

# Overstimulation: The Growing Health Dilemma

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## Introduction

Overstimulation is not currently classified as an official public health diagnosis or medical condition.

However, many experts believe chronic stress, nonstop stimulation, poor sleep, digital overload, emotional exhaustion, and nervous system dysregulation are contributing to growing physical and mental health challenges across society (1, 3, 5, 8).

While overstimulation is not an official medical diagnosis, the effects of chronic stress, excessive stimulation, poor sleep, and nervous system overload are widely studied.

When I use the term “overstimulation” in this article, I am referring to the constant flood of stress, noise, information, screen exposure, pressure, urgency, distraction, and emotional overload many people experience daily.

We have normalized:

- chronic stress
- constant noise
- doom scrolling
- overstimulation
- hustle culture
- emotional suppression
- sleep deprivation
- nervous system dysregulation
- running on caffeine, cortisol, and exhaustion

Many people are burning the candle at both ends trying to keep up with a world that constantly demands more.

More productivity.

More consumption.

More speed.

More notifications.

More availability.

More stimulation.

Technology itself is not the enemy. The concern is how constant exposure without adequate recovery may affect the brain and nervous system over time.

Imagine driving a car with the gas pedal constantly pressed down, never giving the engine time to cool off or receive maintenance.

Eventually, something begins breaking down.

The pressure to constantly achieve, consume, produce, respond faster, stay online, and stay distracted may disrupt the body's natural balance and stress-response systems in real time.

Eventually, the effects of chronic stress and overstimulation begin showing up throughout the body.

In this article, you will learn:

- what overstimulation really is
- how chronic stress may dysregulate the nervous system
- why so many people feel exhausted, anxious, overwhelmed, and “wired but tired”
- how overstimulation may affect inflammation, hormones, blood sugar, sleep, digestion, and energy production
- the connection between overstimulation, persistent fatigue, and heart palpitations like supraventricular tachycardias (SVTs)
- how the gut, brain, and nervous system communicate with each other
- why omega-3s and cell membrane fluidity may matter more than many people realize
- how neuroplasticity and nervous system retraining may help support recovery
- why chronic stimulation of biological pathways, including glucagon-like peptide-1 (GLP-1) receptor stimulation, is raising new questions among some researchers and clinicians
- practical ways to calm the nervous system and help the body recover

Research shows that chronic stress and overstimulation may elevate cortisol, disrupt blood sugar balance, increase inflammation, weaken the immune system, affect hormones, damage sleep quality, and contribute to anxiety, depression, burnout, brain fog, fatigue, digestive dysfunction, and chronic disease (1, 5, 7, 8).

The human body was not designed to process this much stimulation, urgency, information, artificial light, noise, comparison, and emotional overload 24 hours a day (2, 3).

Healing does not happen easily in constant survival mode.

The nervous system needs:

- safety
- stillness
- sunlight
- sleep
- nourishment
- human connection
- rest
- recovery
- regulation

Recovery is not laziness.

Recovery is a biological requirement.

We do not always need more hustle.

Sometimes we need restoration.

Sometimes, the most productive thing a person can do for their health is slow down long enough for the body to remember it is safe.

This is not a weakness.

This is biology.

## **What Is Overstimulation?**

Overstimulation happens when the brain and nervous system receive more input than they can comfortably process.

Think about trying to drink water from a fire hose.

The brain can begin to feel overloaded in a similar way when too much information, stress, noise, urgency, and stimulation constantly come in without enough time to recover.

This can happen from:

- too much screen time
- loud environments
- chronic stress
- social media
- poor sleep
- multitasking
- emotional stress
- constant notifications
- highly processed foods
- excess caffeine
- lack of quiet time

When this happens over long periods, the body and brain may struggle to recover properly (1, 5).

## **The Body and Brain Need Recovery**

Years ago, people experienced more quiet time and fewer distractions.

Today, many people wake up and immediately check their phones.

The brain keeps receiving stimulation all day long.

Many people rarely experience true rest.

Research shows that the nervous system needs periods of recovery to function properly (1, 5).

Without adequate recovery, the body may remain in a stress response for too long.

The human body was designed to alternate between periods of activity and recovery, much like how muscles need rest after exercise.

Without recovery, performance eventually begins declining.

## **Fight or Flight Mode**

The body has a built-in stress response system called the sympathetic nervous system.

This is often called:  
“fight or flight” (7).

It helps the body react to danger.

When this system activates:

- heart rate increases
- stress hormones rise
- blood pressure may increase
- the body becomes more alert

This response is helpful during emergencies.

But many people now stay in this state of stress too often.

Research suggests that long-term stress activation may negatively affect physical and mental health (1, 7, 8).

