

Vivo 7 Sports Physimax Presentation



Physimax Overview – For Performance & Injury Prevention

- Physimax Technologies has developed a solution designed to track and improve musculoskeletal (MSK) wellness and performance through objective, data-driven analysis of the athletes musculoskeletal condition.
- Using marker-less computer vision and machine learning analysis, Physimax MSK Snapshot is automatically generated by analysing the athlete's body movement patterns, scoring muscle performance (mobility, stability, strength, and movement control) according to evidence-based body movement protocols.
- The company's cloud service automatically measures and scores these protocols and provides data-driven, population-specific, comparable scores accompanied with actionable, personalized workout programs.
- Physimax Technologies is the choice of many elite organizations, including NBA teams, MLB teams, professional football/soccer teams, NCAA University/ college teams, U.S. Military units, top healthcare providers, and professional academies, and has been validated by top U.S. academic institutes as having a proven effect in reducing injury risk and expense.

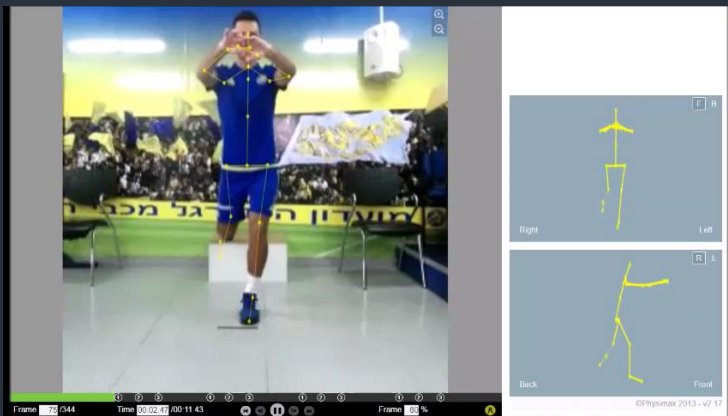


360 Cycle For Players

#01

Testing (Input)

Measure and capture athlete's MSK (Muscular-skeletal) Snapshot



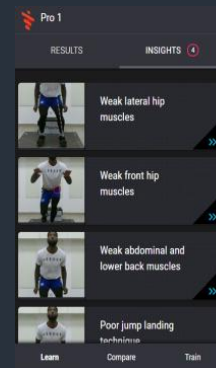
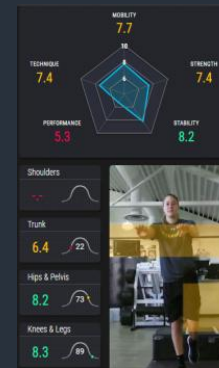
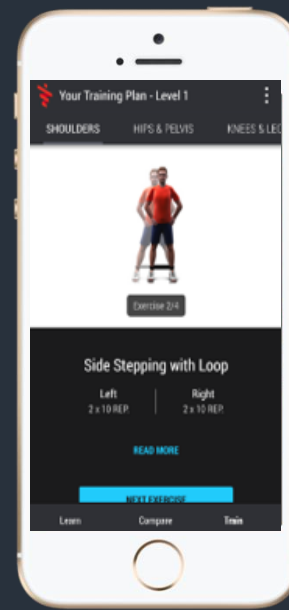
#02

**Learn
(Output):**
Gain Immediate
MSK condition
Insights



#03

**Train
(improvement
process)**
recommended
individualized training
program



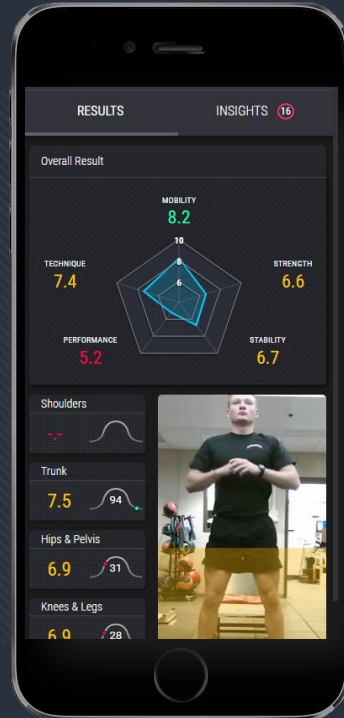
Digital Musculoskeletal Monitoring & Optimization

