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Justin Verlander's Secret for Dominance & Durability

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IN BASEBALL PITCHERS CHRIS O'LEARY

In a year in which Matt Harvey limped to the finish line of the season, Justin Verlander hit his peak in the postseason.

Why?

The conventional wisdom will tell you the answer to that question is simple.

JV's a freak.

Is it possible the conventional wisdom is correct?

Of course.

However, I have spent the past two years conducting an exhaustive study of Justin Verlander's pitching mechanics and I see a difference between Matt Harvey and Justin Verlander that the latest research says is significant.

A difference that I believe is the secret to reversing the epidemic of injuries in baseball pitchers.

CHRIS O'LEARY December 2017

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In May 2013, a writer with *New York Magazine* contacted me.

He was writing a piece on Matt Harvey, the gist of which was to explain why he was so successful.

I explained to the writer some of the reasons for his success, starting with the consistency of his release point on his pitches.

However, I then sounded a word of caution, expressing concern about a problem with Matt Harvey's Timing that I was seeing signs of.

Unfortunately, those expressions of concern didn't make it into the piece.

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"Here is a picture of Matt Harvey that shows the Timing problem that I am talking about and that concerns me. Given that his front foot is down, his pitching arm should be more vertical." CHRIS O'LEARY May 13, 2013 E-Mail to Matthew Giles of New York

Magazine

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What was I seeing? In sum, Timing refers to the position of the pitching arm when the shoulders start rotating, which is usually at foot plant.

If you look at Justin Verlander, his Timing is consistently good; his pitching arm is UP or nearly so when his front foot is planting.

What I was seeing in Matt Harvey was something quite different. Instead of being UP at foot plant, Matt Harvey's pitching arm was much closer to FLAT. Copyright © 201 Chris O'Leary

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TIMING

Why is Justin Verlander dominating the 2017 postseason, in his 13th season, while Matt Harvey limped to the finish line in just his 5th season? The conventional wisdom has a simple answer to that question. Justin Verlander is a freak. I've heard that a lot, and still hear it nearly every day, but have never been happy with it. Why not?

Because there are visible differences between Justin Verlander and Matt Harvey, starting with their Timing; the position of their pitching arm when their shoulders start rotating, which is usually at front foot plant.

What interesting is those same differences can be seen if you compare other injury-free and injury-prone pitchers. What's more, studies say that's NOT a coincidence.

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The differences I'm talking about may seem small, but when you are talking about a pitcher who is trying to throw the ball 100 mph, they can very quickly add up.

Chris O'Leary October 26, 2017

THE EPIDEMIC by Chris O'Leary

JUSTIN VERLANDER

At front foot plant, and the start of shoulder rotation, Justin Verlander's fingers are behind the ball and he is pointing the ball at third base. He also has not yet pulled with his gloveside elbow, which helps keep his shoulders in line with the target and closed while his pitching arm is getting UP. Most importantly, Justin Verlander's pitching arm is UP and at 90 degrees of external rotation at front foot plant.

www.chrisoleary.com

MATT HARVEY

At foot plant, Matt Harvey is staying long and is holding a position some call the Power T. His fingers are on top of the ball and his pitching arm is pronated and he is Pointing the Ball at Second Base. While all of that is widely taught, it's a problem because Matt Harvey's pitching arm is relatively FLAT into and at foot plant as a result While that likely helps Matt Harvey throw harder, it works by overloading his arm.



Saw @JustinVerlander pitch yesterday. Fastball. Dealing with easy velo. This is just... Need words... HE'S BACK!



While he struggled during much of 2014 and 2015, he finished the season strong, throwing a 1-hitter at the end of August, 2015. Hoping he was regaining his form, I made a point of following Justin Verlander during Spring Training 2016.

> I was not disappointed. It was obvious he had gotten past whatever the problems were that had limited him in 2014 and 2015. By the time I saw him again in January 2016, it was clear he was back to his old self. As a result, I started following the Tigers and him around the Midwest, filming him in an effort to fully document his pitching mechanics.

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In baseball pitchers CHRIS O'LEARY

The problem with a pitching arm that is FLAT and not UP at foot plant is it will tend to overload the arm by increasing the distance over which, and the force with which, the pitching arm externally rotates.