Imagine leaving your home alarm system activated all day long, even when there is no emergency.

Eventually, the system may become overly sensitive, exhausted, or dysfunctional.

The nervous system can respond similarly under chronic stress.

## **Overstimulation and a Dysregulated Body**

The human body works best when its systems communicate smoothly and stay balanced.

But overstimulation may disrupt that balance.

Over time, the body may become dysregulated, meaning the normal flow and communication among the brain, nervous system, hormones, gut, metabolism, and immune system may no longer work properly.

This may affect:

- sleep
- mood
- focus
- digestion
- appetite
- blood pressure
- inflammation
- blood sugar regulation
- energy levels
- hormones
- recovery

Many people today are not simply tired.

Their bodies may be chronically overstimulated and dysregulated simultaneously.

## **Social Media, Dopamine, and the Brain**

Social media and technology are designed to keep attention.

Every notification,  
message,  
video,  
and “like” may activate dopamine-related reward pathways in the brain (3).

Dopamine is a neurotransmitter associated with reward, motivation, and pleasure.

The problem is not dopamine itself.

The problem may be too much stimulation too often.

Research suggests that excessive digital stimulation may affect focus, attention span, mood, and sleep quality (3).

Over time, the brain may come to expect constant stimulation.

Quiet activities like reading, resting, or sitting still may suddenly feel boring.

## **Children and Overstimulation**

Children today are growing up with more screens and stimulation than ever before.

Many children spend less time:

- playing outside
- using imagination
- resting quietly
- talking face-to-face

Some experts believe excessive stimulation and screen exposure may affect:

- attention
- mood
- sleep
- behavior
- emotional control (3)

Children's brains need time to rest and develop naturally.

## **Stress, Inflammation, and Health**

Long-term stress and overstimulation may also increase inflammation in the body (1, 7).

Inflammation is linked to many health problems.

These may include:

- obesity
- type 2 diabetes
- high blood pressure
- persistent fatigue
- depression
- heart disease (1, 8)

When the nervous system stays stressed too long, the body may struggle to heal and recover properly.

## **Overstimulation, Heart Rhythm, and Persistent Fatigue**

Many people do not realize that chronic overstimulation may affect both energy levels and the nervous system's control over the heart.

The body depends on a balance between the brain,  
nervous system,  
hormones,  
sleep,  
energy production,  
and recovery.

When the body stays in a constant stress response too long, this balance may become disrupted.

Some people begin experiencing symptoms such as:

- persistent fatigue
- heart palpitations
- anxiety
- dizziness
- rapid heartbeat
- poor sleep
- brain fog
- exhaustion
- feeling “wired but tired”

In some individuals, chronic stress and nervous system dysregulation may trigger or worsen symptoms in people predisposed to rapid heart rhythms, sometimes called supraventricular tachycardias (SVTs).

Stress hormones, sleep deprivation, caffeine, anxiety, and overstimulation may all affect the autonomic nervous system, which helps regulate heart rhythm.

At the same time, many people experiencing chronic overstimulation feel deeply exhausted.

The body may appear awake on the outside while running on stress hormones internally.

This can leave a person feeling tired all day but unable to fully relax or recover.

Research suggests that chronic stress, inflammation, poor sleep, nervous system imbalance, and reduced cellular energy production may all play a role in fatigue and low energy levels (1, 5, 7).

The body was designed to move between periods of stress and recovery.

But many people today rarely experience true recovery.

Eventually, the nervous system, hormones, sleep patterns, and energy systems may begin struggling to keep up.

## **The Gut-Brain Connection**

The gut and brain constantly communicate with each other.

Research has shown that stress and poor nutrition may affect the gut microbiome (4).

The gut helps produce important compounds connected to mood and brain health.

This includes serotonin, which helps support emotional well-being (4).

Poor gut health may also increase feelings of stress and anxiety.

You can think of the gut and brain like two people constantly talking on a phone line.

When communication is disrupted on one end, the other side often feels the effects as well.

## **Neuroplasticity and Nervous System Recovery**

Research shows that the brain can adapt and change throughout life.

This is called neuroplasticity (9).

Newer approaches to nervous system regulation suggest that chronic stress and overstimulation may condition the brain and body to stay stuck in survival mode.

This may affect:

- sleep
- mood
- energy
- inflammation
- digestion
- stress tolerance
- overall health

Practices such as:

- meditation
- breathing exercises
- prayer
- mindfulness
- spending time in nature
- emotional regulation
- nervous system retraining exercises

may help support nervous system recovery and regulation in some individuals.

Programs such as the Dynamic Neural Retraining System (DNRS) are examples of approaches some individuals use to support stress reduction and nervous system regulation. Research in this area is still evolving.

