Abdominal Exercise Stabilization Dr. John G. Schoenenberger

We had extensive coverage with intrinsic stabilization. More specifically, the training goal is coactivation of the multifidi with the transverse abdominis which provides intrinsic stabilization during a posterior pelvic tilt. So, even before we fire the lower rectus abdominis, intrinsic stabilization (closed chain) must occur. So, intrinsic stabilization (abdominal hollowing) is first followed by a posterior pelvic tilt (lower rectus abdominis) and then finally, the upper rectus abdominis fires to complete a curl up. They used the following metaphor: "You can't shoot a canon from a canoe".

This is a very good article because I was not aware of the gadget that Janda invented so I will buy one for me to use and my patients. Trunk flexion is one of the 7 movement patterns (Janda), referred to as functional testing. There are 4 stages of motor control:

- 1. Kinesthetic awareness (the patient finally recognizes a proper contraction sequence)
- 2. Volition (the patient can now routinely fired the muscles in the correct pattern)
- 3. Coordination (the patient can now coordinate 2 movement patterns simultaneously) 4. Automization (the movement pattern is now subcortical. Neuromuscular reeducation has occurred-now through the cord rather than thinking about it. It is a reflex or referred to as engram formation)

Since core stabilization and proximal stability are prerequisites for peripheral mobility/function, I usually start all by rehab programs with this movement pattern... even neck or upper extremity problems. I then focused on 1-leg standing, neck flexion, hip extension, hip abduction, trunk lowering from the push-up position, and finally shoulder abduction-in that order.

Simply put, build from the bottom up, and proximal to distal. 1-leg standing for proprioception and reaction time of the gluteals. Move to the neck. This completes the axial skeleton or core. Now move to appendicular skeleton; the hip extensors and abductors because we are billing from bottom-up. Next, scapular stabilization because it is proximal to the glenohumeral joint. Lastly, shoulder abduction pattern.

In theory, by correcting posture and movement patterns obviously brings us to anatomical position; palms forward. This should help eliminate many of the peripheral problems such as shoulder impingement tendinitis, lateral epicondylitis, carpal tunnel syndrome, etc. It is actually a pretty simple concept. I love the Europeans. This exercise unit will speed up the process. Thanks a million-

On Tue, Nov 17, 2009 at 11:25 AM, Allan F. Perfilio , D.C. alpec329@comcast.net wrote:

but it is still interesting.

http://www.cbass.com/HardestSitup.htm