ADIDAS GUIDANCE ON OVERCOMING PRESSURE IN FOOTBALL

With the ambition to disarm pressure in sport – a feeling experienced by athletes of all levels – adidas has teamed up with leading sport neuroscientists, neuroll, to understand the impact it has within a game of football – in particular a penalty shootout scenario.

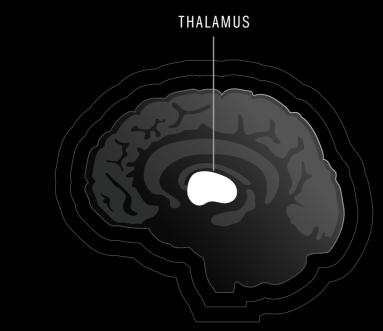
Working with Emiliano Martínez and Stina Blackstenius, as well as amateurs in the game, adidas and neurol1 delved into their minds to identify and analyse where pressure peaks.

From this data, a toolbox of techniques has been developed to help enable athletes to overcome it to access the optimal zone – the brain state in which athletes perform at their best.

NEURO11'S STATE OF THE ART TECHNOLOGY, WHEN CONNECTED TO AN ATHLETE IS ABLE TO IDENTIFY WHEN THE BRAIN IS...

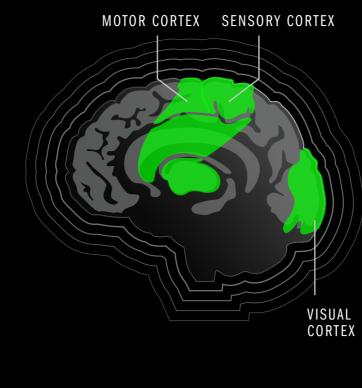


neuro 11



TOO LOW

Brain frequency is in the state associated with relaxation and/ **or tiredness** – this is deemed as too low for optimal performance



OPTIMAL ZONE Brain frequency is in the state

where it is **mentally focussed** and psychologically efficient this is deemed **ideal** for optimal performance and is often referred to as being 'in the zone'

ALL BRAIN REGIONS

TOO HIGH

Brain frequency is in an over analysis state – this is deemed as too high for optimal performance/ pressure is having a negative impact - your brain is falling out of the optimal zone and losing focus

NEURO11 SAY

and over thinking. This is where the athlete's brain is in a state which is physically relaxed but mentally focussed, leading to optimal movement and performance. Training with pressure (e.g. adding distractions to your penalty routine) can help athletes learn how to stay

"The 'OPTIMAL ZONE' is the sweet spot between relaxation

in the optimal zone for the big moments."

KEY TERMS



Individually calculated value which

BRAIN FOCUS INDEX

indicates how deeply the athletes brain is in the optimal frequency zone during performance and moments of pressure



Athlete's brain focus index pre training

BASELINE

- **serves as a reference value.** The brain is not doing exercise and is under no pressure, so it allows for comparisons to be made when training and moments of pressure occurs



'ADDING' PRESSURE

Implementing a tactic to the athlete's training session which intentionally puts pressure on them - i.e. adding a distraction before a penalty is taken



Brain focus index shows athlete is in the

IN THE ZONE

optimal zone for performance – a perfect balance of being mentally focused and yet physically relaxed



PRESSURE

Time constraints



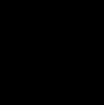
Self-expectation

in-game

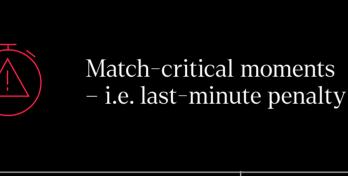


Wanting to

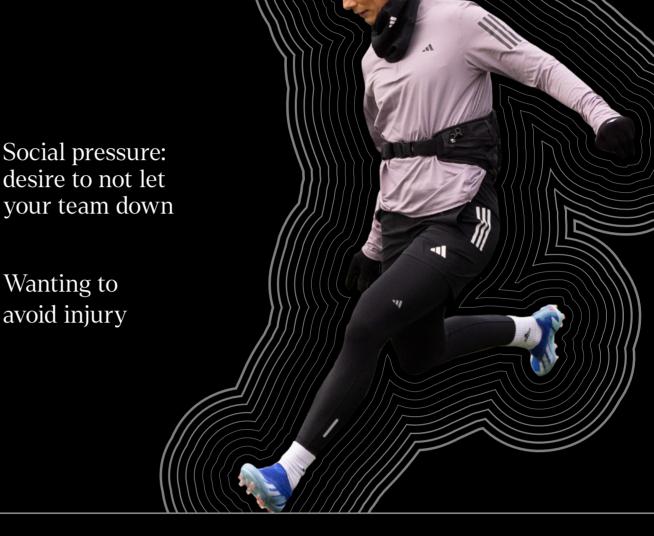




avoid injury



PENALTY KICK PRESSURE



STINA BLACKSTENIUS

IN GENERAL

PENALTY **SHOOTOUT**

11.7%

IN-GAME

6.7%

CLUB VS COUNTRY

6.1% PENALTY SHOOTOUT

FOR CLUB

PENALTY SHOOTOUT FOR COUNTRY

17.5%

SHOTS MISS THE TARGET COMPLETELY

PENALTY LEADS TO VICTORY

SHOTS MISS THE TARGET COMPLETELY

TEAM B × V

Exercise. 2023, Volume 65, doi: 10.1016/j.psychsport.2022.102369

Missing target stat: Brinkschulte M, Wunderlich F, Furley P, and Memmert D. 2023. The obligation to succeed when it matters the most-The influence of skill and pressure on the success in football penalty kicks. Psychology of Sport and

