and balance in the sprained single grade II. This study was conducted on 24 male male aged 20-25. Patients were divided to two groups, including non-training group (control group) and experimental group (massage group) and each group contained 12 patients. Control group or not training group applied effleurage massage for warm-up and then used friction massage over the injured ligaments. The duration of treatment was 8 weeks for both groups. Pre test and post testing done by evaluating ROM, strength and balance in pre test and post test phase (before and after treatment). The first test is evolution of the range of movement (ROM) test (Figure 1). Patients should do thirst reflection, plant arxexion, inversion and eversion and evers strength. This test performed with all the movements of ankle included: arid reflection, plantar bend, inversion and eternity. Ask patients sitting on the floor with straight leg, for thirstiflexion, anchor the tape to the wall or chair and wrap it around the foot. Patient should pull his toes in the direction and slowly return to the starting position and repeat. For plantar bending, wrap the tape around the patient foot and he should keep the end in his hands. Then gently ask him to push toes and return to start position. For inversion and eversion, attach tape to safe object and end to front foot. Pull foot inwards and outwards and outwards and return to start position. For inversion and eversion, attach tape to safe object and end to front foot. figure Last training in pre-test is ankle balance test that is performed on woolly board (Figure 3) and meting has taken in one leg (scattered ankle) with knees bent slightly, feet shoulder width apart and trunk upright. Maintain this position while balancing the board, trying to keep either side from touching the ground. Then stand on one leg in the middle of the rocker or woolly board, trying to hold either side to touch the ground while maintaining upright posture. Result Effect of massage therapy on ROM A paused samples t-test was conducted to compare massage group and control group in 8 weeks rehabilitation program. There is a significant difference in the results of thirst reflection in massage group (M = 26.52, SD=0.29580) and control group (M = 19.87, SD = 0. 17645) conditions; t(11)=74.561, p = 0.000. Also indicated there is a significant difference in the results of plantarflexion in massage group (M = 41.5000, and control group (M=36.9417, SD=0.14434) conditions; t(11)=35.235, p=0.000. When examining the inversion result, There is a significant difference in the results of inversion in massage group (M = 17.1833, SD = 0.79411) and control group (M = 17.1833, SD = 0.794111) and con results of eternity in massage group (M = 14.4500, SD = 0.23160) and control group (M = 11.3917, SD = 0.50715) conditions; t(11) = 16.810, p = 0.000. Result shows in Table (3.1). Hence, based on this finding, there is significant effect of massage therapy on improving ROM in single-spout grade II. Table 3.1: Pawed samples test from ROM in massage group compared to control group. Means N Std. Departure Std. Error means pair 1 post Dorsiflexion Massage 26.5250 12 .29580 .08539 Post Dorsiflexion Control 36.9417 12 .14434 .04167 Pair 3 Post Inversion Massage 17.18 12 .18434 .04167 Pair 3 Post Inversion Massage 17.18 12 .79411 .22924 Post Inversion Control 13.6333 12 .29644 .08558 Pair 4 Post Eversion Massage 14.4500 12 .23160 .06686 Post Eversion =16.29±3.88 Standard average of Inversion=16.29±3.88 Standard average of Eversion Filexion=40.92±4.32 Standard average of Inversion Control 11.3917 12 .20644 .08558 Pair 4 Post Eversion Filexion=15.87±4.45 Paved differences t df Sight. Average Std. Deviation Std. Fault means 95% Confidence Interval of the difference Lower Above pair 1 post Dorsiflexion Massage Post platarflextion Massage Post platarflextion Control 4.55833 .44814 .12937 4.27360 4.84307 35.235 11 . 3000 Pair 3 Post Inversion Massage Post Inversion Control 3.55000 .83612 .24137 3.01876 4.08124 14.708 11 .000 Pair 4 Post Eversion Control 3.05833 .63024 .18193 2.65790 3.45877 16.8 1 As 11 .000 Effect of massage therapy on single strength As can be seen in Table 3.2 a paused samples t-test was conducted to compare massage group and control group in 8weeks rehabilitation program. There is a significant difference in the results of strength in massage group (M = 11.33, SD = 0.888) and control group in 8weeks rehabilitation program. There is a significant difference in the results of strength in massage group (M = 11.33, SD = 0.888) and control group in 8weeks rehabilitation program. in single spout grade II. Table 3.2: Pawed samples test of force in massage 2.58 12 .669 .193 pre thera band Control 2.50 12 .674 .195 Pair 2 Post thera band Massage 2.11 .33 12 .888 .256 post thera band Control 7.58 12 .669 .193 Suitable Samples Test Paired Differences t df Sight. (2-tail) Std. Deviation Std. Error means 95% confidence interval of the difference lower upper pair 1 1 pre thera band Control 3.750 1.215 .351 2.9 4.522 10.688 11 .000 Effect of massage therapy on balance As can be seen in Table 3.3 a paused t-test was conducted to compare massage group and control group in 8weeks rehabilitation program. There is a significant difference in the results of balance in massage group (M = 6.83, SD=0.937) and control group (M = 5.17, SD=0.937) conditions; t(11)= 5.863, p = 0.000. From there, based on this finding, there is significant effect of massage therapy on improved balance in single spout grade II. Table 3.3: Pawed samples test