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Your muscles react to exercise in a number of ways, both during and after exercise, improving your strength, speed, power and endurance. Depending on what type of exercise you perform, your body calls it an aerobic or anaerobic energy system to help your muscles perform their necessary functions. Muscles contract during exercise, creating eccentric, eccentric or isometric contractions to do the job. When you lift a dumbbell during a bicep curl, your muscles contract, creating a concentric contraction. When you reduce weight, your muscles lengthen, creating an eccentric contraction. If your muscle resists strength without moving, for example, snuggling against a wall or keeping your weight steady, your muscles create isometric contractions. A chemical called adenosine triphosphate helps to make muscle contractions. After a few reps, you deplete atp stocks in the muscles and should create more. Initially, you burn glycogen to replace these stores. The longer you work, the more fat you burn. During short, high-intensity exercises such as a sprint or tennis match, your body uses mostly glycogen. If you exercise for long periods without interruption, such as when you jogs or use cardio machines, your muscles burn more fat. When you exercise, your body produces lactic acid, which suppresses muscle contractions. The longer you take between the point or play, the more lactic acid leaves the muscles - but not all of it. The longer you exercise, the more lactic acid you have in your muscles, which can eventually lead to cramps and muscle fatigue. Your muscles contain fibers that help them contract. To perform powerful movements, your muscles call on the slow twitching of muscle fibers. To create fast, high-intensity movements, your muscles use more highly twitching muscle fibers. While you can't increase the amount of any type of muscle fibers, a specific workout helps increase their size. That is why athletes-competitors perform strength training and aerobic exercises in the off-season, as well as explosive, anaerobic training during the pre-season and during the season. Weight lifting and other resistance exercises are not muscle building; it damages it. As your body recovers from resistance and repair tears on muscle fibers, your muscles grow larger. Much of this process occurs within 48 hours of a workout, so bodybuilders leave at least 24 hours between workouts, or perform upper body workouts in the morning and lower body workouts in the afternoon. When you stretch your muscles and hold them, it helps to improve flexibility for more Training. This process also temporarily desensitizes the muscles, causing a decrease in power and a vertical jump of up to 20 minutes. This is why you should keep static stretching until after your workout. Your heart and lungs are part of the muscular system and respond to exercise by increasing them do the job and their ability to do work longer, known as endurance or endurance. Exercise is harder to increase capacity, while working longer increases endurance. Page 2 In terms of lay people, strength refers to how much work your muscles can do at one time, the power relates to the explosiveness of your movements and endurance relates to how long you can use the muscles. Strength, strength and endurance are attributes that require specific learning methods that differ in different ways. Muscle strength, also called limit strength, is the amount of work you can do with muscles at one time. For example, if you can lift a 200-pound barbell during the first week of training, and lift a 205-pound barbell next week, you've increased your strength. Your heart muscles, and as you increase cardio strength, you can work faster or exercise at a higher intensity. When you use muscles to perform high-intensity movements in short bursts, you use force. For example, when you leave the blocks at the beginning of a sprint, throw a punch, swing a bat or jump over an obstacle, you use force. You produce more energy using more muscle, so many coaches tell athletes that they have to hit the ball or throw a kick off their feet. Athletes generate most of their strength in their legs, hips, butt and core, transferring the energy they generate to their smaller hands, which then transmit that power to the bat, club, stick or fist. The longer you can use your muscles, the more stamina you have. The marathon runner has less speed than a sprinter, but can run longer than a sprinter because he has more muscular endurance. Cardio endurance, or endurance, is your ability to maintain a high pulse longer, for example during a 30-minute aerobic workout. Strength training requires you to use heavy weights or use a high level of resistance to perform exercises in such a way that you cause small tears in muscle fibers. As your muscles recover, they grow larger, increasing your strength. To improve power, you use less weight or resistance and perform fast, explosive movements similar to the movements you will use during a game or match. For example, jumping on your knee window helps improve power if you perform jumps enough times. To improve stamina, you reduce resistance so you can work longer. If you use too much resistance, you muscle will be tired to fail and you will not be able to continue. Jogging, swimming laps, using a cardio machine or performing aerobics workouts are examples of endurance training. Some muscle training include weight or resistance in the exercise chain. You use about 50 percent of the maximum weight or resistance you can use to perform exercises, do 10 to 25 repetitions of exercise, take a break and then start a new exercise by working this way for 20 or 30 minutes. Muscle muscle contraction Just muscles. It's not just the mass that allows bodybuilders and powerlifters to perform herculean elevators. Muscle compression, and strength in general, are much more than just size, but also involves a muscular reaction to resistance exercises. The anatomy and physiology of skeletal muscles there are three types of muscles in the body: skeletal (voluntary muscles that move the body, arms and legs) Smooth (involuntary, found in the walls of internal organs like the stomach, intestines, bladder and blood vessels) Cardiac (heart muscle) This article discusses skeletal muscle. The skeletal muscle allows the body to move. The contracting tissue consists of thousands of parallel, cylindrical fibers that work the length of the muscle (you could have 100,000 fibers in your biceps alone!). Fiber consists of smaller protein filaments called myofibrils, which contain even smaller protein myophilaments called actin and myosin. The sliding theory of muscle contraction strands describes how actin and myosine glide over each other, causing myofibrilla to contract, which in turn leads to a reduction in muscle fibers. The skeletal muscle allows the body to move. The muscle is attached to each side of the joint and when the muscle contractes or contractes, the joint moves. For example, the biceps muscle crosses the front of the elbow. When you make a biceps curl, the muscle contracts, your elbow bends and the weight rises. Muscle origins, inserts and types of compression where the