Skills That Scale: Optimizing for Health & Development

Deven Morgan

Director of Youth Baseball

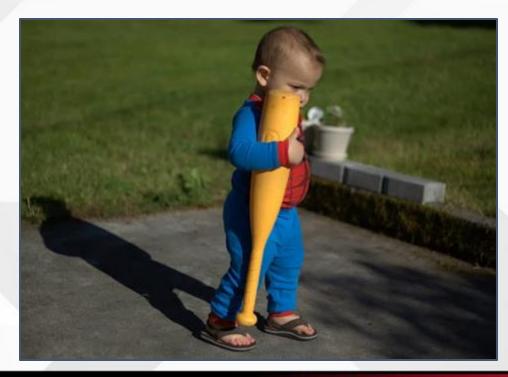
Driveline Baseball





Know Your Why









Know Your Why









Know Your Why









17,000,000





Driveline Academy - Structure

- 75% training 25% competition
 - o Skill
 - Strength / Athleticism
 - Test / Retest









Driveline Academy - Results

90 MPH Exit Velocity Army

- o 23 players in Dec '23
- o 45 players Jan '25
 - 20 more players 85-90 MPH EV

Outliers

- O Rian Eaton 16 yrs old 106.77 MPH
- Levi Baca 15 yrs old 103.26 MPH
- O Robbie Coma 15 yrs old 99.01 MPH







Optimizing for Health

 Keeping players healthy and ready to perform









Optimizing for Development

 Developing skill towards short and long term goals









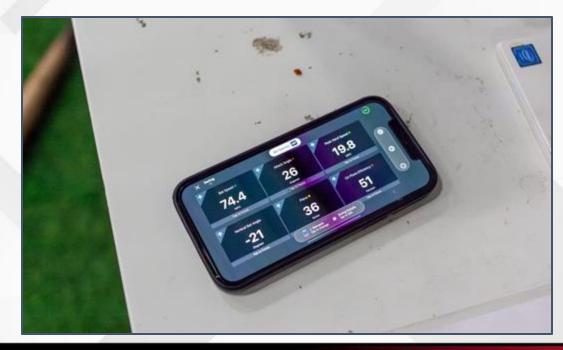
Tracking Health & Development

Tools

- o Scale
- Stopwatch
- o Pad & Paper
- o Radar Gun
- Bat Sensor
- o Arm Sensor
- Launch Monitor
- Force Plates