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The problem with the Timing problem — this FLAT ARM SYNDROME that you see in Matt Harvey and other pitchers is that it is a shortcut. A trick. It does work. It will give a pitcher a quick, easy velocity boost. The problem is that it works by overloading the pitching arm. That yields short-term gains but problems in the long term, which is why Matt Harvey's injury problems have been so easy to predict.

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When Matt Harvey breaks again, this is why. Didn't change anything after my 1st prediction. chrisoleary.com/projects/pitch ...



7:37 PM - 6 Apr 2016



24 1

Chris O'Learv

Good views of the Tommy John surgery Twist that continues to put Matt Harvey's elbow -and now shoulder -- at risk. clients.chrisoleary.com/Pitching/The-E ...





2:03 PM - 19 May 2017

When Matt Harvey breaks again, again it will be because he didn't fix his pitching mechanics. Again. Again. Again... chrisoleary.com/projects/pitch ...



1:31 PM - 18 Jul 2017

It's going to CRUSH Mets and their fans when Matt Harvey goes down.

Again. Again.

chrisoleary.com/projects/pitch ...



New York Mets @ @Mets Pitching update: @MattHarvey33 will start today vs. Atlanta. atmlb.com/2qjbxfr

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9:50 AM - 27 Apr 2017





See how Matt Harvey arm is flat when the NY logo on his chest starts to rotate? That's bad. chrisoleary.com/projects/pitch ...



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1:19 PM - 21 Mar 2016

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When Matt Harvey breaks, again, it will be because he didn't change anything, again. chrisoleary.com/projects/pitch ... PTB@2B clients.chrisoleary.com/Pitching/The-E ...



3:00 AM - 15 Feb 2017

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While Matt Harvey does a number of things that are problematic, including what I call the Power T, the most obvious problem is how he Points the Ball at Second Base. Yes, everybody teaches this. But it's a big reason why elbows are failing.

IN BASEBALL PITCHERS CHRISOLEARY Instead of Pointing the Ball at Second Base, Justin Verlander points it at Third Base. This is what most kids naturally do, which means there's no need to teach this. Copyright © 2017 Chris O'Leary

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The problem with Showing or Pointing the Ball at Second Base is it works by creating a Timing problem; by keeping the pitching arm from getting UP on time. That yields a quick and easy velocity boost in the short term, but overloads the arm and leads to elbow and shoulder problems in the long run.

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THE EPIDEMIC

Why can't Matt Harvey stay healthy? Why won't he stay healthy? While he doesn't employ the Horizontal W or the Inverted W, Matt Harvey is the embodiment of so much that is wrong with modern pitchers and pitching mechanics. **Tommy John Twist**

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No. No Line

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As he goes into Foot Plant, Matt Harvey keeps his fingers on top of the ball and points it at second base.

Terrible T After breaking his hands, Matt Harvey keeps his fingers on top of the ball and stays long. Hyperabduction

Matt Harvey points the ball at second base, and then holds that position into foot plant. That causes his pitching arm to elevate and hyperabduct. Into/At Foot Plant

Matt Harvey holds all of these problematic positions into foot plant. His pitching arm then externally rotates while he holds that pronated and hyperabducted position, greatly increasing the load on his arm. That first overloaded his elbow and is now compressing and stressing the bones and muscles inside his shoulder. That led to his TOS and will eventually lead to shoulder problems. www.chrisoleary.com

DO <u>NOT</u> POINT THE BALL AT SECOND BASE

In The Arm, Jeff Passan sneers at my contention that Matt Harvey's elbow problems could in any way be related to the way he points the ball at second base into/at foot plant, a problematic movement I call Premature Pronation or, more simply, the **Tommy John Twist**.

It's also the movement that helped me predict Matt Harvey's arm problems. If you take one thing away from this ebook, I hope you remember that Dr. Glenn Fleisig

of ASMI recently came to agree with me that there is at least no GOOD

> reason, and it may indeed be a

BAD idea, to teach pitchers and ballplayers to point the ball at second base. As a result, Dr. Fleisig recently advised USA Baseball to STOP advocating pointing the ball at second base.

> I suggest you listen to Dr. Fleisig, not Jeff Passan.

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In my experience working with college pitching coaches, Justin Verlander's combination of Dominance & Durability is attributed to his being a genetic freak. However, I think the clear and obvious differences between Justin Verlander and Matt Harvey, and JV's resemblance to other supposed genetic freaks, makes me wonder if Timing is far-more important than many people think or believe. Why did Mark Prior break down so often and, ultimately, fail to realize his promise?