muscle attaches to the bone closest to the center of the body is called its origin. Insert muscle where it attaches to the bone is far from the center of the body. The origin of the biceps is in the shoulder blade, and its insertion is in the radius of the bone of the forearm. When the muscle contractes or contractes, it pulls on both its origin and inserts into the bone and causes the joint to move. To return the joint to its original position, the reciprocal muscle on the other side of the joint must contract and contract. Muscles do not push joints, they only shrink and pull. This is up to both mutual muscle groups to work together to move the body. For example, the biceps shrink and bend the elbow, while the triceps on the other side of the arm shrinks and returns the elbow to its original position. This mutual synergy between muscle groups is sometimes referred to as the agonist/antagonistic system. Concentric and eccentric cuts are two types of cuts that you use every time you lift weights. Concentric contractions when the muscles contraction, and eccentric contractions when the muscles contracte and lengthens at the same time. It sounds confusing, but here's how it works. Consider a lateral retractable exercise (lat retractable down). Pulling down the bar uses the following muscle groups: biceps, latissimus dorsi, posterior deltoids, and romboids. All these muscles located in the back hands are cut and cut, moving the shoulder and hand. These are concentric cuts. To return the bar and reduce the weight of the stack requires all those muscles in the next to lengthen and allow the bar to return to its original position above your head. You don't just let go and let the bar fly up and weight stack to crash down. Instead, you return the bar slowly as the contraction of these muscles and allows them to lengthen. It is an eccentric contraction where there is contraction and tension in the muscles associated with lengthening. Eccentric abbreviations are also called negative work. For example, suppose you lift the final biceps curl of your set with the help of your spotter and then lower it slowly on your own. During this reduction, or negative eccentric phase, the biceps contract to lower it slowly and prevent the dumbbell from falling, but it is lengthening at the same time to allow your hand to straighten and return to its original position. Eccentric cuts can generate more strength and strength than concentric cuts. Eccentric contractions can also make your muscles more sore than concentric contractions, probably due to the greater strength generated and due to simultaneous lengthening and muscle contraction. Walking down stairs or going down the eccentric stress on the quadriceps of the thigh muscle when moving up is concentric. That's why your quad bikes hurt more going down. Skeletal muscles of skeletal muscles are voluntary muscles stimulated and controlled by the brain and somatic nervous system. Your brain is the central processing unit (such as your computer). Nerve fibers from the brain run through the spinal cord and branch out into networks to each skeletal muscle that moves (e.g., wires connected to light bulbs and sockets in your home). A small rupture where the nerve meets a muscle is called a neuromuscular compound. This is where the nerve pulse fires and causes the release of chemical neurotransmitters including acetylcholine and electrolytes like sodium and calcium to stimulate the muscles to contract. How do muscles move? The movement requires the whole system to work. When you think about movement, your brain decides which muscles are needed to make that movement happen. Electrical impulses are directed through the spinal cord and nerves into the corresponding muscles. Adequate supplies of neurotransmitters should be present to stimulate the muscles to contract. Once the movement has started, there are feedback mechanisms to allow the brain to control movement. This is called proprioception: the feeling of where one part of the body is in relation to another and in relation to gravity. How can I build muscle strength? Strength is both a function of mass and the number of neurological patterns of muscle fiber. We all know someone who's not huge to the point mass or or size, but who has a lot of strength. Although there is a link between mass and force, the power to move also comes from a set of patterns in the nervous system that connect to muscle fibers. People generate more energy in their biceps if they can recruit and shoot 50,000 muscle fibers than if they can only gain 25,000 fibers. Muscle gain allows people to become much stronger in the first few weeks of the new strength training program without increasing muscle mass. Regular weight lifting is gaining new patterns of communication between the brain, nerves, neuromuscular connection and muscle fibers. Every time someone lifts weights and engages in these muscles, he or she sets new neuromuscular patterns and becomes stronger. Motor neurons in the muscles and nervous system die as people age and do not regenerate, and as a result people lose strength. Exercise can reverse this process. Geriatric patients can increase motor neurons firing by as much as 20% and increase the stretch by more than one-third in just six weeks of weight training. What is muscular hypertrophy? Muscle hypertrophy (increasing cell size) is a separate mechanism that increases muscle strength. While the nervous system and neuromuscular compounds are essential for contract muscle fire, hypertrophy works differently. When people lift weights, microscopic damage (microtars) occurs with myofibrils in muscle fiber. These microtars stimulate the body's response to repairs. The body supplies nutrients that flow into muscle cells to repair damage and stimulate more myofibril to grow. The increase in the number of myofibril causes muscle fibers to increase, increasing their volume and size. It is important to remember that no new muscle fibers are created; they simply swell as the number of myofibrillations increases. Molecular biology and microscopic technology allow scientists to look into the life of cells hundreds of times smaller than the head pins. They can see how contractions of muscle fibers stimulated immature cells to grow into mature myofibrils, thus causing muscle fiber hypertrophy. These images had muscle in men and women from 65 to 75 years old who had weightlifting. In addition, the researchers were able to mark these satellite cells with special tracer molecules that can be seen under a microscope. The tags clearly show a 30% increase in satellite cell activity, proving that activities such as weight lifting have a profound impact on growth and development regardless of human age. Weight lifting is useful at any age lifting weights and other resistance exercises are effective at any age and useful for life. Everyone has the right things to become stronger no matter or as a sedentary lifestyle. Muscle exercises are beneficial, starting with the first training session. Sticking with with will add not only strength, but also quality of life. Enjoy your workouts! CONTINUE SCROLLING FOR A RELATED SLIDESHOW SLIDESHOW

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