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When the Body Remembers: Autonomic Recalibration Following Multifactorial Insult—A 2026 Lived Experience Narrative with Clinical Correlates

Bruce H. Knox*

ATEMF Independent Scholar Auckland, New Zealand

***Corresponding Author:** Bruce H. Knox, ATEMF Independent Scholar Auckland, New Zealand.

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Abstract

Background

The autonomic nervous system plays a central role in maintaining physiological homeostasis through tightly coordinated regulation of cardiovascular, thermoregulatory, and neurocognitive processes [1]. Disruption of this system, commonly termed dysautonomia, produces complex and often poorly understood symptom constellations [2]. While much of the literature focuses on progressive or irreversible autonomic failure, less attention has been given to patterns of recovery following multifactorial insult.

Objective

To present a lived-experience narrative, anchored in clinical and physiological evidence, illustrating the process of autonomic recalibration, with particular emphasis on the restoration of sudomotor function as an early marker of systemic recovery.

Methods

This paper integrates first-person narrative with current medical literature, drawing on established research in autonomic physiology, sudomotor function, and dysautonomia. Observational insights are interpreted through a clinical framework supported by peer-reviewed evidence.

Results

The restoration of appropriately timed sweating reflects reactivation of sympathetic cholinergic pathways and indicates broader autonomic reintegration [3,4]. This recovery is associated with concurrent improvements in cardiovascular regulation, thermoregulation, cognitive clarity, fatigue modulation, and sleep architecture [2,5].

Conclusion

Normalization of sudomotor function may serve as an early and clinically meaningful indicator of autonomic recovery. This case supports the concept of functional reversibility in multifactorial secondary dysautonomia and highlights the importance of integrating patient narrative into clinical understanding [6].

The link that follows provides the musical interpretation of the factors behind this paper presented as an anthem of celebration and joy.

<https://heyzine.com/flip-book/57ae3d29d8.html>

Keywords: Autonomic Nervous System, Dysautonomia, Sudomotor Function, Thermoregulation, Heart Rate Variability, Lived Experience, Recovery, Medical Humanities

Introduction

The autonomic nervous system governs essential involuntary functions including cardiovascular regulation, thermoregulation, and visceral activity [1]. Its two primary divisions—the sympathetic and parasympathetic systems—operate in dynamic balance to maintain internal stability [1]. Disruption to this balance, broadly described as dysautonomia, can result in widespread physiological dysregulation affecting multiple organ systems [2].

Sudomotor function, controlled predominantly by the sympathetic nervous system, represents one of the most sensitive indicators of autonomic integrity [3]. Unlike most sympathetic pathways, sudomotor fibres are cholinergic, relying on acetylcholine to activate eccrine sweat glands [3]. Abnormalities in sweating—whether excessive, reduced, or temporally inappropriate—are well-recognised features of autonomic dysfunction and are frequently used in clinical assessment [1,4].

While considerable attention has been given to progressive autonomic disorders, such as neurodegenerative conditions, the literature is less developed in describing recovery trajectories following multifactorial autonomic insult [6,7].

Methods

This study adopts a narrative medicine approach, integrating lived experience with established clinical and physiological literature. Observations are interpreted through existing frameworks of autonomic function, including sudomotor physiology, baroreflex regulation, and central autonomic network integration [6].

Relevant literature was selected from peer-reviewed journals focusing on autonomic neuroscience, clinical neurology, and physiological regulation. All references are presented using Vancouver citation protocols.

Case Narrative and Observations

Phase 1: Dysregulation

The initial phase was characterised by widespread autonomic instability. Sweating patterns became erratic—occurring excessively, insufficiently, or at inappropriate times [1,4]. Thermoregulation was impaired, resulting in alternating intolerance to heat and cold [4].

This was accompanied by cardiovascular instability, including postural intolerance, and cognitive dysfunction commonly described as “brain fog” [2,5]. Fatigue was disproportionate and unpredictable, and sleep was fragmented and non-restorative [5]. Such manifestations are consistent with systemic dysautonomia, reflecting disruption of coordinated autonomic signalling [2,6].

Phase 2: Transition

Over time, intermittent periods of partial regulation emerged. Symptoms fluctuated, with temporary improvements followed by regression. This phase likely reflects ongoing recalibration within the central autonomic network [6].

Phase 3: Recalibration and Recovery

A defining moment in the recovery process was the restoration of appropriately timed sweating. In response to environmental heat or exertion, sweating occurred proportionally and predictably [3,4].

From a physiological perspective, this indicates restoration of sudomotor pathway integrity, including peripheral small fibre function and central regulatory input [3,4].

