

Amy White Hockenbrock MD MS March 25, 2024 Berkeley High School

#### Goals

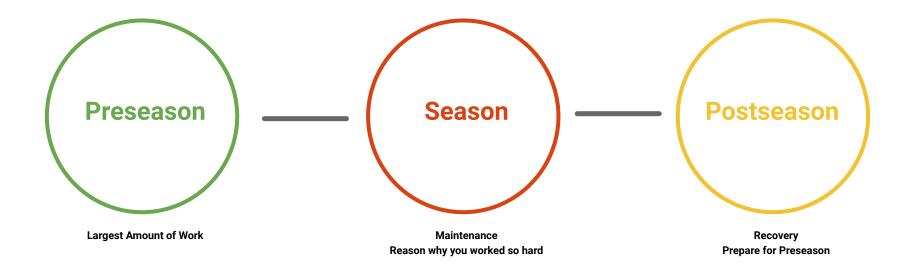
- General injury prevention and recovery strategies
  - Preseason
  - During Season
  - Postseason
- Injuries typical of specific sports / genders and how to prevent them
  - Soccer/Lacrosse/Other: ACL Prevention
  - Baseball/Softball: Pitch Counts
  - Overhead Athletes: Rotator Cuff Strengthening
- Conditioning, intake, and mindset for long term health
  - Input/Output
  - Strength
  - Gradual Changes

#### Background

- High School Soccer and Track Athlete
- Division I College Soccer Athlete
- Semi-Pro Soccer Athlete
- Family Medicine Trained
- Sports Medicine Trained
- High School Head Team Physician
- Inducted into High School Hall of Fame
- US Soccer Volunteer Physician
- Currently, Cal Associate Team Physician
- I am lucky enough to have worked with all levels including pro teams, college teams, national teams and youth teams



#### **General Injury Prevention & Recovery Strategy**



#### Preseason

- Defining your goals
- Preparing your body physically for season
- Increasing conditioning (gradually)
- Increasing strength (gradually)
- Preparing skillswise for the season
- Solidifying fundamentals
- Learning new skills that may be needed in season
- Academically strengthening grades so that your foundation is strong for season
- Understanding new plays or other game management ideas
- Preparing mentally for season with opponents and schedule





#### Season

- Play
- Have fun
- Enjoy all your preseason hard work
- Take each game/event as the next goal
- Maintain Strength/Conditioning
- Small adjustments
- No large adjustments
- Leave it all on the field







#### Postseason

- REST!
- REST!
- REST!
- Recover
- Look back and celebrate wins
- Look back and analyze defeats
- Look ahead to what is next
- When you are ready.....it's preseason again



# RESULTS.

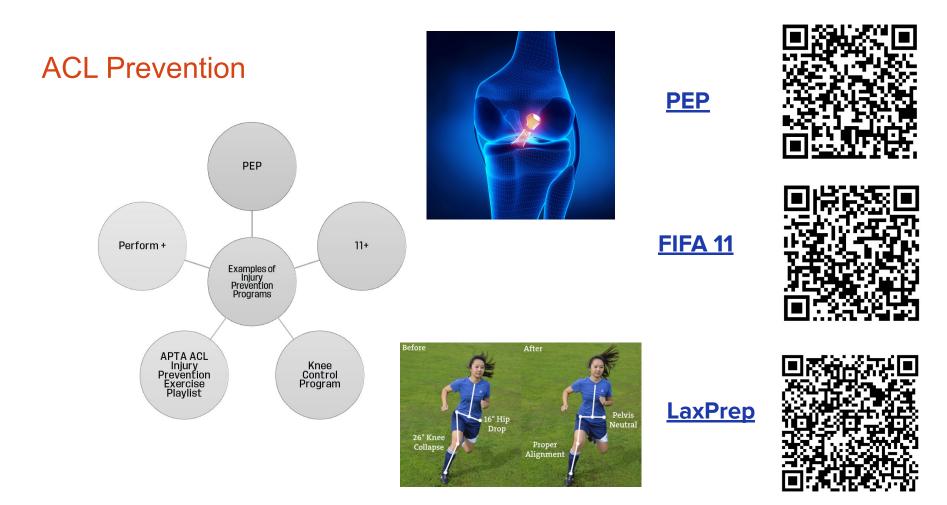


#### Injuries typical of specific sports / gender and prevention

- Soccer/Lacrosse/Other: ACL Prevention
  - FIFA 11
  - PEP
  - LaxPrep
- Baseball/Softball: Pitch Counts
- Overhead Athletes: Rotator Cuff Strengthening







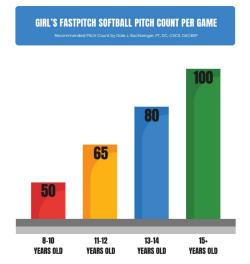
#### Baseball/Softball: Pitch Counts



Age	Daily Max (Pitches in Game)
7-8	50
9-10	75
11-12	85
13-14	95
15-16	95
17-18	105
19-22	120



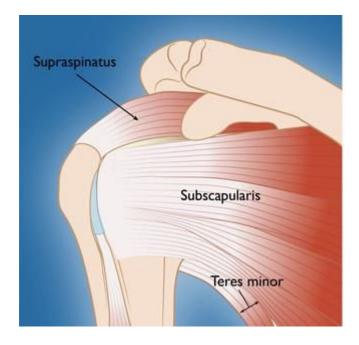






### No Official Guidelines for Softball

#### **Overhead Athletes: Rotator Cuff Strengthening**



#### **Rotator Cuff Strain Rehabilitation Exercises**





Resisted shoulder external rotation

Resisted shoulder internal rotation







Side-lying external rotation

Scaption

#### **Conditioning**, Exercise and Mindset

## WHY MODERATE WORKOUTS ARE BETTER THAN HARD WORKOUTS

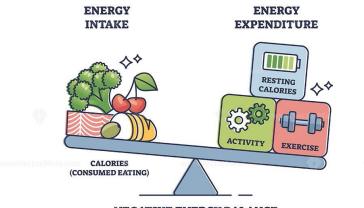


This chart is based off the data from study on the aerobic benefits of interval training, published in the European Journal of Applied Physiology. While the data is not factual, it represents my experience with runner progression as a coach



#### Conditioning, Intake and Mindset





**NEGATIVE ENERGY BALANCE** 

#### HYDRATION CHEAT SHEET

- Athletes should drink ½ to 1 ounce of water per pound of body weight before and after strenuous exercise, especially if they are playing in the sun, humidity or in a multi game environment
- 2. Eat your hydration!
- 3. Refer to urine chart to check hydration status
- 4. Electrolyte replacements are key in high heat and/or multi-game day/ weekends
  - a. Liquid IV (best), Nuun, SaltStick
  - b. 1 pack per water bottle before game and 1 pack after game in whole water bottle

EAFC Performance Specialist Gina Woodward Irwin, CSCS, XPS, CPSS\*



Conditioning, Exercise and Mindset

EVERY SINGLE DAY



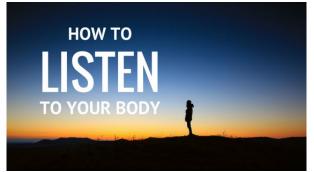


#### **Take Home Points**

- Prevention is year round but distinct in each phase
- Sport Specific Prevention Consistency is key
- Overall Prevention Takes time and determination
- Input/Output
- Listen to your body
- Be smart
- Have fun







#### **Questions?**

#### **Go Jackets!**