Capture



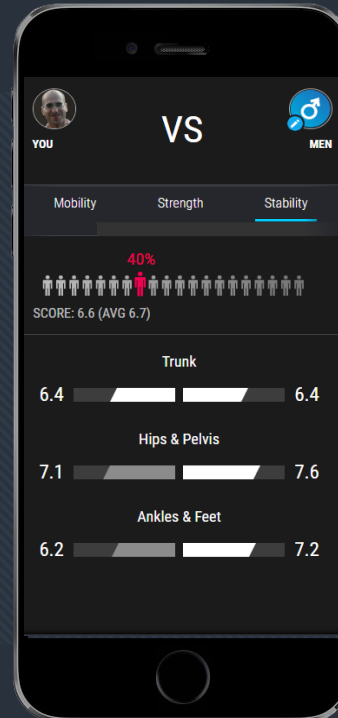
Self-Test with Mobile App
or 3-D Infrared Camera
Test

Score



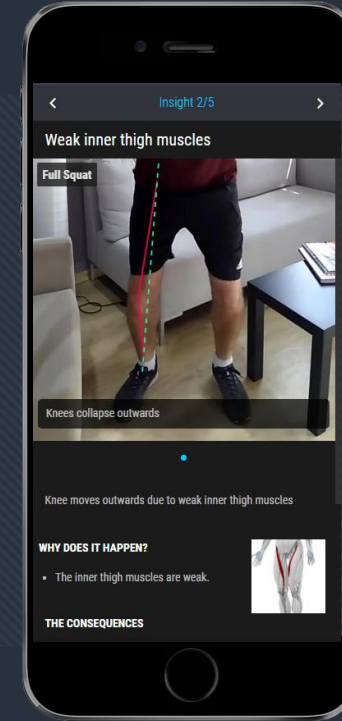
Personal scores
compared to relevant
Population

Compare



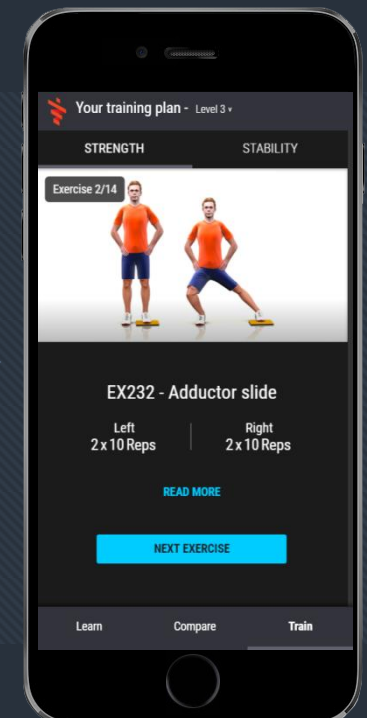
Compare yourself to
Friends/peers

Learn



Insights identifying
risk factors

Train & Track



Actionable Workout
Program; Track progress



1. Test Battery – Capture MSK Data

Landing Error Scoring System

Single Leg Squat

Lunge test (dorsiflexion)

