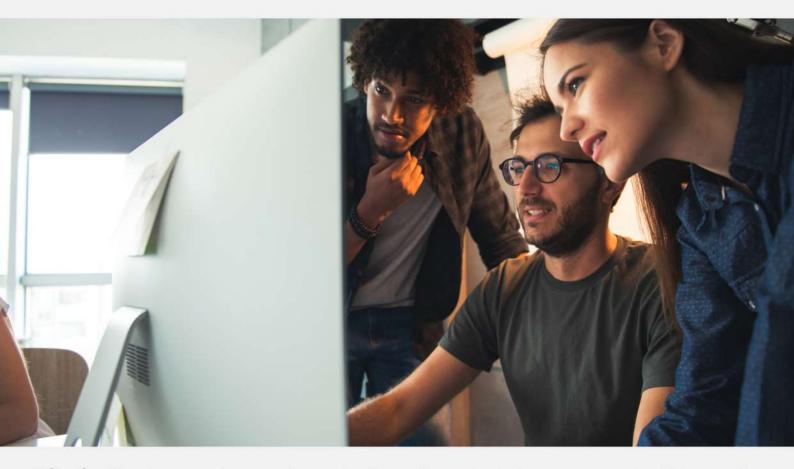


About us



VitalizeDx is an innovative startup founded by neuroscientist and entrepreneur Lavinia Alberi Auber, whose **multidisciplinary team** aims to support sports and corporate teams in enhancing their performance.

By monitoring key biomarker indicators of biological, psychological, physical, and biomechanical stress, we help teams achieve maximum condition and avoid injuries.

How we do it: We use non-invasive detection of salivary biomarkers and, through their intersection with self-reported and wearable biometrics, we create a digital model of each athlete that reflects their condition. The tests are repeatable without any need for medical staff and with the necessary periodicity (even daily).



Overtrain and Injuries

Prevalence & Risk

- 7-31% of elite athletes suffer from Overtraining Syndrome yearly
- Overuse accounts for 50-60% of all professional athlete injuries
- Up to 15–35% of male elite athletes suffer from underperformance due to overtraining

Human & Economic Cost

- Recovery costs per injury (e.g., ACL): €50K-€150K
- In European top leagues, injuries cost clubs €732K/year in salaries
 In elite basketball (League A): just 2 injuries can mean €600K in season losses

Impact on Team Performance

- Injury downtime correlates with lost matches, lower rankings & reduced revenue
- In football: 136 days of injury absence = 1 league point lost
- · Long recovery periods (avg. 44 days) lead to training gaps, mental fatigue & career disruption

The real-time, predictive monitoring of **VitalizeDx** can prevent **up to 40% of** missed performances, improve recovery, and reduce injury recurrence with savings of more than half a million/season.



TRAIN SMARTER

- PREDICT
- PREVENT
- PERFORM

Empowering Teams to Win

Insights:

VitalizeDx, by integrating salivary "fingerprints" with physiological, psychological, and biomechanical metrics via proprietary Artificial Intelligence algorithms, creates **Biodynamic Digital Twins** for each athlete that can monitor certain biological, physical, and mental levers that significantly affect team performance.

Benefits:

- Optimize team recovery
- Improve athletes' physical and mental resilience
- Maximize performance levers
- Reduce the risk of injuries





The tests, validated by an A1 Basketball team and numerous Triathlon athletes ensure:

- Accessibility
- Non-invasive testing
- · Self-administered without medical staff
- Reapetable according to the need (daily to weekly)
- · Digital front-end for athletes and coach on mApp
- Interoperability with other softwares and wearable signals
- Accuracy
- 98% detection accuracy
- 86% predictive power
- Actionability
- Real-time insights
- Personalized recommendations to optimize recovery and training
- Confidentiality
- Maximum confidentiality
- Data encryption with player and coach privacy
- Full control over data access and use

How we operate

We offer a modular product that is affordable for every league and athlete:

- Weekly personalized performance scorecards
- · Predictive reports with deep analytics of the team
- On-site and online assistance

Determining the Need

 Analysis in consultation with the team leader (coach or performance manager)

> Defining testing schedule and reporting

Non-invasive Testing

 Non-invasive testing before or after the sporting event

 Salivary sampling of up to 10 biomarkers

Twin Definition

 Real-time Intersection of biomarkers with psychological, physical, and biomechanical metrics

 Proxies of cardiometabolic tone and risk of injury

Al Pipeline

Players' classification/scores

 Detailed performance drivers and risk factors/Player

- Team performance landscape
- Drivers Interaction maps

Reporting

3

5

 Automated personalized scorecards

- Team condition profiles
- · Team landscape analysis
- Singles determinants' and Network Analysis

Post-Testing Support

- On-site specialists for activation in high load periods
- All assistant for daily support and rapid interpretation

Contact us



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