• The Point

o Insight







A Series Of Choices







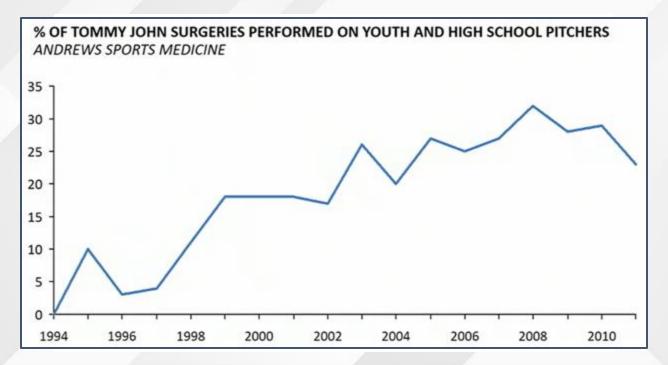
Health







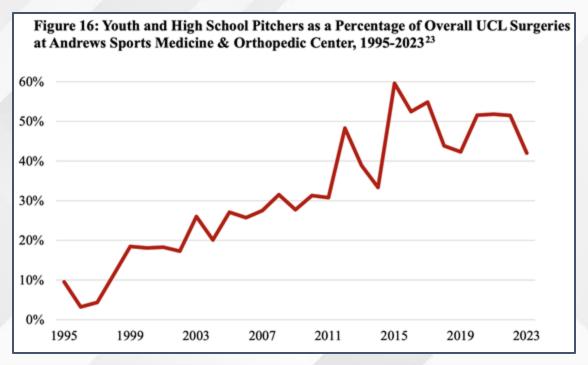
Health - Issues







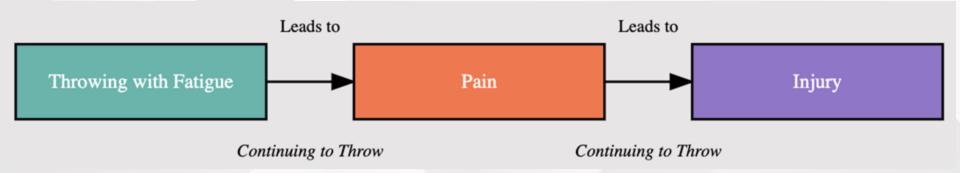
Health - Issues







Health - What We Know







Health - What We Know

Avoid Fatigue

In regards to overuse injuries that occur in youth baseball, **fatigue continues to be the driving factor**. Research work done at ASMI in Birmingham, Ala., and from the Andrews Research and

Education Institute (AREI) in Gulf Breeze, Fla., has proven that if a young baseball player plays with

fatigue, there is a 36 to 1 increased incidence that they can injure their throwing shoulder and/or elbow.





Health - What We Know

- Little League Elbow & Shoulder
 - Repetitive stress injuries
- Surgical Intervention
 - Growth plate
 - o UCL
- These are avoidable







Health - What We Can Do

- Appropriate warm up
- Moderation
 - Pitching & throwing volume
 - Pitching & position play
 - o Game volume
 - Time Off
- Commit
 - Can't be halfway pregnant







Healthy Habits - Dynamic Warm Up

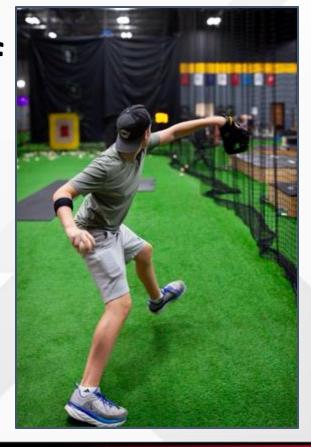
Poles = not it

Produce Force (sprint/jump/accelerate)
Accept Force (stop/land/decelerate)
Stabilize
Balance
Change Direction





- Workload
 - Effect of throwing on the player
 - Defined by
 - Volume
 - Intensity (arm speed)







- Acute Workload
 - Throwing volume and intensity from a single day

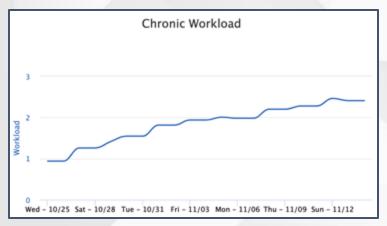








- Chronic Workload
 - Throwing volume and intensity over a longer period of time
 - Rolling average over the past28 days