Single Leg Vertical Drift hop

Shoulder Rotation

CMJ & R-CMJ

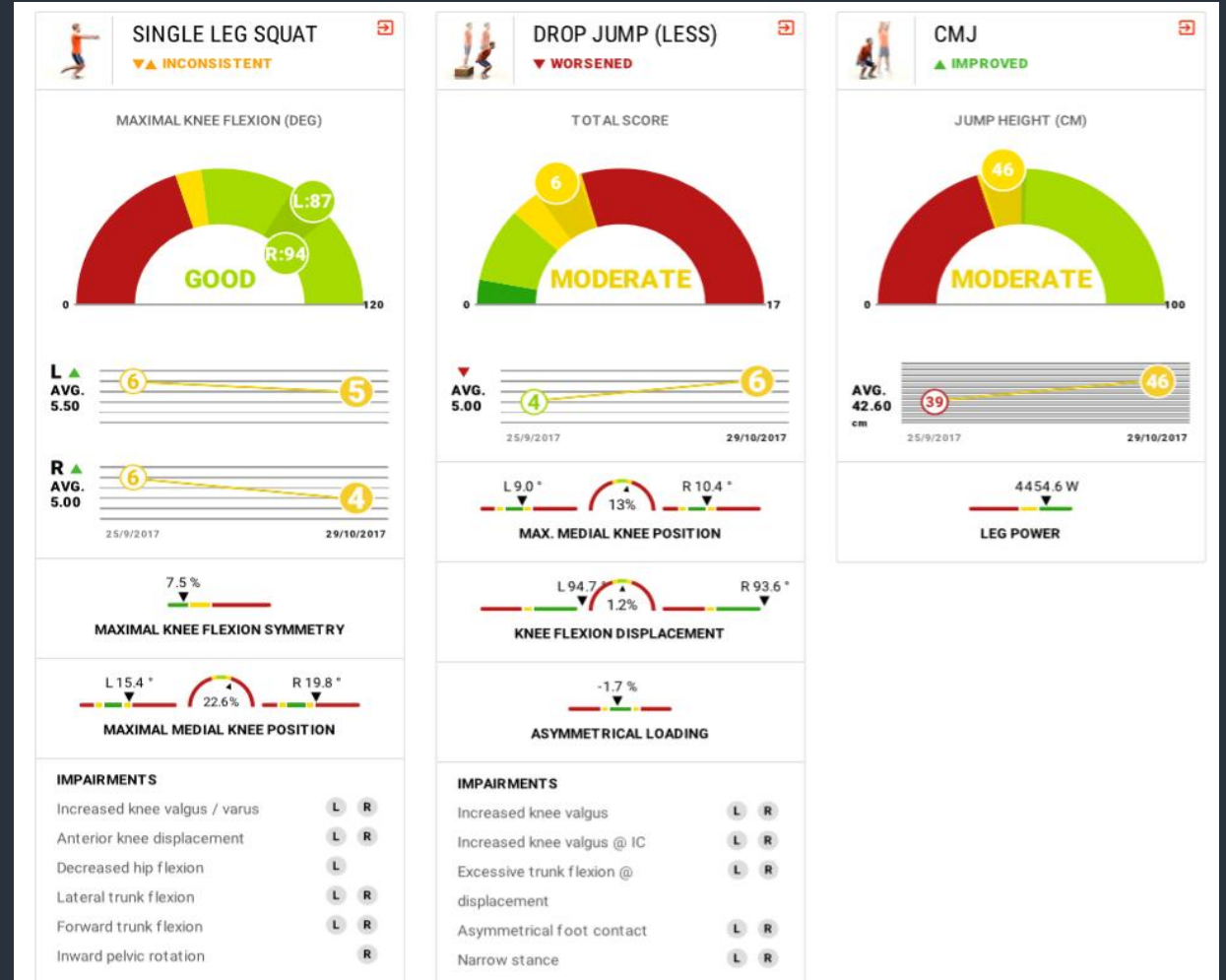
Double/OH Leg Squat

Single Leg Hop



2. Quantify MSK Data and Insights

Objective scoring
of injury risk level;
Tracking players'
progress



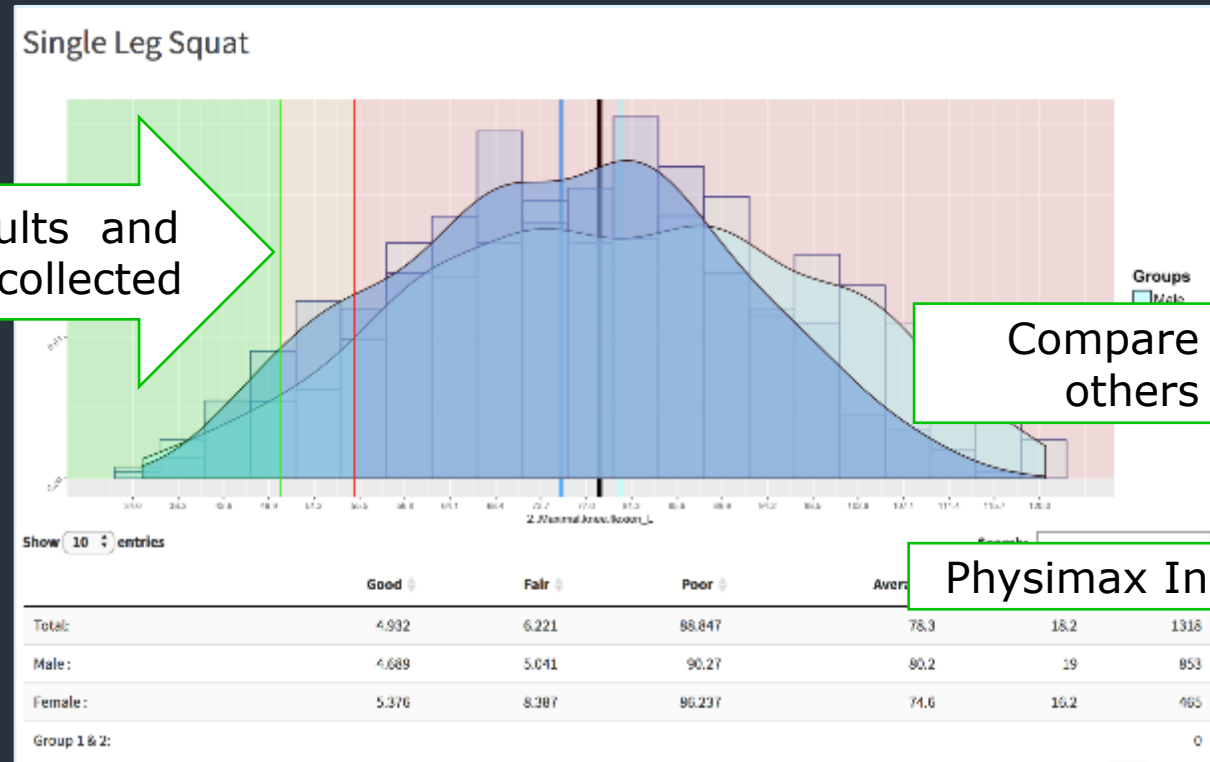
3. Segmented Comparative Scoring: Data-analytics tool for players' MSK capabilities