This change was not isolated. It coincided with a broader pattern of systemic improvement:

- Stabilisation of cardiovascular responses, reflecting improved baroreflex function [2]
- Enhanced heart rate variability, indicating improved autonomic flexibility [2]
- Normalisation of thermoregulation [4]
- Reduction in cognitive dysfunction, consistent with improved cerebral perfusion [5]
- Transition from unpredictable fatigue to activity-dependent tiredness [5]
- Restoration of sleep quality and circadian rhythm stability [2]

Patient Voice: “The Moment the Body Spoke Clearly Again”

There is a quiet moment in recovery that no scan captures, no test records, and no clinical metric fully explains.

For me, it was sweating.

Not the distressing, disordered sweating that had come before—too much, too little, or at the wrong times—but something profoundly simple: I became warm, and I began to sweat. Appropriately. Proportionately. Without confusion.

In that moment, my body was no longer arguing with itself.

For 50 months, I had lived in a state where nothing aligned. My heart would race without reason. Standing felt like a

negotiation. Temperature was either overwhelming or absent. Fatigue arrived without cause and lingered without logic. Thinking became slow, fragmented, unreliable.

What made this particularly difficult was not simply the symptoms, but their lack of coherence.

And then, gradually, that coherence returned.

Sweating was the first moment I could clearly identify—not because it was the most important function, but because it was the most unambiguous.

From there, other things followed.

I could stand without thinking.

I could think without fog.

I could feel tired because I had done something.

I could sleep and wake restored.

These are small things in medicine.

But in lived experience, they are everything.

When I say “I am sweating properly again,” I mean

My body is responding to the world as it should.

Discussion

The findings align with current understanding of autonomic physiology.

Sudomotor function is a sensitive marker of small fibre and autonomic integrity [1,4]. Its restoration suggests both peripheral and central recovery [6].

Importantly, this pattern is inconsistent with progressive neurodegenerative autonomic disorders, where function typically declines [7]. Instead, it supports functional reversibility following multifactorial insult [6].

The central autonomic network demonstrates capacity for reorganisation and recovery, a process increasingly recognised as autonomic plasticity [6].

This case reinforces that patient narrative is not supplementary—it is diagnostic context.

Key Messages for Clinicians

- Sudomotor recovery is an early indicator of autonomic recalibration [1,4]
- Assess timing and proportionality, not just symptom presence
- Multifactorial dysautonomia may be reversible [6,7]
- Patient narrative provides critical dynamic insight
- Recovery reflects systems reintegration, not isolated improvement

Implications for Practice

- Incorporate sudomotor observations into longitudinal assessment
- Recognise recovery patterns as clinically meaningful signals
- Integrate narrative alongside physiological testing
- Adopt a systems-based view of recovery

Conclusion

The return of appropriate sweating represents the restoration of coordinated autonomic function [1,3].

This narrative demonstrates that autonomic dysfunction may be dynamic, adaptive, and reversible [6,7].

It is not simply that the system turns back on.

It remembers how to respond.

Declarations

Conflicts of Interest

None

Funding

None

Ethical Approval

Not required

Patient Consent

Provided

When the Body Remembers

A Choral Anthem of Autonomic Restoration

The Following Link Provides You With The Musical Expression Of These Lyrics

<https://heyzine.com/flip-book/57ae3d29d8.html>

- We were scattered in the silence,
Signals lost within the storm,
Every rhythm out of timing,
Every function out of form.
 - In the shadows of confusion,
Where no pattern could be found,
Body whispered without language—
No coherence in the sound.
- There was heat without an answer,
There was cold without a name,
There was effort without meaning,
There was loss without a frame.
- Heart would rise without a reason,
Thought would fracture into haze,
Every step became a question,
Every hour lost its place.
 - But the body remembers—
What it once knew before,
Every rhythm returning,
Every closed, opening door.
 - From the depths of disorder,
Through the silence we came,
Now the signals are singing—
And the body knows its name.
- When the warmth touched the skin,
There was answer within,
Not too early, not late,
But aligned with its state.
 - Sweat like rain in its season,
Measured, calm, and precise,
Not a symptom of chaos—
But a return to what's right.
- This is how the healing speaks,
Not in thunder, but in timing,
Not in force, but in truth.
 - Now the body remembers—
How to answer the call,
Every system in harmony,
Every rise, every fall.
 - Heart is steady in standing,
Mind is clear in its sight,
Heat and cold in their balance,
Day returning to night.
- Thought is flowing like rivers,
No obstruction, no strain,

Energy follows the effort,
Loss no longer remains.
• Sleep descends like a blessing,
Rest restores what was torn,
In the quiet of nightfall—
A new rhythm is born.

• Sing it out—
The body remembers!
From the fracture to flame,
From the silence to singing,
From the loss to reclaim!
• Every signal in chorus,
Every pathway aligned,
From the depths of disorder—
Now coherence we find!

• It is not just returning—
It is learning once more,
To be whole in the moment,
To be self at the core.

• The body remembers...
And we rise.

References (Vancouver Style)

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