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PENALTY LEADS TO A LOSS

Penalty leads to victory vs loss: Jordet G and Hartmen E. Avoidance motivation and choking under pressure in soccer penalty shootouts. Journal of Sport and Exercise Psychology. 2008, Aug;30(4):450-7, doi: 10.1123/jsep.30.4.450. Erratum in: Journal of Sport and Exercise Psychology. 2009, Feb;31(1):128-9

EMILIANO MARTÍNEZ VS GRASSROOT GOALKEEPER PRESSURE

"Emi thrives in a penalty shootout condition,

owed to his world-class ability to handle pressure

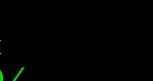
of this type. He can analyse the shooter's body

shape but then quickly find his switch to focus

on completing the perfect movement required

to save the shot" - NEUR011

IN PENALTY SHOOTOUT INCREASE INCREASE



IN OPTIMAL ZONE

IN OPTIMAL ZONE



EMI MARTÍNEZ



When it comes to penalties, I know that the odds are in the shooter's favour. However. I also believe that they are under higher pressure than myself. I always just try to maintain a clear mindset and stay focussed" - EMI MARTÍNEZ

INCREASE INCREASE



STINA BLACKSTENIUS VS GRASSROOT FOOTBALLER PRESSURE

that could be shot anywhere

as opposed to being

informed left or right.



IN OPTIMAL ZONE

EMI MARTÍNEZ

IN OPTIMAL ZONE

GRASSROOTS

GOALKEEPER

23% INCREASE BRAIN FOCUS INDEX INCREASE BRAIN FOCUS INDEX STINA BLACKSTENIUS GRASSROOTS FOOTBALLER

TAKING A PENALTY KICK **INCREASE**

'TOO HIGH' ZONE

INCREASE

'TOO HIGH' ZONE



STINA BLACKSTENIUS

GRASSROOTS FOOTBALLER

"The insight feels reassuring as there no denying that taking a penalty feels extremely pressurized for me. This largely stems from my previous experience of missing a crucial one during a European Championship when I was 17. I find

it difficult to detach myself from this

emotion and fully focus, so it's helpful

I can reach my optimal brain zone."

to know that with a set routine

- STINA BLACKSTENIUS

"Stina's brain focus index did not decrease

significantly when shooting towards her less

favoured side compared to her favoured side

(-15%) and she was also 6% less analytical

when doing so."- NEUR011



KNOW YOUR STATS: KEEP IT MOVING: Nearly a fifth of penalty shots Before the shot is taken, move your are taken down the middle, body around as this will help reduce any yet goalkeepers dive in almost physical stress build up in your body. Stay conscious to not overdo it, but any all cases. When you can, use this to your advantage and don't

WHEN SHOOTING:

G:

WHEN SAVIN



Your run-up should not give away which way you are going to shoot – this gives the goalkeeper an advantage. Likewise, avoid extravagant run-ups or unnecessary distraction techniques – instead, remain efficient and consistent with what you implement.

INSIDE EMI'S PENALTY SAVING ROUTINE



to an increase in a successful save.

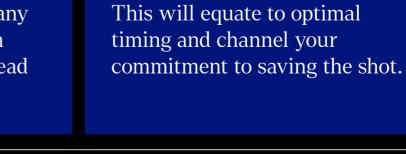
STICK TO YOUR DECISIONS: Know ahead of time who will be responsible for taking the penalty before the match to avoid irrelevant and more

distractions.

emotional brain regions of the shooter getting activated at the time. Then pick

your spot and stick with it – changing

last minute will welcome unwanted



AIM HIGH: Research from World Cups show

FIND YOUR SWITCH:

Identify the best moment in your

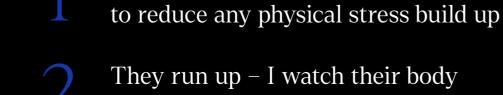
routine to switch and direct you

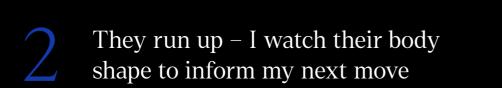
full focus to your saving action.

third of the goal, no matter the side or area, offers a near enough to 100% rate of scoring¹. Continue to target this region in training to finesse your pre-shot routine and technique, so you can replicate in-game.

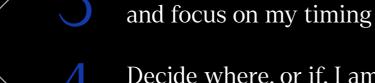
hitting the ball into the upper

On the goal line - I keep my body moving





I find my switch moment



 1 <u>https://theanalyst.com/</u> (accessed on 01.02.2024)

Decide where, or if, I am going to dive - I don't change my mind

Clear my mind, watch the strike and focus on saving it