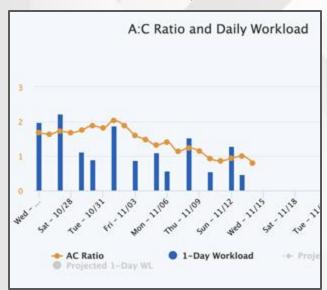


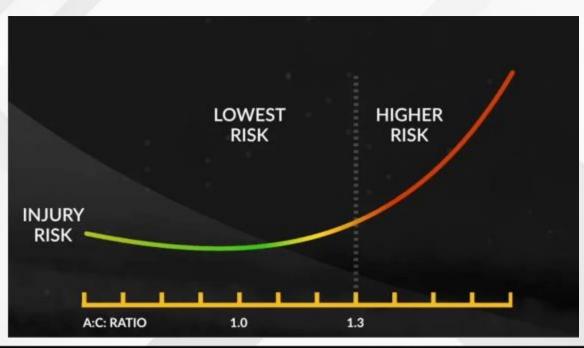




A:C Ratio

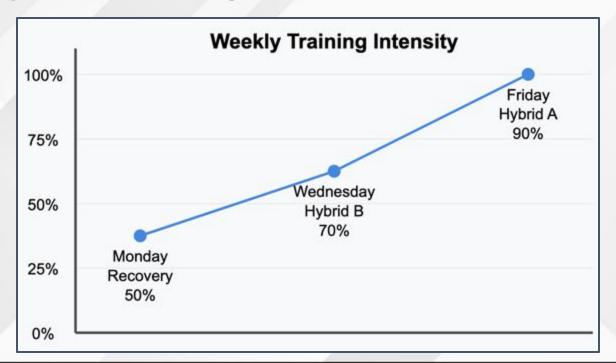
Avoid Spikes





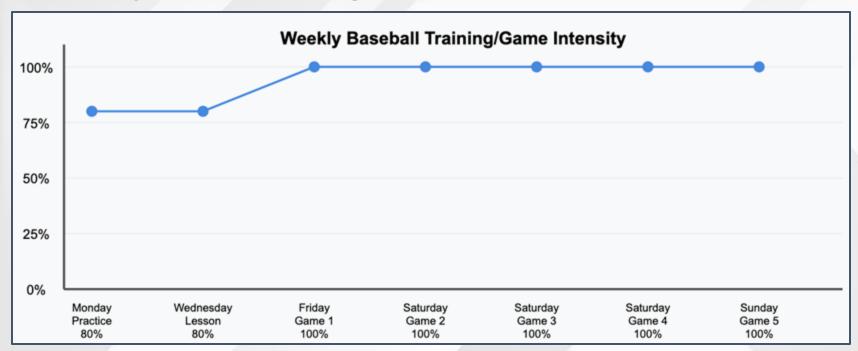
















• 9U Team

Overall Record

72-20-4





• 10U Fall Ball

PITCHING	IP	Н	R	ER	ВВ	so
#12 (L)	5.0	9	10	7	6	12
#22	1.0	0	0	0	0	1
TEAM	6.0	9	10	7	6	13

HBP: #12

Pitches-Strikes: #12 129-78, #22 14-10

Batters Faced: #12 32, #22 4





August	September	October	November	December	January
Time Off	Onboarding	Development	Development	Development	Competition Prep
February	March	April	May	June	July
Competition Prep	Competition	Competition	Competition	Competition	Competition





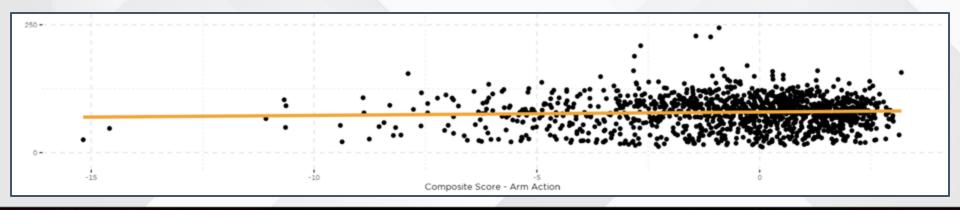
August	September	October	November	December	January
Fall Ball	Fall Ball	Fall Ball	Time Off	Winter Ball	Winter Ball
February	March	April	May	June	July
Winter Ball	Competition	Competition	Competition	Competition	Competition





Healthy Habits - Mechanics

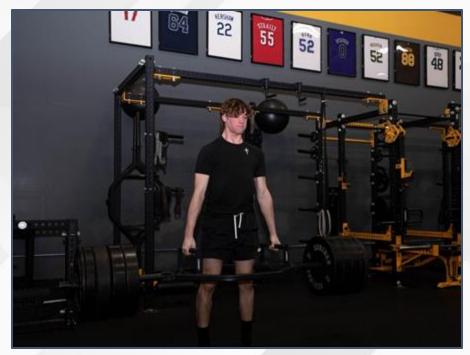
- Elbow Varus vs Arm Action
 - o R = 0.04
 - No correlation
- "Good" or "Bad" Mechanics
 - Stress is stress







