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Functional Fitness For Wellness & Sports

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Our ancestors were always functionally fit because they spent their days staying active: walking and running many miles per day; gathering and preparing food; hunting/fishing; playing sports and holding athletic competitions; taking care of children; building homes; the list goes on.

In indigenous cultures, for most of history, movement was so heavily integrated into daily life that the ancestors did not need a gym or special space for "fitness," and there was no need to set aside extra time for fitness training.

Today, the world is different. People are often stuck behind a desk or sitting on a couch or in a car most of the day. Because of our sedentary lifestyles, we need to focus on spending some extra time training in order to avoid becoming sick with modern lifestyle diseases such as diabetes or obesity. Hence Fitness, today as we all know has become a buzz word. Coaches, athletes, personal trainers, athletic trainers, physical therapists and even the general public have woken up big time to fitness. But do these people choose a proper and effective fitness regime? Today we have many fitness concepts catering to different priorities but what we will be discussing today is the backbone of all fitness training. Every human being irrespective of his occupation involves himself in some or the other physical movement and every movement has a purpose. To make the movements efficient a training method has to be purposeful.

Our bodies are an amazingly complex web of interconnected muscles, joints, fascia, ligaments, tendons, bones, and other tissues and organs that work synchronously and seamlessly. When we are lean and fit, every cubic centimeter of our bodies has a purpose, a function to help us survive and thrive. We all know that our body is this interconnected web that's really more like one unit, one muscle, Then why would we focus on only one muscle group during a workout or one type of exercise activity? The idea of focusing on only one muscle group in a workout is definitely not efficient, nor is it athletic.

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Nature has designed our body to be athletic so that it can perform tasks necessary for our survival. IT is the unnatural routines of our everyday life that cause weak muscles and poor postures. On doing functional training our body becomes athletic and will be very easy to do the daily chores. To perform Daily tasks we know that we require: strength, coordination, balance, speed of reaction and flexibility and in order to improve these we need to do exercises.

At its core, exercise is all about movement. Learning and understanding each basic movement pattern is a critical first step in any type of training.

Today there are so many different opinions on how one should exercise. "What type of training is the best?" is the big question.

"Does one perform slow or fast reps? Is a a bench or a physio-ball better? One body part at a time or full body?"

The answer is that everyone should be training in a manner that relates to their individual goals. There is no set routine that equally benefits everyone who does it.

Performing a typical gym program of random exercises, three sets of ten, with one minute rests has benefits but will not be the most efficient way to attain your goals or address your specific needs for your day to day activities. Training primarily with machines and not using free weights is inefficient because you are moving resistance along a fixed axis, not freely in space as the body normally functions. Machines have limited functional strength transfer to real life situations in most cases, and can actually create poor motor patterns in some people. Machines have value when integrated properly but are often misused.

This is where functional training comes into picture. Functional training is best characterized by exercises done with the feet in contact with the ground. It teaches us to handle our own body weight in all planes of movement.

The muscles are trained and developed in such a way as to make the performance of everyday activities easier, smoother, safer, and more efficient. Functional exercises aim to improve the ability to function independently in the real world. In short, functional training is fitness training for life. Of course, everyone leads different lives; some spend their days lifting and carrying, others work in factories, many others sit all day long at their desks or driving in their cars. In real life, you hardly ever work just one muscle at a time. The idea of many muscles working all at once to perform smooth and efficient real-world movements is the idea behind functional exercise.

Almost everyone performs routine and familiar movements such as walking, standing up, sitting down, and bending over to retrieve something from the floor. The goal of functional training is to train the body to handle these and other real-life situations easily and safely.

It encourages the training of balance and the balancing of training. The key to functional training is integration. It's about teaching all the muscles to work together rather than isolating them to work independently. This training method is not just about getting stronger or bigger but also about reducing injuries and improving performance at the same time. It focus on building a body capable of doing real life activities in real life positions. It is the logical future of the field of performance enhancement.

What's the goal of functional training?

To answer this, take a moment to think about why you train.

While we all have our own personal motivations and fitness goals, it generally falls somewhere between:

- Look better
- Feel better
- Perform better

It's that last point – **perform better** – that functional training aims to address by helping you to:

- Upgrade the way your body moves and functions
- Improve your strength across movement patterns
- Increase the physical performance of your body

Functional training (done right) has a huge carry over to life outside the gym. So, whether you're training for sport or the game of life, everyone can benefit from it.

Traditionally, exercise scientists and fitness professionals have focused on standard weight room-type exercises for muscle conditioning, often performed on machines. While these exercises certainly have merit, they have tended to isolate specific muscles; in other words, only a single joint may have been used, while all other joints were kept still. A good example of this is a biceps exercise performed on a standard biceps curl machine. Here, the only moving joints are the elbows; all other joints are stabilized against the chair or strategically placed pads. Although such an exercise can be an excellent way to strengthen the biceps muscles, most of us do not use our biceps in this isolated way in real life.

