TRAINING YOU TO TRAIN BETTER

Overtraining, Undertraining & How to train when you're injured

OVERTRAINING

What is it?

- Overtraining without appropriate rest can cause – central fatigue, depression, neurohormonal changes and systematic inflammation
- ~ 30% of adolescent athletes
- Past terminology:
 - Burnout
 - Staleness
 - Underrecovery
 - Training Stress Syndrome
- More common in distance athletes



OVERTRAINING PREVENTION

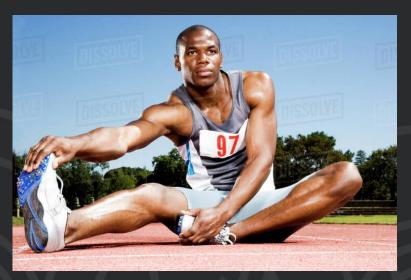
- Be aware of overtraining
- Cross-train
- Take time to rest in offseason
- Check on teammates and training partners
- Make connections between injury & training



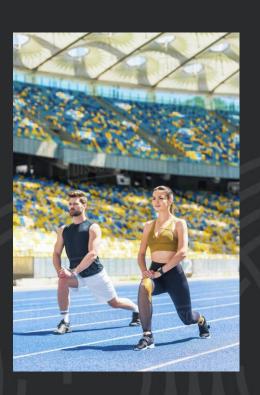
UNDERTRAINING

- Returning to high intensity practices and training following several months of rest
- Can lead to illnesses, overuse injuries and acute injuries
- Best way to begin the season is to come in prepared from offseason training – but BEWARE OF OVERTRAINING!





Warming up and Stretching



What does your club do for warm ups?

- What are your goals for pregame warm ups and/or stretching? (Injury prevention? Increased mobility? Preparing muscles for activity?)
- When does warm-ups/stretching start prior to games and/or practices
- Are they done as a team? Individually?
- How long does it last?
- Are there changes you think your team/club could make that would better prepare you for competition/practice?

TYPES OF STRETCHING & WARM UP

Static Stretching

- Holding a muscle or joint at an uncomfortable fixed position near the end-range of motion for ~ 20-30 seconds
- Stretching prior to activity has been, for years, assumed by coaches, athletes and health officials to aid in preventing muscle injury
- Recent research suggests no injury prevention with possible hindrance of performance when stretching prior to activity



DYNAMIC WARM UP

- Briefly pushing muscles/joints towards their end range-of-motion during a series of movement drills performed from low to moderate intensity
- Enables circulatory system to push extra blood to working muscles for a steadily pace warm-up of soft tissues
- Research suggests this CAN prevent injury AND improvements in performance (agility and strength)



DYNAMIC WARM UP EXAMPLES

- > Should generally last at least 7-10 minutes
- > Easy low-intensity exercises should lead into moderatehigh intensity
- > Should be enough to cause athlete to begin to sweat
- > Examples: lunges, toe touches, skips, carioca
- > Visit: https://recwell.wisc.edu/athlerictraining/





RECOMMENDATIONS

Dynamic Warmup

Time – 10-15 minutes

Routine - often sport specific

- Goals
 - Warm-up muscles
 - Improve Mobility
 - Prevent Injury
 - Improve Performance

Static Stretching

Can be beneficial to improve Mobility when performed following practice and competition

Never Stretch Cold Muscles!

Cross-training when injured

GOALS: LOWER EXTREMITY INJURY

- Maintain or improve Cardiovascular fitness
- Maintain or improve strength
- Keep exercises interesting and challenging
- Allow sport specific training as injury tolerates



HIIT TRAINING: LOWER EXTREMITY INJURY

- Interval training at a high intensity 70-90% maximum heartrate for an extended period of time (45-60 mins) with minimal rest
- Combine 3-5 circuits lasting around 10-20 min with minimal rest. Design with medical advisor to avoid exercises that will exacerbate injury



HIIT TRAINING: LOWER EXTREMITY INJURY

- Push-ups
- Crunches
- Shoulder press
- Bent-over rows
- Planks
- Standing punches w/dumbell



CARDIO: LOWER EXTREMITY INJURY

- Upper Body Ergometer (UBE)
- Swimming Laps, treading water, underwater running

The Nick will have a shallow pool that we hope to be using in Fall 2020 for Aquatic therapy



GOALS: UPPER EXTREMITY INJURY

- Maintain or improve Cardiovascular fitness
- Maintain or improve strength
- Keep exercises interesting and challenging
- Allow sport specific training as injury tolerates



HIIT TRAINING: UPPER EXTREMITY INJURY

- Squats: variation
- Lunge: variations
- High knees
- RDLs
- Band work
- Core exercises



CARDIO: UPPER EXTREMITY INJURY

- Stair Stepper
- Bike circuit
- Elliptical
- Swimming? Treading water
- Running?



QUESTIONS? https://recwell.wisc.edu/athletictraining/

