

Free Webinar

The Polyvagal Theory and Stress

With: Laurie Bedard

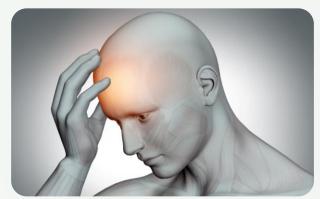
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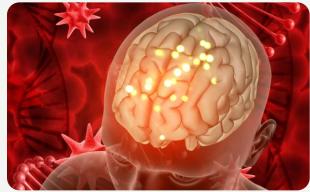
Applying the Polyvagal Theory to Daily Stress Management



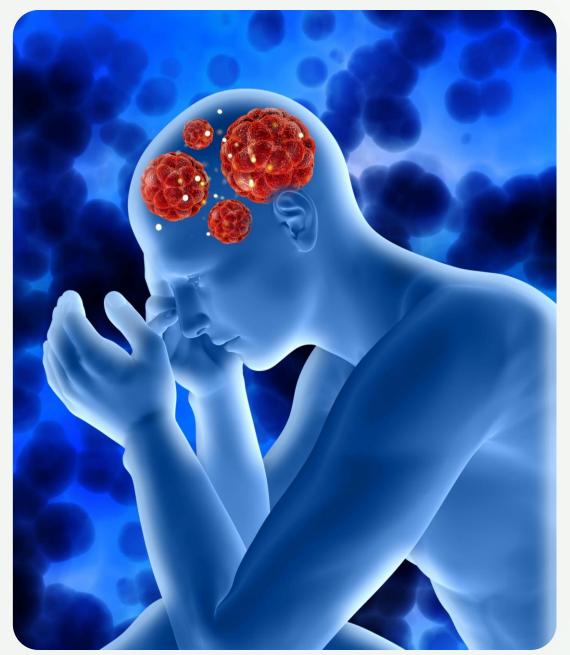


The Polyvagal Theory and Stress





Applying the Polyvagal Theory to Daily Stress Management



Introduction to Dr. Stephen Porges and the Development of the Polyvagal Theory

Introduction

Dr. Stephen Porges is a distinguished neuroscientist and the creator of the polyvagal theory.

His groundbreaking work has transformed our understanding of how the nervous system regulates stress and social behavior.

Pioneering research on the autonomic nervous system, which began in the neonatal intensive care units (NICUs). In the 1970s.



Looking out how to improve rate of survival.

Preterm infants have maturational delays in neurobehavioral systems

facilitating early nurturing interactions and emotional connection between preterm infants and their mothers is a practicable and effective means of optimizing postnatal development in preterm infants







The polyvagal theory was developed in the 1990s.



What is The Polyvagal Theory?

Theory suggesting that the vagus nerve plays a significant role in regulating our physiological states.

How Can it Help Us Understand and Manage our Stress?

By understanding that the vagus nerve and its 3 distinct neural circuits work to influence stress responses and social behaviors.

Social Engagement System

signaling for emotion, motion, communication Parasympathetic Ventral Vagal Complex

Aggressive Defensive System mobilization for fight or flight Sympathetic Nervous System

Passive Protection System
immobilization for freeze or feint
Parasympathetic Dorsal Vagal Complex

SAFE

optimal relaxation & activation (rest, digest, relate) eye contact, facial expression, voice

DANGER

† arousal, † heart rate, stress, muscle tension fear, anger, aggression, rage

LIFE THREAT

↓ arousal, frozen activation, ↓ heart rate, dissociated, frozen, collapsed, limp

Poly Vagal Theory

by Stephen Porges PhD



Overview of the Autonomic Nervous System (ANS)

Autonomic Nervous System (ANS)

The ANS is a control system that acts largely unconsciously to regulate bodily functions such as heart rate, digestion, respiratory rate, and pupillary response.

It consists of two main branches: Sympathetic Nervous System and Parasympathetic Nervous System

Role of the Vagus Nerve



The Vagus nerve is the longest cranial nerve, extending from the brainstem to the abdomen.