The goal is not simply to “think positively.”

The goal is to help the brain and nervous system feel safe enough to move out of chronic survival mode.

## **Chronic Stimulation and the Human Body**

One concern researchers continue to explore is what happens when biological pathways are chronically stimulated over long periods.

For example, medications known as glucagon-like peptide-1 (GLP-1) receptor agonists, including drugs such as Ozempic and Wegovy, work by stimulating glucagon-like peptide-1 (GLP-1) receptors involved in appetite, blood sugar regulation, and metabolism.

While these medications may benefit some individuals, questions remain about the long-term effects of chronic stimulation of these pathways, especially as their use continues to expand rapidly worldwide (10).

Some researchers and clinicians have raised concerns about:

- muscle loss
- persistent fatigue
- metabolic adaptation
- nutritional deficiencies
- changes in body composition
- aging-related muscle decline

particularly in older adults or those with low muscle mass.

This does not mean these medications are inherently harmful for everyone.

But it does reinforce a larger point:

The human body was designed around balance, rhythm, recovery, and regulation, not around chronic overstimulation or imbalances in biological pathways.

## **Omega-3s, Cell Membrane Fluidity, and Brain Health**

The brain needs healthy fats to work properly (2).

Omega-3 fatty acids are especially important for brain and cellular health.

Many people today have low omega-3 levels and high omega-6 levels.

This imbalance may increase inflammation and affect cell membrane fluidity.

Healthy cell membranes help brain cells communicate more effectively (2, 6).

Think of cell membranes like flexible doors and communication centers for the body.

When membranes become more rigid, communication between cells may become less efficient.

Research suggests that improving omega-3 levels may help support:

- brain health
- mood
- focus
- inflammation balance
- overall wellness (2, 6)

The BalanceTest can help measure omega-6-to-omega-3 ratios and Omega-3 Index levels.

Some individuals choose to support their omega-3 levels with products such as BalanceOil+ (orange-lemon-mint flavor), which also contains polyphenols.

## **Signs You May Be Overstimulated**

People who are overstimulated may experience:

- trouble sleeping
- anxiety
- brain fog
- irritability
- feeling overwhelmed
- difficulty focusing
- persistent fatigue
- emotional exhaustion
- constant phone checking
- feeling “wired but tired”

Some people feel physically exhausted but mentally unable to relax.

## **How to Reduce Overstimulation**

Small changes may help the brain and nervous system recover.

## **1. Reduce Screen Time**

Taking breaks from phones, television, and social media may help reduce mental overload (3).

## **2. Improve Sleep**

Sleep helps the brain and body recover and repair themselves (5).

## **3. Spend Time Outdoors**

Research suggests that time in nature may help calm the nervous system and reduce stress.

## **4. Practice Quiet Time**

Deep breathing, prayer, meditation, and quiet reflection may help reduce stress and improve mental wellness.

## **5. Improve Nutrition**

Eating more whole foods and fewer ultra-processed foods may support better brain and body health (2, 4).

## **6. Support Omega-3 Levels**

Improving omega-3 levels may help support healthy brain function and inflammation balance (2, 6).

## **7. Stop Multitasking Constantly**

Focusing on one thing at a time may reduce mental overload and improve concentration.

## **Important Note**

This article is for educational purposes only and is not intended to diagnose, treat, or replace medical advice. Symptoms such as heart palpitations, severe fatigue, anxiety, chest pain, dizziness, or sleep disturbances should be discussed with a qualified healthcare professional.

## **Final Thoughts**

Overstimulation is becoming a growing health challenge in modern life.

Many people are constantly connected but rarely rested.

The brain and nervous system need time to recover.

Sometimes improving health is not about adding more stimulation.

Sometimes it is about slowing down,  
resting,  
recovering,  
and creating balance again.

Healing does not happen easily in survival mode.

The body needs safety,  
regulation,  
connection,  
recovery,  
and rest.

This is not a weakness.

This is biology.

If this article resonated with you, it may be time to take a closer look at your stress levels, nervous system health, inflammation, sleep, nutrition, and overall wellness.

Sometimes the first step toward better health is simply becoming aware of what may be overstimulating your body and brain.

If you would like help improving your health naturally, reducing inflammation, supporting brain and cellular health, improving your omega-6 to omega-3 balance, or learning more about the Diet Free Life approach, contact the person who shared this article, email me directly at [robert@dietfreelife.com](mailto:robert@dietfreelife.com), or schedule a FREE consultation at: <https://calendly.com/dietfreelife/free-consultation>

Together, we can help you create a healthier, more balanced lifestyle from the inside out.

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## About the Author

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