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The Curveball Debate Revisited: WHY Do They Cause Injury? March 12, 2012

A <u>front cover story in the NY Times</u> today:

March 11, 2012

Young Arms and Curveballs: A Scientific Twist

By BILL PENNINGTON

contains great information on curveballs and correctly states WHY they cause elbow injuries.

Many coaches still believe "it's the snap of the wrist that causes injury" but this theory was disproved in 2009:

Am J Sports Med. 2009 Aug;37(8):1492-8. Epub 2009 May 15.

A biomechanical comparison of the fastball and curveball in adolescent baseball pitchers.

Nissen CW, Westwell M, Ounpuu S, Patel M, Solomito M, Tate J.

Elite Sports Medicine, Connecticut Children's Medical Center, 399 Farmington Avenue, Farmington, Connecticut 06032, USA. cnissen@ccmckids.org

Instead, the article correctly states elbow injuries occur from a COMBINATION of

1) **Improper pitching mechanics** (in the form of tilting the shoulders to "get on top of the ball):

on the baseball field. Many kids don't have proper mechanics or enough neuromuscular control, or they are fatigued when throwing curveballs. Things break down.

As well as:

2) **Throwing too many pitches during the season** that is most common in kids who play year-round baseball:

One aspect of the curveball debate, and the studies it has spawned, that everyone agrees on is that throwing too many pitches of any type is the biggest danger.

How do you know if your pitching mechanics are correct?

You can make an appt with Dr. Arnold to get a pitching video analysis done.

Have Any Questions About This Newsletter?

Call (631-352-7654) or email (PitchingDoc@msn.com) Dr. Arnold!

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