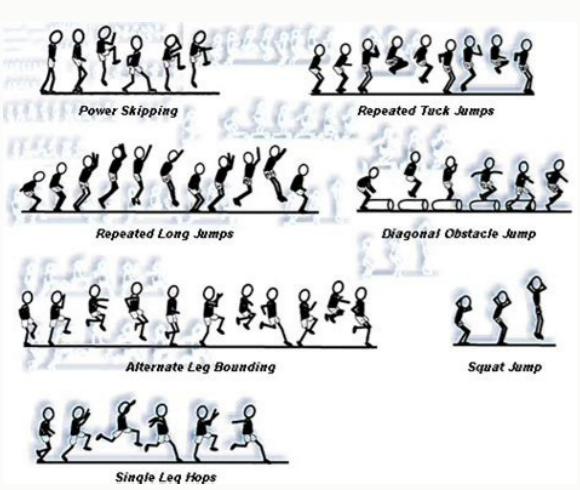


Open

Stretching after lifting impaired muscle performance



ONE HOUR AFTER INJURY

SWELLING:
Ice and elevate the affected leg.

REST:
The leg should be as rested as possible and compression can be useful.

THREE DAYS AFTER INJURY

PAIN:
Applying heat to the injury can be beneficial at this stage as well as keeping the leg rested.

HEALING:
Minor injuries should begin to feel better after three days.

1 WEEK AFTER INJURY

PHYSICAL THERAPY:
Some more severe injuries may begin physical therapy at this time.

HEALING:
Minor and moderate injuries should begin to feel slightly better at this point.

3 WEEKS AFTER INJURY

HEALING:
Minor calf strains should be fully healed within three weeks if the patient has followed instructions

PHYSICAL THERAPY:
Those with moderate to severe injuries generally continue physical therapy around this time.

6 WEEKS AFTER INJURY

HEALING:
Mature collagen tissue forms in around 6 weeks, so at this time most mild and moderate injuries are healed.

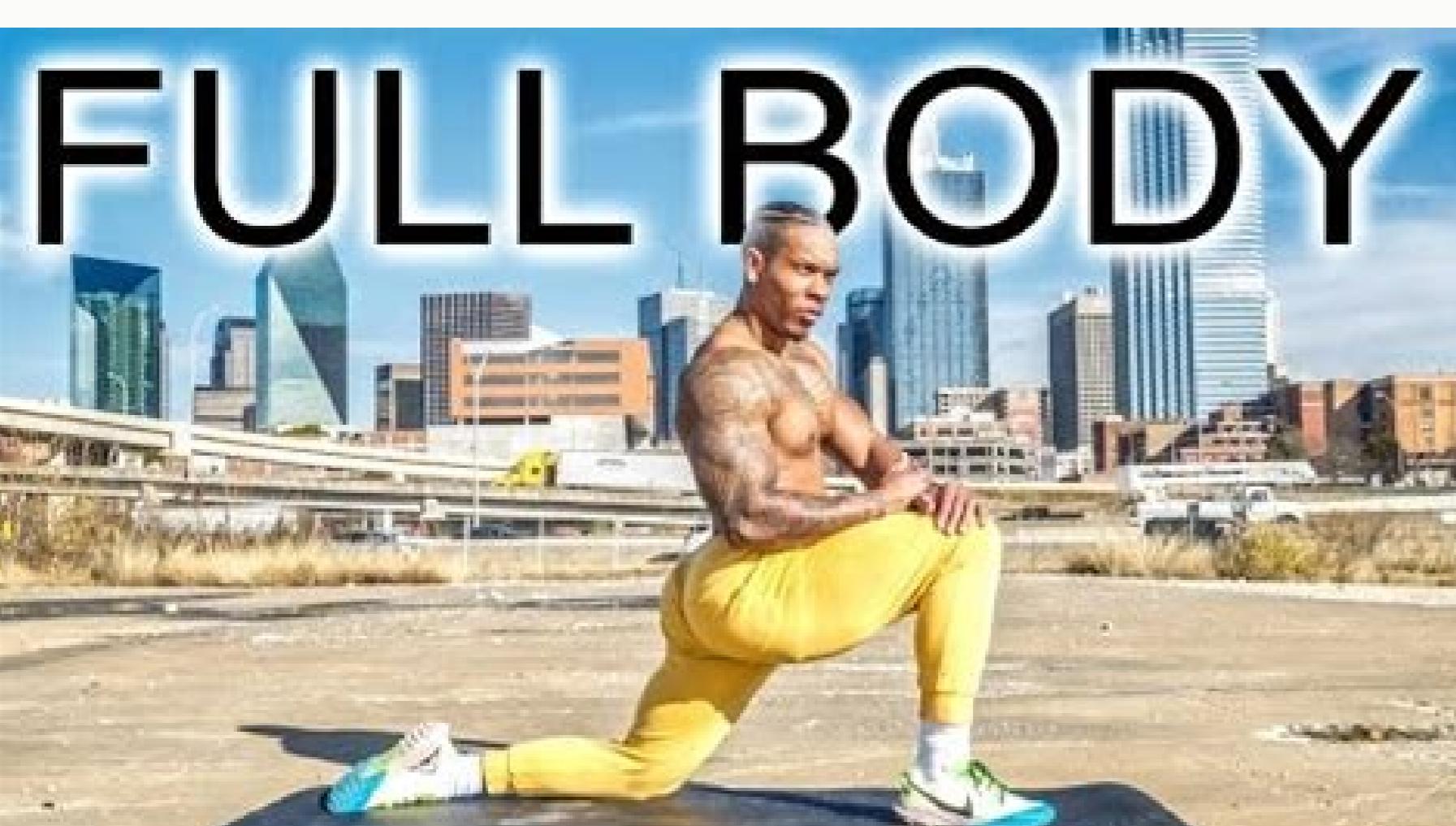
SURGERY:
Patients with severe injuries may begin to consider surgery at this point if it is needed.