It is a key component of the parasympathetic nervous system.

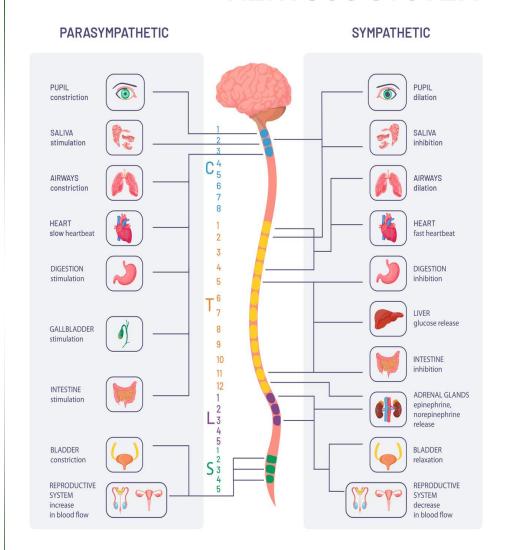


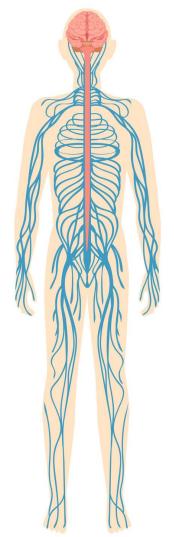
Responsible for regulating internal organ functions, such as digestion, heart rate, and respiratory rate.



Plays a crucial role in promoting a state of calm and relaxation.

NERVOUS SYSTEM



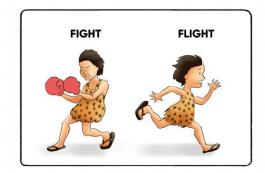




Understanding the Sympathetic and Parasympathetic Nervous Systems (of the ANS)

Sympathetic Nervous System

- Often referred to as the "fight or flight" system.
- Prepares the body to respond to perceived threats by increasing heart rate, diverting blood to muscles, and releasing adrenaline.



QUICK POLL

How often do you find yourself in 'fight or flight' mode during a typical week? (Daily, Weekly, Rarely)

Parasympathetic Nervous System

- Known as the "rest and digest" system.
- Promotes relaxation, reduces heart rate, and aids in digestion and recovery processes.





Evolutionary Timeline of The Vagus Nerve

POLYVAGAL THEORY

EVOLUTIONARY MODEL OF THE AUTONOMIC NERVOUS SYSTEM

VENTRAL VAGAL

SOCIAL ENGAGEMENT SYSTEM

Social bonding, feelings of harmonious connection with others and environment, feeling safe in body, joy, peace, mindful, open and curious to present moment

SYMPATHETIC

MOBILISATION SYSTEM

Fight and flight, freeze - responses to danger: emotions of rage, anger, irritation, frustration, fear, terror, panic, restless, anxious and worried

DORSAL VAGAL

IMMOBILISATION SYSTEM

Fainting, freeze, shutdown, dissociation, surrendering into death, energy conserved for vital organs

> NEWEST SYSTEM 200 MILLION YEARS AGO

400 MILLION YEARS AGO

OLDEST SYSTEM 500 YEARS AGO

Myelinated Vagus (Ventral Vagal Complex) - Approximately 200 million years ago

- Recent development found in mammals
- Associated with social engagement and emotional regulation
- Facilitates facial expressions, vocalizations, and other social behaviors
- Promotes feelings of safety and calm, enhancing social bonds and complex social behaviors

Sympathetic Nervous System - Approximately 400 million years ago

- Development introduced the 'fight or flight' response
- Prepares the body to respond to threats
- Increases heart rate, diverts blood to muscles, and releases adrenaline
- Represents adaptive evolutionary advancement for dynamic responses to danger

Primitive Unmyelinated Vagus (Dorsal Vagal Complex)

- Approximately 500 million years ago
- Earliest development of the vagus nerve
- Responsible for the 'shutdown' response in extreme stress
- Seen in primitive vertebrates like reptiles
- Engages in immobilization or "freeze" responses as a survival mechanism



VENTRAL VAGAL COMPLEX:

The Social Engagement System

The ventral vagal complex is a part of the parasympathetic nervous system.