Assessment



Test results and metrics collected

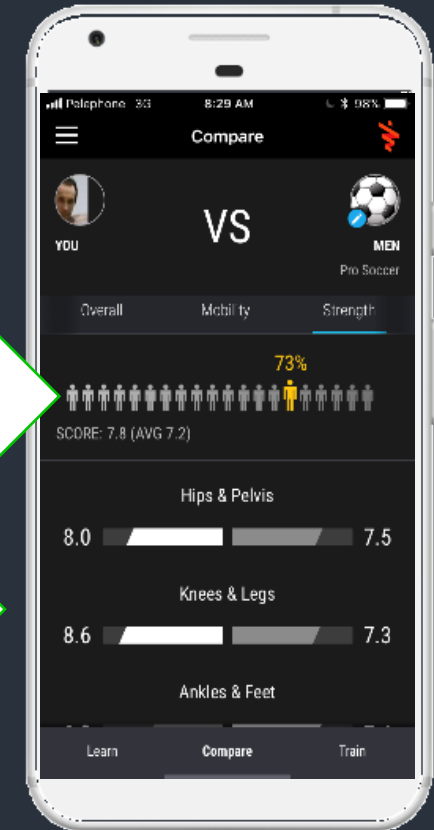
Analytics



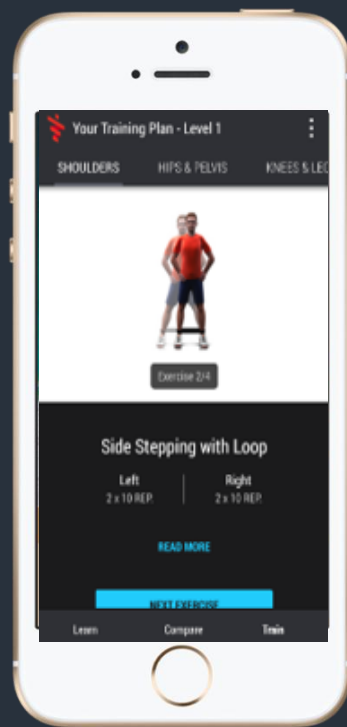
Compare to others

Physimax Index

User