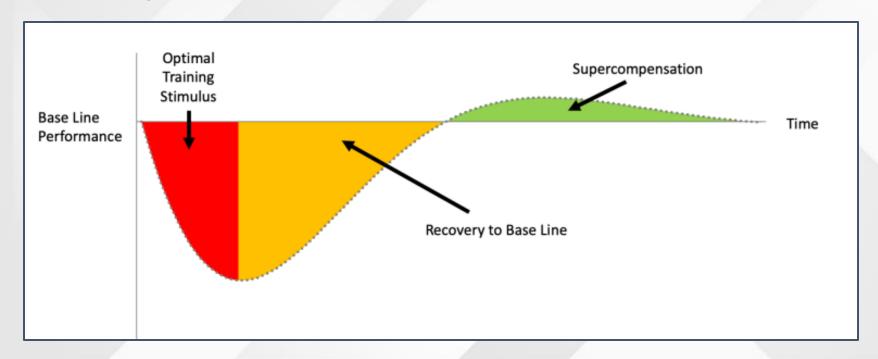
Development







Development - How It Works







Development - How It Works

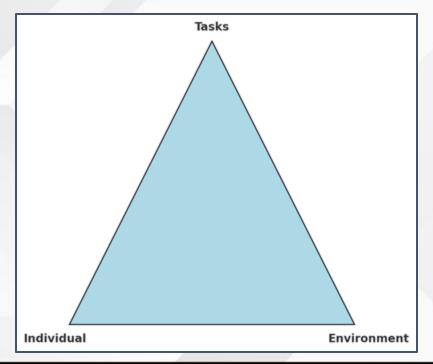






Development - What We Know Works

- Constraint Led Approach
 - + Performance
 - + Decision Making
 - + Adaptability







Development - What We Know Works

Tasks & Environment

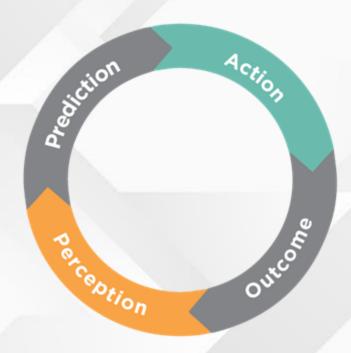






Development - What We Know Works

- Individual
 - Perception -> Action







- Time
- Consistent Intention
- Consistent Stimulus
- Rest & Recovery





Mark	Hitting	Throwing	Tactical / Base- ball 101	High Perfor- mance
Week	Player Onboard- ing @ Facility			
Week 1				Test
Week 2	On-Ramp / Bat	On-Ramp	Outside: Team Defense	LTAD Games
Week 3	Speed			
Week 4				
Week 5	Test / Deload	Test / Deload	N/A	Retest / Deload





Program Type	Bat Speed		
War	m Up		
Drill	Bat		
Offset Rotation	10x Youth Speed Trainer		
Trai	ning		
Drill	Bat	Constraint / Game	Constraint / Game 2
Drill Step Backs	Bat 10x Youth Speed Trainer	Constraint / Game Bat Speed Derby	Constraint / Game 2 Bat Speed Derby
			-
Step Backs	10x Youth Speed Trainer	Bat Speed Derby	Bat Speed Derby

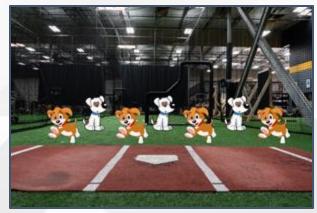




• Power Bat + Step Backs + Don't Hurt The Puppies











Development - Coaching It

- Cues
 - o External
 - Specific to the Game / Objective
 - Effect of action
- Kids Aren'tSmall Adults

Give Them Grace







Connect With Driveline Academy

Information

- Podcast
- Skills That Scale Youth Baseball Training Manual
- Free Youth Programs

Tools

- Youth Power Bat
- Youth Underload Smash Bat
- Youth Player Development Kit
- Youth Team Development Kit

Training

- Power Hour Free Hitting Session
- O Flex In-Gym & At-Home Training & Biomechanics





