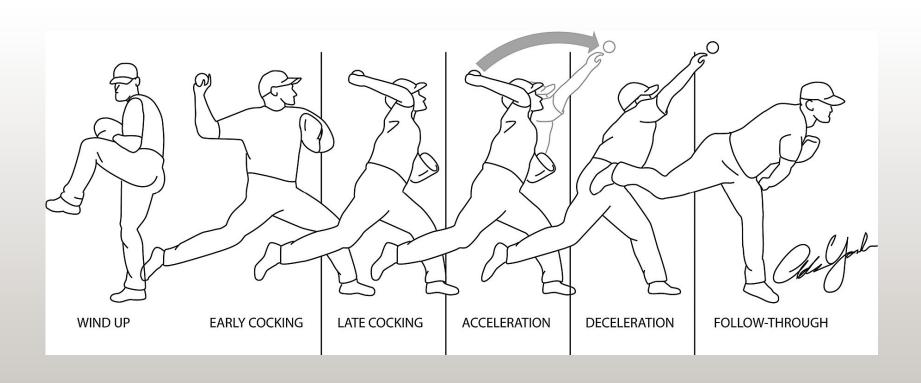
Proper Throwing Mechanics, Player Safety, and Injury Prevention for the Youth Baseball and Softball Player



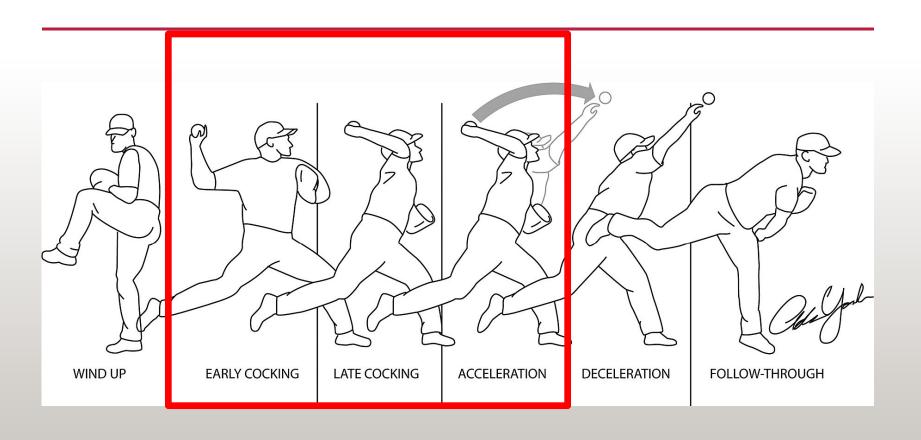
WHAT ARE THE GOALS FOR TODAY?

- Provide education on biomechanics of throwing for the youth athlete
- Present drills and practice ideas to reinforce proper throwing
- Discuss safe exercises for a healthy shoulder
- Injury prevention and signs of injury for the youth athlete

BREAKING DOWN THE PITCH

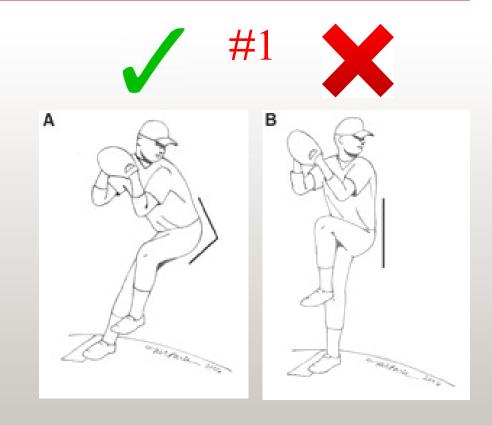


BREAKING DOWN THE PITCH



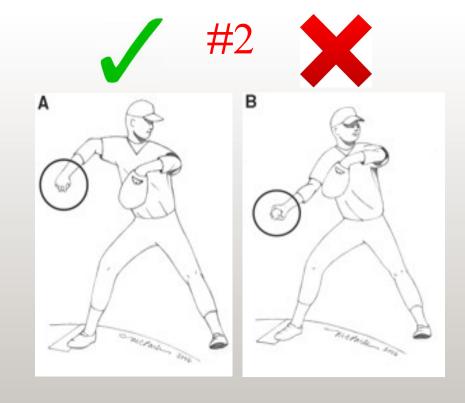
• LEAD WITH HIPS

 Not a common mistake for the youth athlete



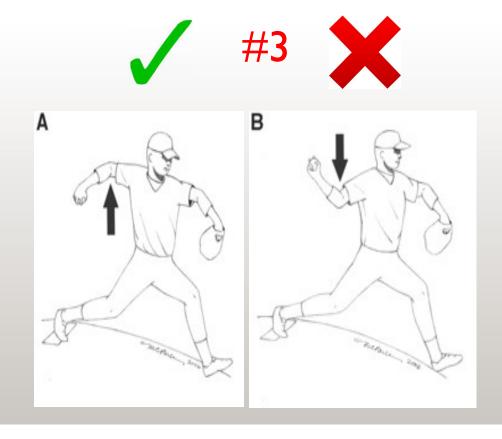
HAND ON TOP

 Allows for the elbow to be in the correct position in wind up and early cocking phase



