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The Full Windup vs. the Stretch March 8, 2008

A recent study out of the American Journal of Sports Medicine:

http://ajs.sagepub.com/cgi/content/abstract/36/1/137

looked at the mechanics differences (if any) between the full windup and the stretch since

"...many pitchers and coaches believe that pitching from the stretch produces less ball velocity or is more stressful on the throwing arm."

they compared mechanics of 28 Major and Minor League pitchers.

What Did They Find?

Velocity

The full windup increased velocity by only 0.5 mph which "translated to a difference of only 0.002 seconds in time for the ball to travel" from the pitcher's hand to home plate.

Stride Length

Nearly identical in both groups (71.2% of body height)

Arm Stress at the Elbow

Nearly identical in both groups (87.4 vs. 87.5 Newton-meters)

Arm Stress at the Shoulder

Higher in the full windup (98.5 vs. 97.5 Newton-meters)

Therefore:

"...pitching from the stretch is not necessarily more stressful the shoulder and elbow."

KEEP YOUR KIDS IN THE STRETCH. IT'S SIMPLER AND ALLOWS THEM TO FOCUS ON JUST MOVING AND BEING AN ATHLETE WHILE THROWING.

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