Post-Rehab Fitness

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Founder of Huey's Athletic Network, 1986 Founder of CompletePT, 1999







All Fitness Levels in Many Classes

- Students of all fitness levels come to many of our classes
 - All ages, weekend warriors, Olympic athletes, pregnant women.
- Add rehab patients and the range of abilities gets wider.
 - Low back pain, sore shoulders, sprained ankles, arthritic hips.
 - Prehab and post rehab fitness.





Specific Post-Rehab Fitness Classes

- You can create specific classes for Hips, Knees, Back, Ankle, Foot, Shoulder, or Neck.
 - Having only one or two body parts in a class simplifies the program.

 Market classes internally to your students and to neighboring doctors and surgeons.



Protect the Injury Site

- Make a mental list of students' conditions, consider modifications.
- Protect the area of pain or injury while working out.
- If an exercise hurts a student, don't do it!
- Do less rather than more until you get to know each student. It might not hurt until tonight or tomorrow.



Basic Concepts

- Put a flotation belt on anyone with weight-bearing pain or injury, both shallow and deep water.
- Focus on low-impact or no-impact movements.
- The "Red Line" theory. Don't cross the Red Line!
- Learn who is fragile and have them back off at first sign of pain.
- Learn who comes back feeling good and push them more each time.



Students Turn to YOU!

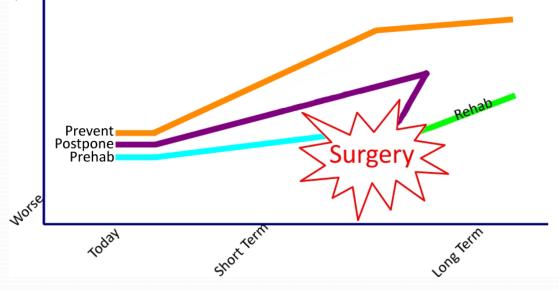
- Keep learning: read the latest fitness news and research studies,
 online research about any new terminology you hear from students.
- Listen to Meet the Doctors podcast on iTunes, Spotify, etc.
- Look up any words you don't know. Follow where that leads.
- Learn the basics about most common injuries and surgeries.
- Find a mentor: MD, DC, PT, ATC, or other.





Seeking Prevention of Surgery in Your Classes

- Many students are considering surgery.
- Start with the expectation you can help PREVENT surgery.
- If pain diminishes and ROM returns, heading toward prevention.
- 2-3 months later, little improvement, probably heading toward prehab; get strong to face the rigors of surgery.
- Should rehab with physical therapist after surgery, but be prepared
 in case they return to your class; research, learn more



Cautions for Specific Body Parts

- Ankles
- Knees
- Hamstrings
- Hips
- Backs
- Shoulders



Ankles

- Learn to tape ankles or find someone who can.
 - White tape to immobilize first few weeks.
 - Switch to Elasticon tape for ROM.
- Cautious with Body Swing, Curl and Stretch.
- Go slowly at first on kicking exercises.









Knees

- Learn which movements cause pain for which students.
- Avoid twisting or pivoting movements.
- Cautiously try Curl and Stretch, then Body Swing.
- Use shallow, not deep-water running if there's patellofemoral pain or a tracking problem.
- Use a tether for Quad/Hip Flexor Stretch if good posture not possible.

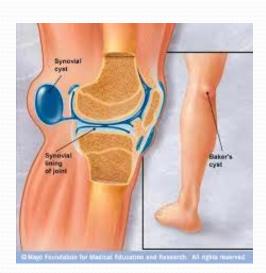




Most Common Knee Conditions

- Meniscus tears stabbing pain along the joint line, remove impact.
- Osteoarthritis (OA) loss of articular cartilage; risk factors are obesity and family history; usual reason for total knee replacement. Google 4 stages.
- Ligament injuries MCL heals without surgery, the LCL, ACL, and PCL usually need surgical repair for a stable knee.
- Patella tracking problems.
- Baker cyst 15% have this cyst at back of knee. If swollen, indicator of damage elsewhere in the knee; don't remove, it will grow back.





