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Exercises on a balance cushion to influence of lumbar vertebral syndrome V.1

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We use this protocol and it's working

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Keywords: exercises; balance cushion; low back pain, lumbar vertebral syndrome, mobility in the lumbar spine, lumbar spine, participants with low back pain, pain in lumbar vertebral syndrome, influence of lumbar vertebral syndrome background, treating low back pain, balance cushion, low back pain, pain in the lumbar region, lumbar vertebral syndrome background, lumbar region, lower back, application of exercise, exercise, straight leg raise test, causes of low back pain, measurement of lateral flexion, trigger points in the lower back, reduction of pain, manual manipulation techniques on each patient, lateral flexion, balance cushion, restoration of normal mobility, tests to the patient

Abstract

Background: The pain in the lumbar region is common. One of the causes of low back pain is lumbar vertebral syndrome. There is a wide range of options for treating low back pain. The purpose of the study is to describe exercises on a balance cushion to influence the pain in lumbar vertebral syndrome and to track the effect of their application.

Methods: We studied 20 participants with low back pain. We applied the following tests to the patients: visual analogue scale, Schober test, measurement of lateral flexion and Straight leg raise test. The methodology includes exercises on a balance cushion. We performed manual manipulation techniques on each patient by treating trigger points in the lower back and buttocks once a week.

Results: We achieved an improvement in the studied indicators after the applied therapy, which was expressed in a reduction of pain and restoration of normal mobility in the lumbar region.

Conclusions: The application of exercises on a balance cushion allows in a short time to affect the pain and mobility in the lumbar spine to fully perform their work and professional activities.

Guidelines

Exercises on a balance cushion are done every day several times a day for 10 minutes. Those who work for a long time in a sitting position are recommended to sit on a balance cushion

Materials

In this study we use a balance cushion Circular movements with the pelvis...

Elevation of the pelvis to the left an...

Increase the inclination of the pelvi...

Troubleshooting



Before start

Before starting the study, we familiarized the patients with the nature of the study. After approval by the ethics committee and obtaining written informed consent from the patients, we proceeded to perform the study.



Research

- 1 We evaluate the condition of each patient by examining the degree of pain (according to the VAS), the mobility of lumbar spine (Schober test and lateral slope) and the presence of neurological symptoms (with Straight leg raise test).
- 2 Each patients performs exercises on a balance cushion for a period of one month. The exercises are: inclination and declination on a balance cushion, elevation of the pelvis to the left and to the right and circular movement of the pelvis on a balance cushion.
- 3 Once a week we perform a manipulative massage and treatment of trigger points of the lumbar spine, buttocks and thighs.
- 4 After one month we applied the same test as at the beginning (VAS, Schober test, lateral slopes and Straight leg raise test).
 - VAS- a 10-point pain scale which the patient determines the pain they feel.
 - Schober test- reflect mobility in the lumbar spine. From L4 measure 10 cm cranially, it is noted. The patient leans over and the distance traveled is measured. Normally is 3-4 cm. Lateral slopes- Slopes to the left and right are measured. The subject is bent to the side and the distance from the tip of middle finger to the floor is measured.
 - Straight leg raise test- The leg is raised with the knee extended. If pain occurs between 30-70 degree, the pain is neurological.
 - We evaluated the dynamics of the studied indicators- before and after the therapy.
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