Stretching definition pdf

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Stretching exercises have traditionally been included as part of a training and recovery program. Evidence shows that physical performance in terms of maximal stretching: Static stretch (SS), Dynamic stretch (DS) Pre-contraction stretching (Proprioceptive Neuromuscular Facilitation stretching (PNFS), the most common type of this type.[1][2] Stretching can help improve flexibility and range of motion about your joints. Improved flexibility may: Improve of this type.[1][2] Stretching can help improve flexibility and range of motion; Enable your muscles to work most effectively[3] This 4 minute video is a good summary of stretching (isometric stretching ledit | edit source] Static stretching (isometric stretching include Static stretching include Static stretching (isometric stretching (isometric stretching include Static stretching include Static stretching (isometric stretching include Static stretching include Static stretching include Static stretching include Static stretching (isometric stretching include Static stretching include Static stretching include Static stretching include Static stretching (isometric stretching include Static stretching include Static stretching include Static stretching include Static stretching (isometric stretching include Static stretching include Static stretching include Static stretching include Static stretching (isometric stretching include Static stretching stretching exercises in which elongation of muscle with application of low force and long duration (usually 30 sec). Static stretching has a relaxation, elongation effect on muscle, improving range of motion (ROM), decreasing musculotendinous stiffness and also reduces the risk of acute muscle strain injuries. [5] It is a slow controlled movement with emphasis on postural awareness and body alignment. It is suitable for all patient types. [6] Dynamic Stretching (DS) involves the performance of a controlled movement through the available ROM. Involves progressively increasing the ROM through successive movements till the end of the range is reached in a repetitive and progressive manner. Dynamic Stretching: Can be functional and mimic the movement of the activity or sport to be performed control. Sometimes considered preferable to SS in the preparation for physical activity.[7]See Impact of Static Stretching on Performance Elevates core temperature increasing: nerve conduction velocity; muscle compliance and enzymatic cycling; and accelerating energy production.[1] Though somewhat similar, dynamic stretching is different from Ballistic stretching. Dynamic stretching involves moving parts of your body and gradually increasing the range of motion and or speed of movement. In comparison, ballistic stretches involves moving parts of your body and gradually increased risk for injury, ballistic stretching is no longer recommended.[2] Pre-Contraction Stretching: Proprioceptive Neuromuscular Facilitation Stretching involves a contraction of the muscle being stretching involves a contraction of the muscle being stretching involves a contraction of the muscle being stretching. PNF is the most common type, see below. Other types of pre-contraction of the muscle being stretching involves a contraction of the muscle being stretching. stretching include "post-isometric relaxation" (PIR). This type of technique uses a much smaller amount of muscle contraction of the muscle at mid-range with a rapid movement to maximal length followed by a 15-second static stretch. Multiple PNF stretching can be used on most muscles in the body.PNFS can also be modified so you can do them alone or with a partner.[9] The types of PNF stretch; Contract Relax (CR) Contraction of the muscle through its spiral-diagonal PNF pattern, followed by stretch; Contract-Relax Agonist Contract (CRAC) Contraction of the muscle through its spiral-diagonal PNF pattern, followed by contraction of opposite muscle fiber begins with the sarcomere, the basic unit of contraction in the muscle fiber. As the sarcomere contracts, the area of overlap between the thick and thin myofilaments increases. As it stretches, this area of overlap decreases, allowing the muscle fiber to elongate. Once the muscle fiber is at its maximum resting length (all the sarcomeres are fully stretched), additional stretching places force on the surrounding connective tissue. As the tension increases, the collagen fibers in the connective tissue align themselves along the same line of force as the tension. Therefor when you stretch, the muscle fiber is pulled out to its full length sarcomere, and then the connective tissue takes up the remaining slack. When this occurs, it helps to realign any disorganized fibers in the direction of the tension. This realignment is what helps in the rehabilitation of scarred tissue.[10] The initial changes that are produced by stretch training involve mechanical adaptations, which contrasts with the sequence observed during strength training.[11] When a muscle is stretched, some of its fibers lengthen, but other fibers may remain at rest. The more fibers that are stretched, the greater the length developed by the stretched muscle. Proprioceptors: The proprioceptors related to stretching are located in the extrafusal fibers. Muscle spindles are the primary proprioceptors in the muscle. Another proprioceptor that comes into play during stretching is located in the tendon near the end of the muscle fiber and is called the golgi tendon organ. A third type of proprioceptor, called a pacinian corpuscle, is located close to the golgi tendon organ and is responsible for detecting changes in movement and pressure within the body[10]. The Stretch Reflex[edit | edit source] When the muscle is stretched, so is the muscle spindle. The muscle spindle records the change in length (and how fast) and sends signals to the spine which convey this information. This triggers the stretched muscle to contract. The more sudden the change in muscle length, the stronger the muscle contractions will be (plyometric training is based on this fact). This basic function of the muscle spindle helps to maintain muscle tone and to protect the body from injury. One of the reasons for holding a stretch for a prolonged period of time is that as you hold the muscle in a stretched position, the muscle spindle habituates and reduces its signalling. Gradually, you can train your stretch mechanism Indications for stretching include: Improve joint ROM Increase extensibility of muscle tendon unit and periarticular connective tissue Return normal neuromuscular balance between muscle groups Reduce compression on joint surfaces Reduce injuries May be used prior to and after vigorous exercise to potentially reduce post-exercise muscle soreness[12] Contraindications[edit | edit source] Include: Joint motion limited by bony blocks After fracture and before bone healing is complete Acute inflammatory or infectious process When disruption of soft tissue healing is likely Sharp, acute pain with joint movement or muscle elongation Hematoma or other soft tissue trauma Hypermobility exists[12] Determinants of Stretching[edit | edit source] Alignment: The position of the patient has to be comfortable and should be such that the stretch force is applied on the particular muscle. Stabilization: The bony segment of the muscle to be stretched, should be fixed appropriately. Intensity: It is the magnitude of the stretch which is to be applied. Speed: The rate at which initial stretch is applied. Frequency: Total number of stretching sessions per day or per week. Mode Of Stretch: This is the type of stretch. Static, ballistic or cyclic, the amount of participation of the client (active or passive) and the source of the stretch (manual/mechanical/self)[13] Evidence[edit | edit source] A 2012 study on the evidence surrounding stretching techniques found that the benefits of stretching seem to be individual to the population studied. To increase ROM, all types of stretching are effective, although PNF-type stretching may be more effective for immediate gains. To avoid decrease in strength and performance that may occur in athletes due to static stretching before competition or activity, dynamic stretching is recommended for warm-up.Older adults over 65 years old should incorporate static stretching into an exercise regimen. A variety of orthopedic patients can be a result of stretching exercises can be a result of patients/athletes ability to withstand more stretching force or a real increase in muscle length [2]. "Increased stretch tolerance" term is used for ability to withstand more stretching force. Increased muscle length. Measurement of passive ROM is not sufficient to measure extensibility. Passive ROM should be measured with reference loads to identify increased stretching are effective, PNF-type stretching are effective. activity. As static stretching will likely decrease strength and may influence performance. [14] Post exercise static stretching is recommended for reducing muscle injuries and increasing joint range of motion. [15] Although Stretching is recommended for reducing the incidence of overall injuries. Stretching is often included in Physiotherapy interventions for management of many kinds of clinical injuries. Despite positive outcomes, it is difficult to isolate the effectiveness of the stretching component of the total treatment plan because the protocols usually include strengthening and other interventions in addition to stretching.[1] References[edit | edit source]

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