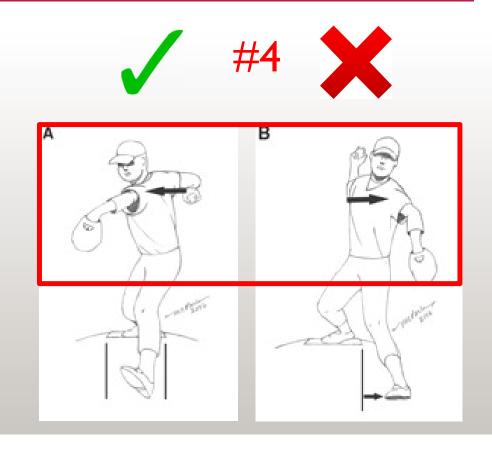
• ELBOW UP

 As acceleration phase starts, the elbow should be up

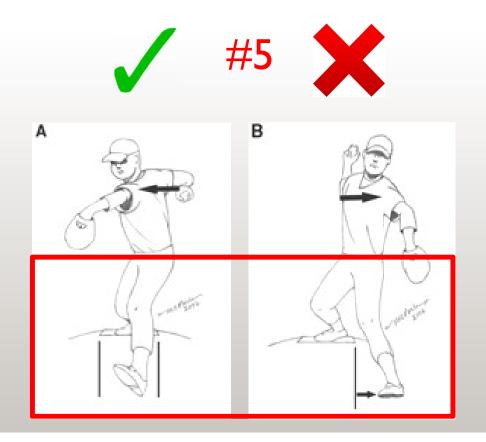


Closed Shoulder

 When moving into acceleration, you should not see the name of the team



- Foot towards home
 - A common mistake is to step towards first base



PROPER WARM UP BEFORE THROWING

- Arms and Trunk
 - Across arm windmill
 - Vertical windmill
 - External rotation
 - Trunk twists
 - Not Shown:
 - Bat swings

- Legs
 - Side Shuffle
 - Side Shuffle with Windmill
 - Karaoke Shuffle
 - Exaggerated Skip
 - Not Shown:
 - Ist to 3rd
 - Run the foul poles

THROWING DRILLS

- Always throw 4-seam during drills
- Watch them throw without cuing
 - Make some notes about each player
- When appropriate, take slo-motion video of the player
 - Motion happens very quickly



THROWING DRILLS

Beginner

- Two Knee Wrist Flick
- Single Knee Wrist Flick
- Two Knees Full Throw
- Single Knee Full Throw
- Standing Trunk Twist
- Towel Follow Through

Intermediate

- Beginner Drill in Standing
- Standing Follow Through Drill
- Fielding with throwing
 - Infield and Outfield
- Long Toss Drill

DRILLS FOR ADVANCED THROWERS

- Accuracy, Accuracy
 - Tie a balloon to a baseball T
 - Tipped over trash can at home plate
- Add crow-hop into throwing mechanics
 - Mark the foot placement when needed
- Throwing after fielding grounder/fly ball

Don't lose mechanics during functional drills!

- Important to know what to look and listen for
- Shoulder:
 - Decreased range of motion overhead
 - Difficulty sleeping on the shoulder
 - Pain when reaching behind or putting on a jacket/shirt
 - Decreased throwing velocity and distance
 - Altered throwing mechanics

- Important to know what to look and listen for
- Elbow:
 - Swelling and/or bruising over the inside of the elbow
 - Soreness at the inside of the elbow during or after throwing
 - Altered throwing mechanics
 - Decreased throwing velocity and distance

- The best tool for reducing risk of injury:
 - Proper throwing mechanics with first to last pitch
 - Adhering to pitch counts
 - Avoiding curves and sliders until body-age appropriate
 - Kids develop at different rates!

Follow the pitch count – it's there for a reason!

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League Age:
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13-16 - 95 pitches per day
11-12 - 85 pitches per day
9-10 - 75 pitches per day
7-8 - 50 pitches per day
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- Challenge comes with multiple leagues
 - Recruit parents, other coaches, create a log for each player
- Many great resources online

- For age appropriate athletes STRENGTHEN!
 - Usually around 13-years-old
- Guidelines for strengthening:
 - Light weight/resistance and high repetitions
 - Focus on mechanics of the exercise
 - Use resistance bands

THROWER'S TEN (MODIFIED)

- Overall strengthening program for the pitcher and thrower
- Modified certain exercises to cater to the youth athlete

Handout available in front

BIG TAKEAWAYS

- Proper throwing mechanics is the best tool for injury prevention
 - Be comfortable providing cues to players and parents
- Can't progress to higher level drills until mechanics are emphasized
 - Will likely be achieved at different times for players
- Safe strengthening is helpful for the age appropriate athlete

All videos can be found at:

http://connectionspt.com/patient-resources/patient-education/exercise-videos/

Thank you for the opportunity!

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