of balance in massage group compared to control group. Means N Std. Departure Std. Error means pair 1 Pre WBSA Massage .75 12 .754 .218 Pre WBSA Control 1.00 12 .739 .213 Pair 2 Post WBSA Massage 16.83 12 .937 .271 Post WBSA Control 5.17 12 .937 .271 Appropriate Samples Test Paired Difference Lower Upper pair 1 Pre WBSA Massage Pre WBSA Control -.250 1.055 .305 -.920 .420 -.821 11 .429 Pair 2 Post WBSA Massage Post WBSA Control 1.667 .985 .284 1.041 2.292 5.863 11 .000 Finding and Discussion Although much research has been done on single rehabilitation, but because of the importance of being collaborative and it is harm there is still needed to do study on various rehabilitation techniques. Massage is the one of the most important rehabilitation technique used in this study. Massage is believed to benefit athletes by improving performance and recovery, as well as promoting recreation through biomechanical, physiological, neurological, neurological mechanisms. The aim of this study was to investigate the effect of massage on improving balance after single-spout grade II rehabilitation. Massage has highly relationships with muscle and connective tissue relaxation so when muscle and lead to a long time will increase in ROM[15]. Effleurage technique as a warm-up technique as used to remove adhesion from injured muscles and ligament. On the other hand, massage is associated passive movement in single joint. Passive training helps to single muscles and ligaments to increase ROM by creating continuous stretches. The mechanical pressure of massage is generally used to treat fans or contracted connective tissue to restore fibres to a more normal alignment. The finding of study shown that massage has an excellent effect on muscle flexibility and and tissues that they have a high relationship with ROM and improve performance. According to the results and statistical data analysis, massage has suitable and meaningful influence on the extent of the movement of injured joint and is also an optimal treatment method for improving and enlightening spout grade II (P-Value & mp; It; 0.05). Effect of massage on ROM to Dorsiflexion with the average 26.52 ±0.29 is the largest after combined group. Also when evaluating the effectiveness of massage on ROM to Plantarflexion, the massage therapy group with the average 41.50°±0.35 has the largest value after combined group. After examining the effectiveness of massage in Inversion with the average 17.18°±0.79 and in Eversion with the average 14.45°±0.23 had a major impact in increasing the ROM from single joint after release from single joint after release from single spathing grade II. As biomechanical pressure and stretching in tissues can be effective at reducing adhesion and stiffness and increasing muscle fulfil. The muscles and connective tissue are not yet at their full strength and the area remains subject to re-injuries. With stretching and strength training is essential for the full recovery of the muscles and connective tissue. Strength training should start gently and increase progressively. When applying massage to improve muscle strength, actually patients are taken advantage of both internal and external resistance provided from therapist and muscle. This means that when patient tries to move the foot (Internally), face getting external resistance through therapist. Due to data analysis, the muscle strength in massage therapy group has improved more than control group. Result showed that massage therapy group with the average (M = 11.33, SD = 0.888), the effects were significant. The sprained ligaments lose the ability to communicate effectively with brains. The result is decreased coordination of the ankle. On the other hand after ankle thestimation, instability of ankle joint because the ligament tears and laxity increased. As previously mentioned, massage is a very effective method of improving muscle strength and ROM, and both have a direct relationship with balance further mechanical pressure from massage helps to remove fans and muscle posma in order to more normal alignment. Therefore, when ROM, muscle strength and stability of single joint improve, consequently, balance will develop. Data analysis showed that massage therapy can be effective on single spout grade II and because of its significant effect on the factors associated with Grade II increased the rate of treatment. The results of the balance in massage group showed that the massage treatment group had a significant difference with the control group (P-Value <0.05). Further compared to the balance time before and after massage therapy as a traditional therapy is effective method to ankle thouttification rehabilitation. As can be seen from data analysis, there is a significant difference between results from the ROM test, strength test (therapy tape) and balance testing (WBSA) after treatment and before that. Also the rate of improvement after treatment in control group is no comparable to massage group and this means that massage is a most effective rehabilitation method to improve single spout grade II as the bracing and not training method. Conclusion Although there are some studies on the effect of massage in ankle injuries, but most research is corroborant of effect of massage that has been used for centuries in an attempt to prevent and cure injuries [15][16][17][18]. The result of this research has shown that there is a significant difference between massage group was much better than the non training (bracing) group. 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