Personal Program



Expert view

2018
CORRECTIVE TRAINING

Players

All players

Units

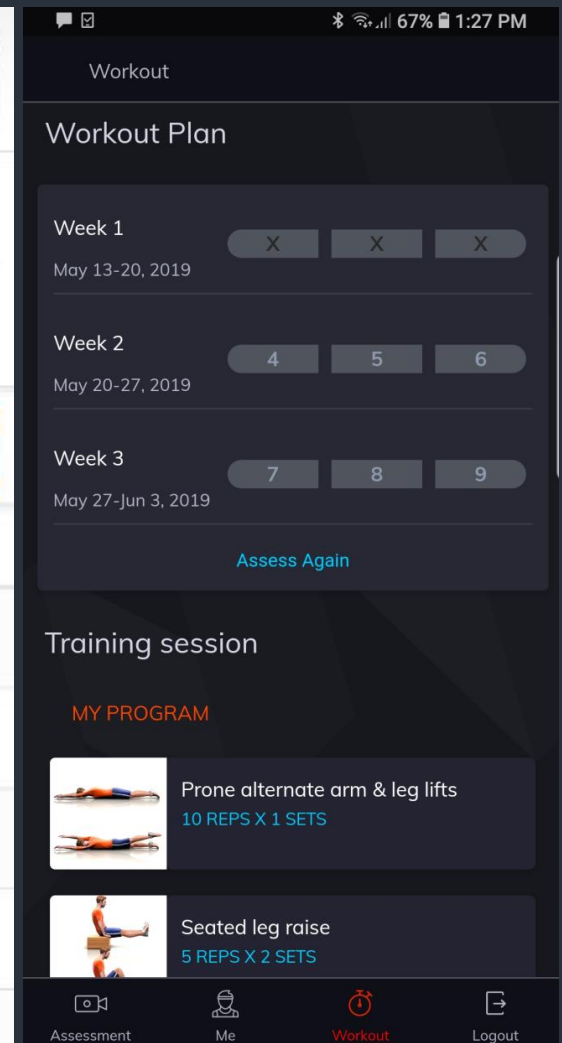
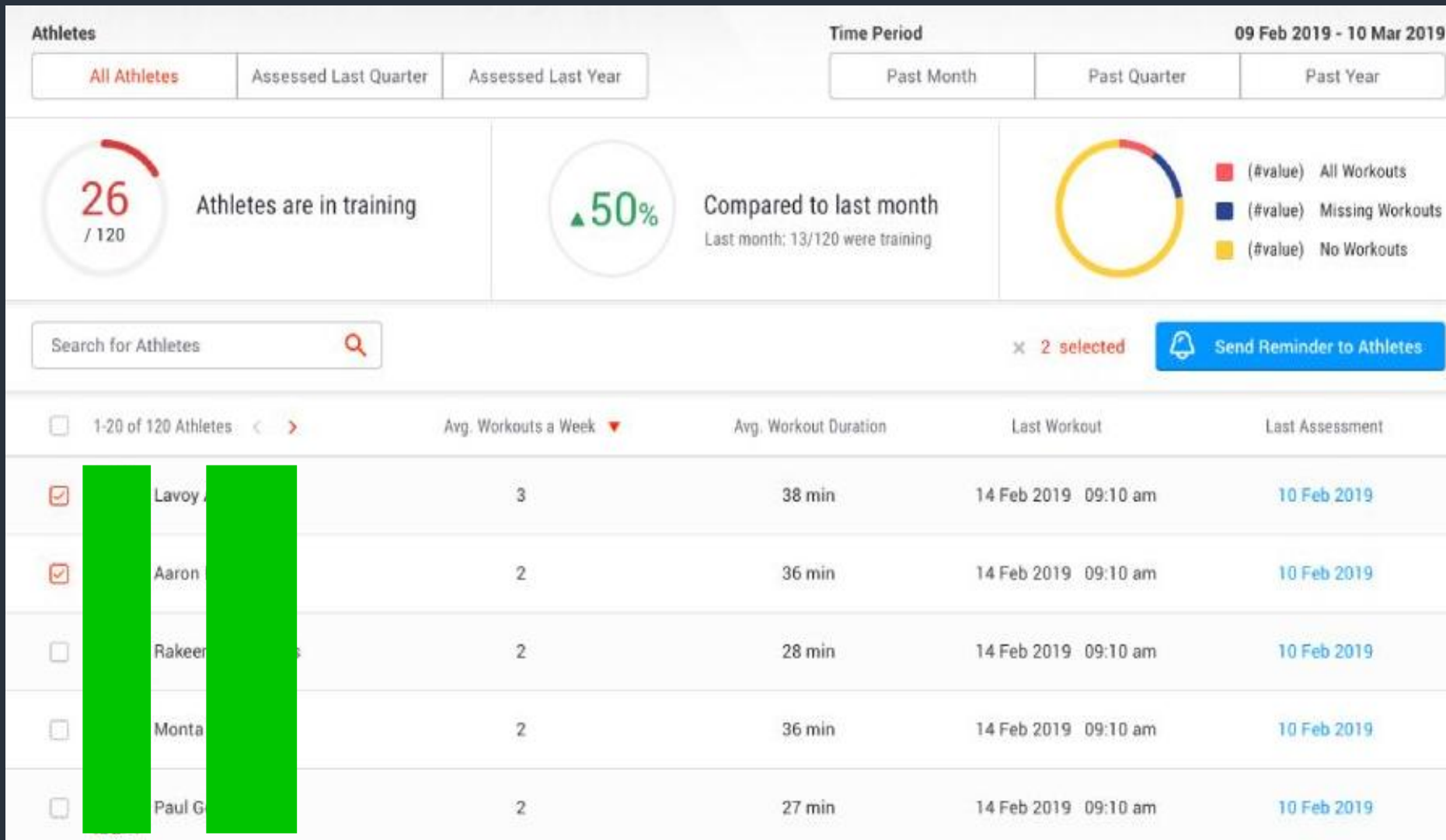
All units