It is crucial for social engagement and emotional regulation.

Functions



Social Connection

Facilitates facial expressions, vocalizations, and other social behaviors.

Helps in forming bonds and maintaining relationships.



Emotional Regulation

Promotes feelings of safety and calm.

Reduces stress and anxiety by encouraging social interactions and supportive behaviors.





Shutdown Mode During High Stress

The dorsal vagal complex is also part of the parasympathetic nervous system.

It is associated with "shutdown" responses during extreme stress or perceived life-threatening situations.

Functions



Protective Mechanism

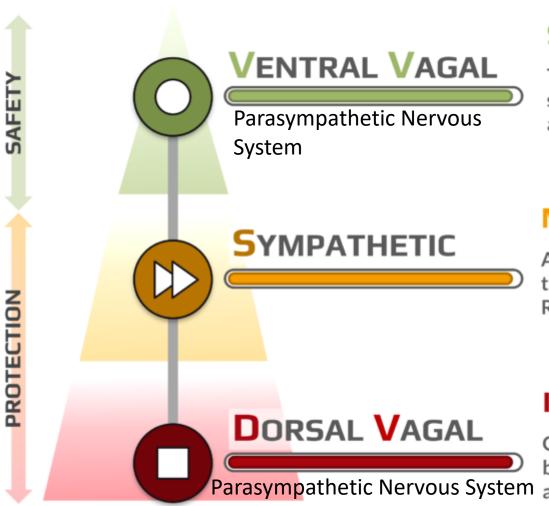
Engages when the body perceives an overwhelming threat.

Causes a state of immobilization or "freeze" response.





AUTONOMIC HIERARCHY



SOCIAL ENGAGEMENT

Talking, communicating, engaging, self-regulating, self-soothing and calming to inhibit sympathetic and adrenal influence

MOBILIZATION

Actively fight against stress by mobilizing the sympathetic system.
Run, fight, get active and inhibit digestive functions

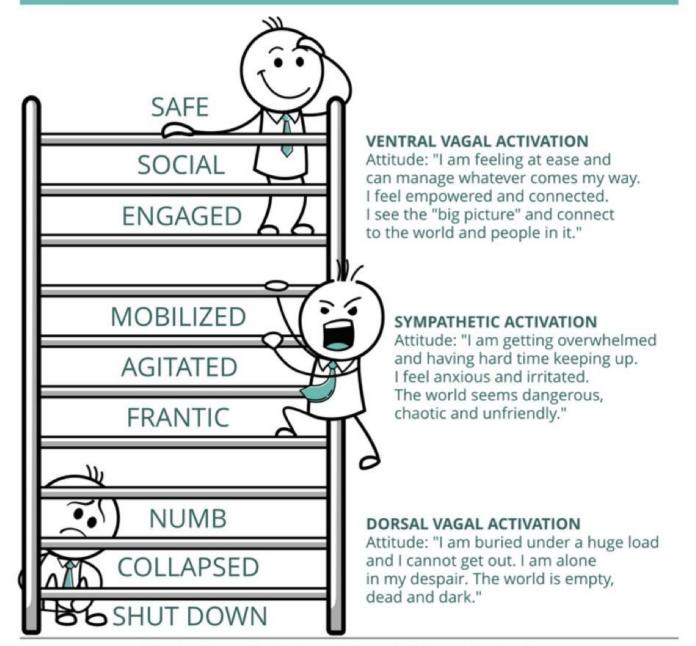
IMMOBILIZATION

Cut yourself off from stress by inhibiting bodily functions. Dissociation, collapse, avoidance and passivity.

