INJURY PREVENTION CONCEPTS

Dr. Lenni Jo Yarchin, PT, DPT, OCS

Doctor of Physical Therapy

Board Certified Orthopedic Specialist

SST Rehab @ D1

September 16, 2019



My specialty = YOU!



- ✓ Competitive athlete for 20 years
- ✓ Coach for > a decade
- ✓ Physical therapist in a sports performance facility for > 6 years
- ✓ Orthopedic specialist
- ✓ Continue to practice what I preach through weight lifting, yoga, dance, and acrobatics



Why are these injuries occurring?



- ➤ Overtraining
 - Volume
 - Intensity
 - Duration of practice
- > Poor hydration and nutrition
- ➤ Poor warm up
- > Lack of optimal cool down/recovery



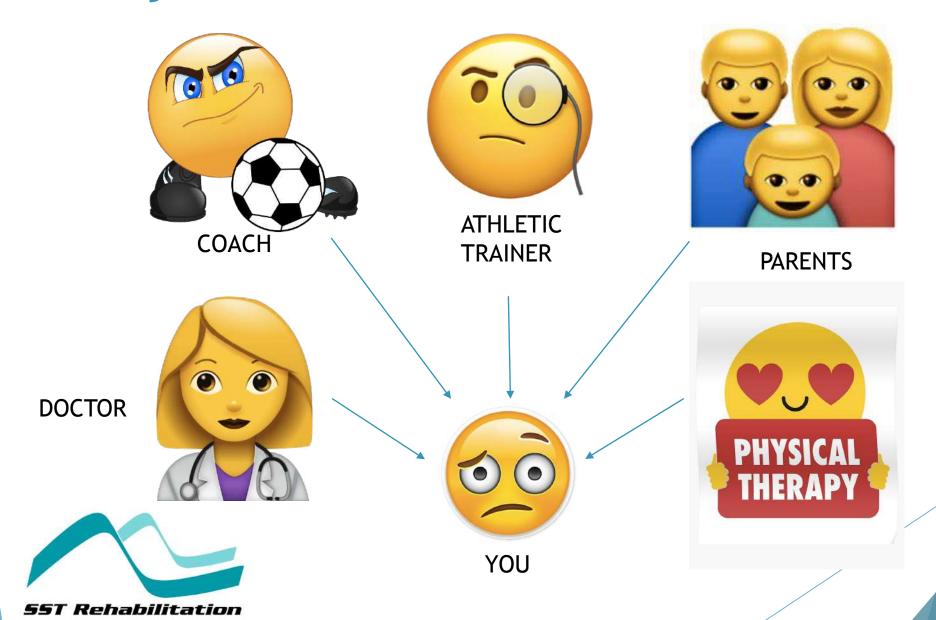
Why are these injuries occurring?



- > Improper strength and conditioning
 - Form
 - Prescription
- > Ignoring pain
- > Early specialization in sport
- > Same sport all year
- > Ignoring fatigue
- > Poor skill technique



The injured athlete conundrum

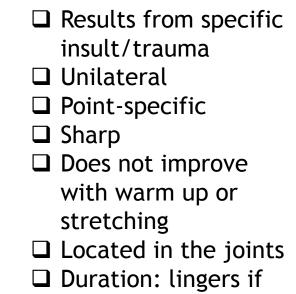


INJURY VS SORENESS

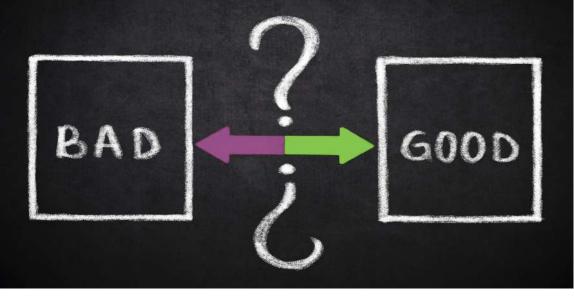


Is the "pain" that you are experiencing

• • •



not addressed



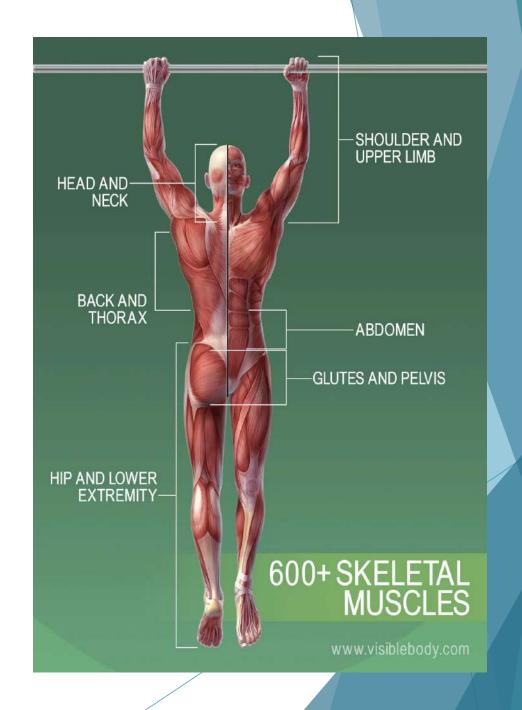
- No specific mechanism of injury
- ☐ Bilateral
- Diffuse
- ☐ Dull/achey
- ☐ Improves with warm up or stretching
- ☐ More commonly located in muscles
- ☐ Duration: 2-3 days



GROSS ANATOMY REVIEW

- ✓ Rectus abdominis
- ✓ Paraspinals
- ✓ Transverse abdominis
- ✓ Psoas
- ✓ Iliopsoas
- ✓ Glutes
 - Max/Med/Min
- ✓ Tensor fascia latae
- ✓ Quadriceps
- √ Hamstrings
- √ Gastrocnemius / soleus





Mindfulness & Intention

- ✓ MINDFULNESS is the psychological process of bringing one's attention to experiences occurring in the present moment
- ✓ INTENTION is a mental state that represents a commitment to carrying out an action or actions in the future; purpose / design / aim / end / objective / goal; what one intends to accomplish or attain





Purpose & Benefits of a Proper Warm up

- ► ↑ Blood flow
- ↑ Core & muscle temperature
 - ▶ ↑ Force of muscle contraction
- ↑ Oxygen to tissues
- ↑ Coordination
- ► ↑ Skill accuracy
- ▶ ↑ Reaction time
- ↑ Extensibility of tissues
- ▶ ↑ Body awareness
- → Balance
- ► ↑ Power
- ▶ ↑ ATHLETIC PERFORMANCE



Purpose & Benefits of Proper Cool Down

- Restores heart rate, body temp, and respiration rate
- Prevents immediate postworkout cramping/spasms
- ► ↑ Range of motion
- ► ↑ Flexibility
- Improve recovery
 - ▶ ↓ Post-training soreness and stiffness
- Prevent injuries





Dynamic warm up example

- > Are these movements recognizable?
- > Pay attention to the cues that are given
- ➤ Pay attention to form



Conclusion

- ▶ No Pain, No Gain is not really a thing in the context of injuries
- ▶ If pain persists, need to COMMUNICATE EFFECTIVELY
- ► Take warm ups and cool downs seriously
- Every rep counts.
- Form matters. It really, really matters
- Core, Core, Core = center of your body! Learn to control it.



Contact information

> www.sstrehab.com

➤ P: (407)792-0031

➤ E: info@sstrehab.com

> Facebook: SST Rehab - Orlando

➤ Instagram: @sstrehab