Showing latest battery for each athlete for the period ending May 6 2018

	Strength									
	EX012 - Segmental Bridge With Ball Squeeze	EX016 - Side Stepping With Loop	EX020 - Segmental Bridge With Feet On Ball	EX035 - Double Leg Squat	EX039 - Wall Running	EX043 - Lunges With Ball Medicine Ball	EX094 - External Shoulder Rotation Strength	EX100 - Shoulder Abduction Strength		
	 Adductor Strength	 Adductor Strength	 Hamstrings Strength	 Concentric Hamstrings	 Ecc Quadriceps	 Hip Flexors	 Shoulder External Rotator Strength	 Shoulder Abductor Strength		
	10 REPS	L 10 REPS R	10 REPS	10 REPS	L 10 REPS R	L 10 REPS R	L 20 REPS R	20 REPS		
<input type="checkbox"/> Arie Gefer	2 Sets	2 Sets 3 Sets	2 Sets	2 Sets	2 Sets 3 Sets	2 Sets 2 Sets	1 Sets 1 Sets	2 Sets		
<input type="checkbox"/> David Kahani	2 Sets	3 Sets 2 Sets	2 Sets	2 Sets	2 Sets 3 Sets	2 Sets 3 Sets	1 Sets 1 Sets	2 Sets		
<input type="checkbox"/> Lavy Friedman	2 Sets	2 Sets 3 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 1 Sets	2 Sets		
<input type="checkbox"/> Nimrod Suzin	2 Sets	2 Sets 2 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 1 Sets	2 Sets		
<input type="checkbox"/> Alon Meytal	2 Sets	2 Sets 2 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 1 Sets	2 Sets		
<input type="checkbox"/> Sahar Konortov	2 Sets	2 Sets 3 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 1 Sets	2 Sets		
<input type="checkbox"/> Ravid Mitrany	2 Sets	2 Sets 3 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 2 Sets	2 Sets		
<input type="checkbox"/> Oren Cohen	2 Sets	2 Sets 2 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 2 Sets	2 Sets		
<input type="checkbox"/> Ram Shalev	2 Sets	2 Sets 3 Sets	2 Sets	2 Sets	2 Sets 2 Sets	2 Sets 2 Sets	1 Sets 1 Sets	2 Sets		

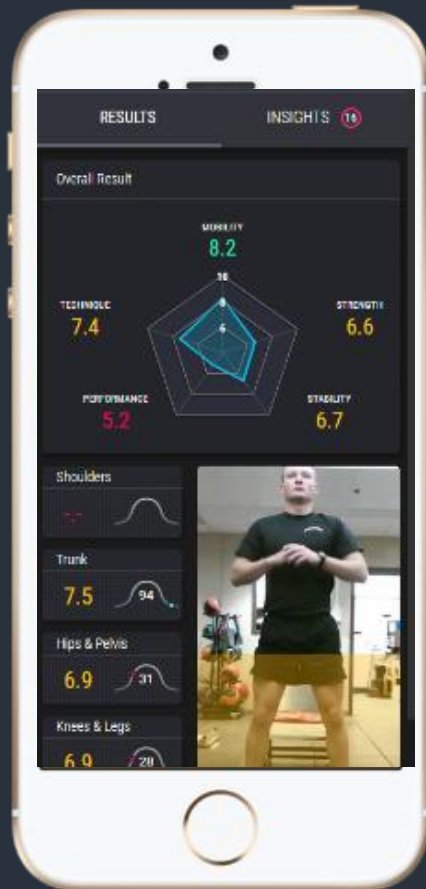
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4. Tracking Personal Workout Compliance