I'd ask you to consider what Tom House and his apologists say and then consider a Timing-based theory.

Mark Prior showed the same Timing problem, and the same FLAT ARM SYNDROME, that you see in Matt Harvey and other pitchers who have had trouble staying healthy.

That suggests to me that the true root cause of Mark Prior's problems were the Timing problem his Inverted W created.

IN BASEBALL PITCHERS CHRISOLEARY Don't want to talk about Mark Prior? Fine.

His case is admittedly confounded.

So what happened to Anthony Reyes?

He was another Inverted W pitcher who quickly broke, I would argue due to the Timing problem his Inverted W created.

THE SECOND STREET STREE

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In my experience, the "but he was just a (genetic) freak" label is most often used with Nolan Ryan, another one of the most Dominant & Durable pitchers of all time.

However, if you compare Nolan Ryan to Justin Verlander, and contrast him with Matt Harvey, you can see the same pattern; a pitching arm that is UP, and not FLAT into Foot Plant.

IN BASEBALL PITCHERS CHRISO'LEARY

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When he isn't being called the next Babe Ruth, Shohei Ohtani is being compared to Nolan Ryan. However, Ohtani doesn't share Nolan Ryan's perfect Timing, so I have a hard time seeing Ohtani having the impact on the mound that Nolan Ryan did.

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With his resurgence, writers have taken to labelling prospects the next Justin Verlander, not the next Nolan Ryan.

I have a hard time believing any of those predictions because few if any of them have Justin Verlander's superior pitching mechanics and Timing.

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Why was Mariano Rivera as great as he was for as long as he was?

He's another pitcher who I've heard labelled genetic freak, but he's another pitcher who shared the superb Timing of Justin Verlander and Nolan Ryan.

Notice how, as he goes into front Foot Plant, Mariano Rivera's pitching arm is UP and not FLAT.

THE SECOND STREET STREE

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Joba Chamberlain was going to be the next big thing for the Yankees and the Joba Rules were going to keep him healthy.

Neither was true.

Why not?

See how Joba's arm is FLAT, not UP at foot plant?

That's bad.

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Hunter Harvey is one of the Orioles' top prospects.

When he's healthy. See that twist in the wrist of his pitching arm? That keeps his pitching arm FLAT, and keeps it from getting UP, into Foot Plant.

IN BASEBALL PITCHERS CHRIS-O'LEARY

Here's Justin Verlander again at front Foot Plant. Notice how, instead if twisting his wrist and/or trying to Point the Ball at Second Base, Justin Verlander instead is pointing the ball at Third Base. As a result, his pitching arm is free to get UP by Foot Plant.

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Forrest Whitley, who is one of the Astros' top pitching prospects, bears a much stronger resemblance to Hunter Harvey than to Justin Verlander, and I believe will have injury problems as a result.

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OOKS.

Tom Seaver is another **Dominant** & **Durable pitcher** and it's no surprise, to me at, least that he follows the same pattern that you see in Justin Verlander, Nolan Ryan, and Mariano Rivera and not what you see in Matt Harvey, Hunter Harvey, Joba Chamberlain, and the vast majority of other modern pitchers. At front Foot Plant, Tom Seaver's pitching arm was UP, not FLAT.

IN BASEBALL PITCHERS CHRISOLEARY

While Sonny Gray rightly know for his very obvious Inverted W, that is NOT why he faces an elevated risk of elbow and shoulder problems.

Rather, the reason why Sonny Gray is a major injury risk is the negative impact his Inverted W has on his Timing.

As this picture clearly demonstrates, Sonny Gray's Inverted W keeps his pitching arm from getting UP on time. Instead, at front Foot Plant, Sonny Gray's pitching arm is relatively FLAT. That likely helps him throw harder, but it does so by overloading his arm.

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CHRIS O'LEARY O'LEARY

Copyright © 2017 Chris O'Leary Noah Syndergaard's 2017 lat tear was attributed to his work-outs. The hope is a new work-out plan will get him back to health.

> I don't see that working unless Syndergaard also addresses his Timing.

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Sal Romano of the Reds is an example of pitcher who exhibits an even worse type of Timing problem in which the pitching arm isn't just FLAT at Foot Plant, it is actually beyond flat, or internally rotated.

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