6 MONTHS AFTER INJURY

HEALING:
Mild and moderate injuries are completely healed at this point.

SURGERY RECOVERY:
Patients who have undergone surgery to repair the muscle should observe noticeable recovery around 6 months

CELLAXYS



A systematic approach prior to exercise or performance activities should be used with any stretching protocol, and should include, but not limited to, the following movement screens as applicable: the overhead squat assessment, single leg squat assessment, modified squat assessment, sport specific assessments (such as the Landing Error Scoring Assessment) and for those trained, kinematic and manual muscle testing. doi:10.1007/s00421-011-1879- Clark, M., & Lucett, S. 14: 267-273. Corrective flexibility uses self-myofascial release (SMR) followed by static stretching. D., & Blazevich, A. A review of the acute effects of static and dynamic stretching on performance. Behm, D. Acute effects of muscle stretching on physical performance, range of motion and injury incidence in healthy, active individuals: a systematic review. Corrective Flexibility: Used in the OPT stabilization level (which is a great phase to utilize as a personal trainer), corrective flexibility is designed to address altered joint motion by improving capsular muscle tone and joint ROM. G. J. Effect of Acute Static Stretch on Maximal Muscle Performance. Acute variables for corrective flexibility: SMR Apply gentle pressure (via foam roller or similar) to a tender point/knot. Hold 30 seconds (maximum) Static Stretch 1-3 sets Hold at first point of tension for 30 seconds Active Flexibility: Pre-activity warm-up after movement compensations are addressed, appropriate for the OPT strength level, is designed to increase soft tissue extensibility in all planes of motion by employing reciprocal inhibition utilizing agonists and synergists to move a limb through a full range of motion while the functional antagonists are being stretched. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins. Sport Med. Medicine & Science in Sports & Exercise. 44(1): 154-164. A systematic and critical review of the literature. The key findings from this study showed static stretching of 60 seconds "are less likely to cause a small or moderate reduction in performance," and those pre-exercise programs are not typically used for both the athlete and general population. Likewise, stretching your muscles regularly will improve their flexibility and enhance your joints' range of motion. What Happens to Your Body When You Fail to Stretch? Clark, M., Lucett, S., & Sutton, B. Failing to stretch your muscles will cause your joints and muscles to reduce their mobility. Your Risk for Injury Increases When the mobility of your joints and muscles become limited, your chances of sustaining an injury will automatically increase. Your Body Will Become More Vulnerable to Muscle Pain and Tightness Without regular stretching, your body gets cold, and your muscles tighten up. Clin. If your muscles could talk, they'd be saying "Stretch Me!". Functional flexibility uses dynamic stretching after SMR. 2004. As Your Hamstrings, quadriceps, or hip flexors must be begging you to "stretch me!" Book your FREE 30-minute stretch at Stretch Zone today. Static stretching is a highly debated and controversial topic within the fitness and sports performance communities, and is focused around the concept that sustained static stretching could impair subsequent performance (Rossi et al. doi:10.1097/JOM.00042752-200409000-00004. There are three phases of flexibility used with the OPT model: corrective flexibility, active flexibility and dynamic flexibility. If you're one of those who jet home after an invigorating workout, you might want to incorporate a post-workout stretch into your fitness routine. The NASM Integrated Flexibility Continuum Different types of stretching elicit different types of responses from the neuromuscular system. PMID:15377965. The constant stress that they place on their muscles will lead to greater chances of getting themselves injured. European Journal Of Applied Physiology. 111(11): 2633-2651. It is important to understand the different types of flexibility techniques in order to apply the appropriate flexibility training program based on assessments, needs, and goals for each client or athlete (Clark & Lucett 2010). Burlington, MA: Jones & Bartlett Learning Kay, A. Does stretching improve performance? (2014). Your Mobility Will Be Drastically Reduced Did you know that your muscles can be compared to a rubber band? The question then is this, is the best strategy for injury prevention and performance enhancement found within dynamic stretching or static stretching? (2012, 01). January 2016;41(1):1-11. (2010, 01). Or a balance of both? People who maintain an active lifestyle would head down to the gym after a long day at work. References Behm D, Blazevich A, Kay A, McHugh M. In conclusion, when working with any population, a flexibility program is important for many reasons and should be designed for the specific needs of each individual. Static stretching can be beneficial in many ways, such as correcting muscle imbalances, decreasing muscle hypertonicity, increasing joint ROM, relieving joint stress, improving the extensibility of the musculotendinous junction, maintaining the normal functional length of a muscle (length-tension relationships), decreasing the chance of injury and in turn enhancing power and strength (Clark, Lucett, & Sutton 2010 & 2014). In case you're not aware, new rubber bands tend to snap in half when you try to extend them. Accessed April 17, 2017. 2010; Shrier 2004; Behm and Chaouachi 2011; Kay and Blazevich 2012. (2011). Lets look at a recent systematic review that included a comparison of the effects of static stretching and dynamic stretching on performance, range of motion and injury prevention. The study found static stretching

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