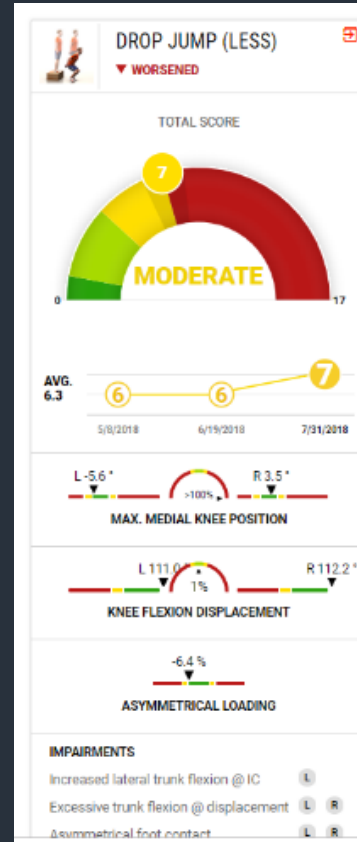


Musculoskeletal Routine Scoring & Highlights

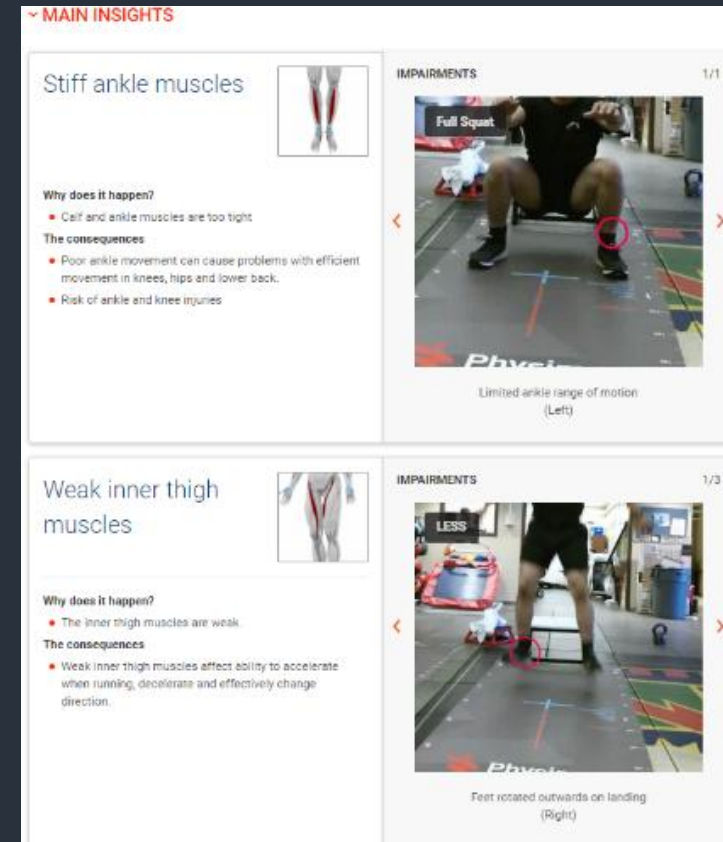
End User Score



Expert Dashboard



Insights



Youth or Adult - “Train Like a Pro”

Scalable (No need for Hardware), all via mobile App

Any place any time : On field, In Gym, At home
– Self assessment (COVID -19) No touch , No wearables

Engaging

Large database of youth soccer players & youth Athletes

Same concept as for Elite teams/players

Keep the coach/staff in the loop

Managed in the team level (Including compliance)

Affordable!



What Physimax Users Say

Physimax deepens in-house performance analysis with an easy-to-use tool that we can use anytime, anywhere. We are also able to track the player's progress and readiness on a regular basis

Bruno Mazziotti
Head Physiologist



Head Physiologist
Brazil National
Team



What Physimax Users Say

Physimax's analytics take our training to the next level, using the latest scientific methods to analyze and monitor players. This saved us precious time in our prevention workouts and let to 30% less non-contact injury

Juan Torrijo Navarro
Head Fitness Coach



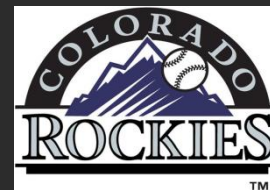
Former
Head
Fitness
Coach
Valencia CF



Head Performance
Chongqing Lifan
FC



Kylian Mbappe (PSG) going over his Physimax scores



What Physimax Users Say



Indiana
Pacers



Shawn Windle
Director of Sports Performance

Our medical and performance staff unanimously chose Physimax as our go-to-solution to deepen in-house performance analysis with an easy-to-use tool that we can use anytime, anywhere



University
of
Maryland



Dr. David Klossner
Associate Athletic Director / Sports Performance

Physimax helps us quantify athletes in a systematic way that is not taxing our staff or athletes. Athletes get more information about themselves to make individual decisions, coaches get more information about their team and their readiness. That's just exciting for everybody.