From Eric Marlien, Le système nerveux autonome de la théorie polyvagale ou développement psychosomatique

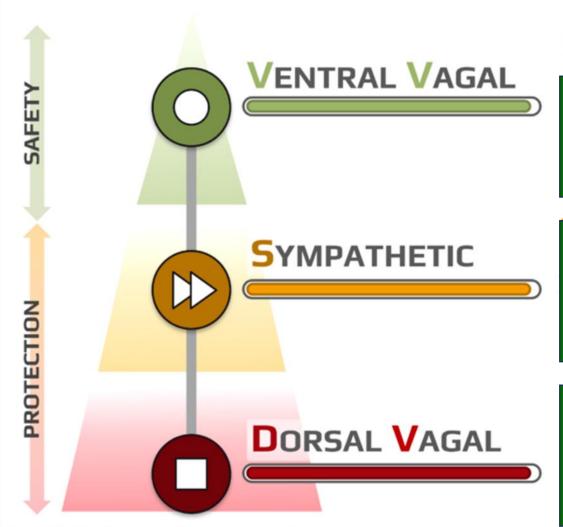


AUTONOMIC NERVOUS SYSTEM AS A LADDER





AUTONOMIC HIERARCHY



From Eric Marlien, Le système nerveux autonome de la théorie polyvagale ou développement psychosomatique

SOCIAL ENGAGEMENT

- First coffee of the morning
- Watching my Frenchies play
- The Ocean
- My Low Fi Chill Playlist
- Arguing with my partner
- Walking alone at night
- A micromanaging boss
- Unexpected loud noises
- Thinking about childhood trauma
- Unresolved conflict with partner
- Grief
- Being bullied at work



Scenario-Based Case Studies:

Stress Responses in Different Contexts

Case Study 1

Confronting a Sudden Threat

Scenario:

Sara encounters a barking dog while jogging, triggering a fear response.

Response:

Dorsal vagal activation: Freeze response, feeling of numbness, and slowed heart rate.

Outcome:

Sara practices grounding techniques, such as feeling her feet on the ground and taking slow, deep breaths, to move out of the freeze response. Case Study 2

Traffic Jam Frustration

Scenario:

Gisele gets stuck in a traffic jam on her way to an important meeting. She had an argument with her 20 year old daughter on her before she left for work as well

Response:

Sympathetic activation: Muscle tension, irritability, and racing thoughts.

Outcome:

Gisele uses a quick mindfulness technique, focusing on her breathing and relaxing her muscles, reducing her stress and helping her think clearly.



Real-Life Case Studies:

Stress Responses in Everyday Life

Case Study 1

Presentation Stress

Scenario:

Shea, feels extreme stress before making a presentation to her team.

Response:

Sympathetic activation: Restlessness, rapid heartbeat, and difficulty concentrating.

Outcome:

Shea uses visualization techniques to imagine a calm environment, which helps activate the parasympathetic system and improve focus.

Sources

Case Study 2

Chronic Stress and Health

Scenario:

Alex faces prolonged work stress, affecting their health.

Response:

Chronic sympathetic activation: Persistent high blood pressure, digestive issues, and fatigue – leading to dorsal vagal activation and shut.

Outcome:

Alex incorporates daily mindfulness practices and regular physical activity to enhance vagal tone and manage stress better – they also seek support with friends and family and if need be professionals.



Breathing Exercises

to Enhance Vagal Tone

Breathing exercises can activate the parasympathetic nervous system and improve vagal tone.

Diaphragmatic Breathing

Also known as belly breathing, it involves deep breaths that fully engage the diaphragm.

Steps

- Sit/lie comfortably
- Hand on chest and belly
- Inhale through nose (belly rises)
- Exhale through mouth

Practice

5-10 minutes daily

Box Breathing

A technique used by Navy SEALs to stay calm and focused.

Steps

- Inhale through nose (4 sec)
- Hold (4 sec)
- Exhale through mouth (4 sec)
- Hold (4 sec)

Repeat

4-5 cycles

4-7-8 Breathing

A method to quickly reduce anxiety and induce sleep.