Meaning and Definition - Functional training is purposeful training. Function can easily be defined as "performing a duty for which a person is intended for". Function is how the body moves everyday. Therefore, FT would be to train the body for the movement it is intended for and performs everyday, or exercise that more closely mimic normal body movements. If one wants to get better and stronger at an activity, one would instinctively rehearse the activity, or at least parts of that activity. In sports we always say, the best functional training for a particular sport, is that sport! Although this is an oversimplification of the concept of functional training, it is its essence. FT trains movements, not body parts"! Today when we have a look at any gym we will see 99 percent of the people training in a nonfunctional manner. In fact, many gyms spend as much as 75-95% of their equipment investment on non-functional equipment. FT follows functional biomechanics, not academic anatomy. For example, in an anatomy class you are taught that the quadriceps extends the knee and the hamstrings flex the knee. Therefore, every time we look at a movement where the knee is being extended, we think the quadriceps is doing it. Conversely, every time we see the knee flexing during a movement, we think it is

the result of the work of the hamstrings. What they forgot to tell us in the anatomy class is that the quadriceps extend the knee and the hamstrings bend it only when the foot in hanging in mid air; not planted on the ground. When the foot hits the ground, everything changes". every muscle from the trunk down has one simple function, the muscles of the lower body glutes, quads, hamstrings all act together eccentrically to stop (deceleration) the ankle, knee and hip from bending in order to prevent falling to the ground. Within a fraction of a second all the lower muscles contract concentrically and act as a unit to create the next movement (acceleration).

Many training methods break down the human body into a series of single joint actions, but this form of isolation fails to take into account the real-world muscle action which is why our body is preprogrammed with "basic patterns" of motor control with a relative timing sequence, or rate at which body segments move relative to one another, which allows them to be easily modified in countless ways to react to gravity, ground reaction forces and momentum or in other words the principles of functional fitness.

PRINCIPLES OF FT-

- 1) MOVEMENT SPECIFIC- Most people use the same movement patterns throughout the day. These Movements can include: walking, sitting, standing, and carrying objects. One of the key principles in Functional training is to have the Exercises chooses which mimic the movement of the daily activities .Be specific, or mimic, the target activity. This includes all of the appropriate joints, as well as the speed and amplitude of movements. The principle of specificity dictates that we "train like we play/live".
- **KINETIC CHAIN PRINCIPLE** all the movements are the result of synergistic work of different joints in multi planar pattern, e.g. a golf swing is a multi planar movement which is engraved in our brains in a neural pattern but not isolated muscle movement.

Whenever a work is to be done, it is usually well done when there is continuity in the process of doing the work. Likewise when the body is especially doing a movement of especially lifting a object, it is easily done when the weight is lifted and shifted in a continuity. The energy is transferred right from the calf muscles to the thigh to the core muscles and then shifted to the arms.

- 3) ALL PHYSICAL MOVEMENTS ARE A RESULT OF GRAVITY, GROUND **REACTION FORCES AND MOMENTUM.-** . We constantly use gravity, ground reaction forces and momentum to "load systems" so that we can generate power, such as in a jump or a throw.
- 4) STRENGTHEN THE CORE- Strong core muscles make it easier to do many activities, such as swing a golf club, get a glass from the top shelf and bend down to tie your shoes. Your core

muscles play a huge role in your everyday activities, from getting out of bed, to walking down the street, and bending over to grab your purse-but, most importantly, they literally help you stay upright.

Benefits of FT-

Injury Prevention- Functional training greatly improves strength and stability across a variety of movements. This makes your joints better protected and muscles more resistant to common injuries like strains. The well-balanced nature of training ensures that you don't develop any weak links which is a very common reason why active people so often get injured. Functional training may lead to better muscular balance and joint stability, possibly impacting the number of injuries sustained and individual's performance in a sport.

Better Mobility-

Training across movement patterns ensures that your joints are moving through a full range of motion and that you are building strength across a full range of motion. This is key to maintaining proper joint function. Improving core stability also goes hand in hand with mobility gains. A classic expression by Dr Stuart Mcgill – "Proximal stability for distal mobility".

'Real World' Strength- Building muscle in isolation does not transfer well to life outside the gym. Functional training does. This means it will improve your ability to perform every day tasks like carrying your groceries, mowing your lawn and picking up your kids.

Athletic Performance- Functional training will improve your athleticism. Whole body strength, stability and movement quality will all be greatly enhanced. You'll also be more robust and resilient to injury. All in all, this is going to transfer to better athletic performance. In sports, FT attempts to develop strength, power, skill, movements and energy systems of an athletes sport.

Important considerations- Following considerations we need to take into account when we are implementing functional training. These points deal in one way or another with the kinetic chain principle, gravity, ground reaction forces or momentum.

- 1. Be specific, or mimic, the target activity
- 2. Not be restricted or supported by external means.
- 3. Eventually integrate a significant amount of controlled chaos into the training.
- 4. Deal with multi-joint, multi-planar movements.
- 5. Approach loading and development from the inside out. Load the system internally (i.e. bodyweight) first, then add external resistance.
- 6. Have "causative cures" as a rehabilitative or conditioning goal. That is, the cause of an injury must eventually be part of its cure, or prevention

- Have an evaluation criterion that is incorporated into the training. 7.
- 8. Be progressive in nature.
- 9. Be fun and make sense. If it is not fun, then compliance will suffer and so will results. If it does not make sense, chances are it's not functional and not optimally effective.

GO FOR FUNCTION AND YOU WILL NEVER GO WRONG.