Collaborative Research Partners



- **Timothy Muantel, PhD** Musculoskeletal Injury Research Lead at Walter Reed National Military Center



- **Prof. Darin Padua** Chair, Department of Exercise & Sport Science at University of North Carolina, Chapel Hill



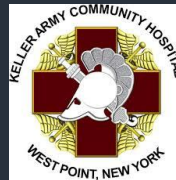
- **Barnett Frank, PhD** Director of performance & sport science at Utah Jazz



- **Prof. Lindsay Distefano** Head, Department of Kinesiology at University of Connecticut



- **Ken Cameron, PhD** Director of Orthopedic and Sports Medicine Research at Keller Army Hospital, Military Academy, West Point. Author in US Bone & Joint Initiative



- **Prof. Steve Marshall** Director of UNC's Injury Prevention Research Center, an epidemiologist



Physimax Impact in pro, collegiate sports

Lower Extremity Injury Risk



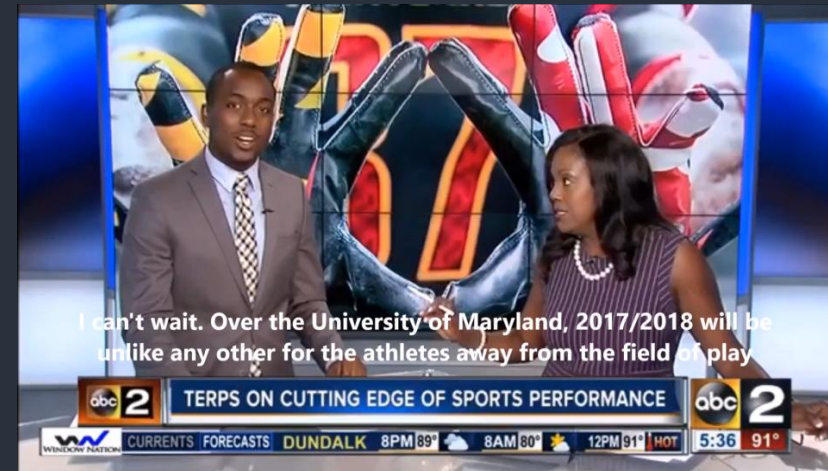
Proven ROI – UMD:
"0 non-contact knee injuries, 0 non-contact ankle injuries"



60%

Reduced Injury risk

Pro/collegiate athletes' population in high injury risk according to LESS score



Proven Impact: ROI, LE Injury Prediction



Injury Prediction Capacity:
Poor Physimax scores
-> 3x more Lower Extremities
injuries



FEATURED ON:

MARKETS
INSIDER
YAHOO!
FINANCE
sport
techie



Shawn Windle, Pacers Director
of Sports Performance

Players' Availability

NBA's #1 Team – Salary Dollars
saved to Injuries



Validated Technology by Top Academies, Military

Scoring vs. Human Experts 2015

Motion Analytics vs. Vicon 2017

Overuse-Injury Prediction 2017



Prof. Darin Padua
UNC Sports
Sciences



Used for research by:



Privacy, Security Externally Audited – Data Security

by: NBA, UCHealth

**HIPAA
Vulnerability &
Penetration
Test Scoring
(July-19)**





Integration with EMR & Athletic Management Systems

Two-way data
communication
integration; standardized
OAuth 2.0

Why our partners choose Physimax



Scientific

Objective
Validated
Scoring

Evidence-
based Tests



Data Rich

Extensive
coverage
Thousands:
Elite, College,
Competitive,
Youth,
Recreational



Quick & Simple

Closing the
loop

Portable
settings

Few minutes
per athlete

Automated
measurement
and scoring



Affordable

Proportional to
your capacity

SaaS annual
all-inclusive
fee



References

Elite, Pro & Olympic
Centers

Military

DI Colleges

Healthcare Providers



#1 Sport Performance Innovation Winners (2020)