Research Recommends Against Surgery

- Finnish study: knee arthroscopy may help no more than a fake operation. *NEJM*, 2013.
- Two studies show increased risk of knee OA following meniscus and ACL surgeries, Orthopedics This Week, 2014.
- Study shows osteonecrosis of femoral chondyle in 4% of those having knee arthroscopy in *Sports Medicine Arthroscopy Review*, 2016. 750,000/year in the U.S. = 30,000!
- British Medical Journal, 2017 conclusions:
 - "We make a strong recommendation against the use of arthroscopy in nearly all patients with degenerative knee disease and meniscus tears; further research is unlikely to alter this recommendation."



Hamstrings

- No stretching during acute phase.
- Keep knee bent not to tug on hamstring.
- Easy to reinjure hamstring when working too hard.
- Ease into every movement slowly can be surprised which exercises cause pain or not.





Hips

- Stay in pain-free ROM.
- Work on gluteal strengthening.
- Start Power Walk slowly to avoid hip flexor strain.

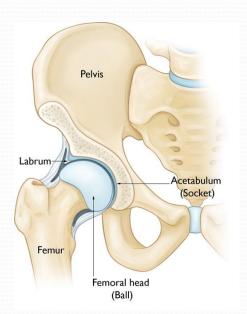


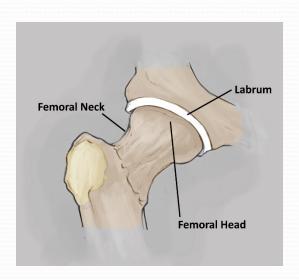




Most Common Hip Conditions

- Osteoarthritis (OA) deterioration of articular cartilage, most common cause of hip pain and dysfunction.
- Labral tears damage to fibrocartilage around rim of acetabulum. Can become frayed, torn, or ossified. Crucial to keep labrum:
 - Seals in joint fluid, keeps negative pressure inside joint, nourishes cartilage.
 - Helps create stability in the joint.
 - Without labrum, hip joint starts to deteriorate.





Femoroacetabular Impingement

- Femoroacetabular Impingement (FAI) bony abnormality impinges on labrum and damages it.
- Torn Labrum can be repaired arthroscopically and bony impingement trimmed out.
- Protect the labral repair: no deep squats, lunges, ROM.



FAI, pincer and cam combined

After Hip Surgery

- Hip replacement surgery
 - Be aware of any movement precautions.
 - Limit extreme ranges of motion for comfort and no disruption of scar tissue formation.
- Arthroscopic surgery
 - Protect labral reconstruction, less flexion and abduction.
 - Focus on gluteal strength, to prevent hip flexor tendinitis.





Backs

- Generally avoid hyperextension.
- Find out if flexion or extension feels good for each student and choose their exercises based on that.
- Avoid twisting movements: Bent-Knee Twists, Straight-Leg Twists.
- Build strong abs and other core muscles.





Shoulders

- Flexion/abduction stretches, hand on deck, squat to resistance.
- Use noodles or hand buoys, pushing down for stability.
- Add resistance pieces for increased strength.
- Use hand buoys in DWIs until normal movement restored.





Pain as a Friend

- Review activities with your students nurturing or abusive, delete abusive.
 - Abusive running, ballet, martial arts, soccer, extreme ROM.
 - Nurturing **pool**, bicycling, elliptical.
 - Treat pain as a friend teaching exact movement warnings.





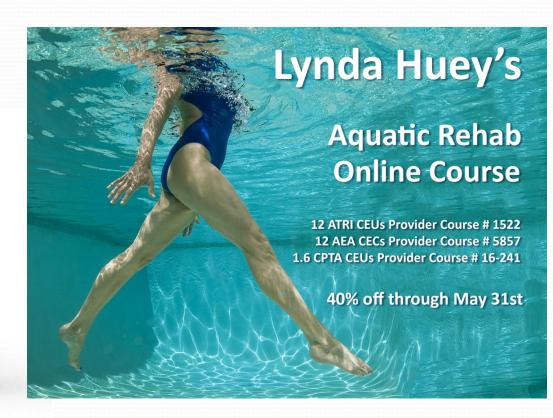
Teaching Tips

- Learn students' names right away. Helps you give warnings.
- Start each exercise with warnings for specific students.
 - Get the exercise going.
 - Make sure those with warnings are safe.
 - Increase the exercise for more advanced students: faster, harder.
- Don't let students exercise with bad form slow them down, correct the movement, back to speed.

Q and A

Time for your questions





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