Steps

- Inhale through nose (4 sec)
- Hold (7 sec)
- Exhale through mouth (8 sec)

Repeat

4-5 cycles

Activity!

Let's all try a quick session of box breathing together.



The person you are trying to reach is practice their breathing techniques and are not available to respond to your requests as the moment. Please try again in 15 minutes.





Mindfulness Techniques

to Stimulate the Parasympathetic Response



Body Scan

- Focus on different body parts from head to toe.
- Notice sensations without judgment.

Guided Imagery

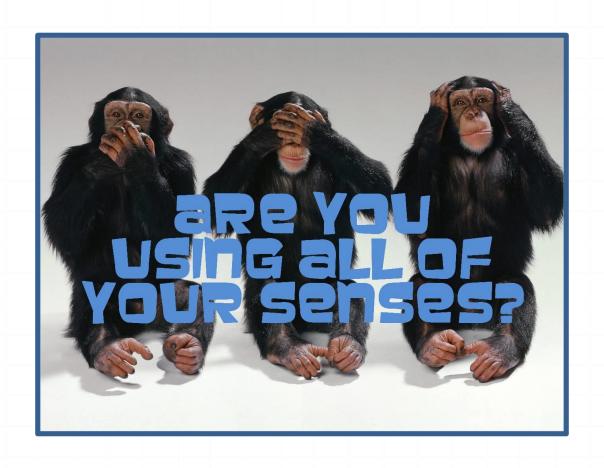
- Visualize a peaceful scene (e.g., beach, forest).
- Engage all senses in the visualization.

Mindful Breathing

- Focus on the breath.
- Notice the rhythm and sensation of each inhale and exhale.



The Calm Place – Guided Imagery





to Stimulate the Parasympathetic Response

Progressive Muscle Relaxation

- Tense and relax muscle groups
- · Move from feet to head



Guided Meditation

 conducted with a guide or instructor who leads the practitioner through a series of instructions designed to relax the body and mind

Yoga

- Gentle poses to reduce tension
- Focus on breath and movement

Reflect:

• How do you currently manage stress in your daily life? Share one technique that works well for you.





Incorporating Polyvagal Theory into Daily Life

- O1 Social Engagement:
 Connect with friends/family and participate in community activities.
- Physical Activity:
 Engage in regular exercise and incorporate activities like yoga or tai chi.
- Mindfulness:
 Practice daily meditation or mindful breathing.



Emotional Regulation through Polyvagal Theory

Self-Compassion

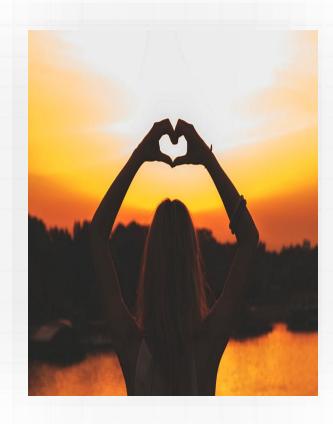
- Be kind to yourself during stressful times.
- Practice positive self-talk.

Grounding Exercises

• Use senses to stay present (e.g., notice five things you can see, four things you can touch).

Routine

 Establish a consistent daily routine by including relaxation and social time.



Take a moment to reflect on what we've covered.

What's one new thing you've learned?



Recap: Polyvagal Theory & Stress Management

Key Points: Polyvagal Theory

- Developed by Dr. Stephen Porges.
- Explains the role of the vagus nerve in stress responses.

Nervous System States

- Sympathetic (fight or flight) and parasympathetic (rest and digest).
- Ventral vagal (social engagement) and dorsal vagal (shutdown).

Stress Management Techniques

Breathing exercises, mindfulness, social engagement, physical activity.



Keep Practicing and Learning Resources

Here are just some of the topics that will be covered at LJB Stress Management Academy

		Understanding Your Nervous	Stress Management Practices and	
		System Webinars	Exercises	Spiritual Practices to Manage Stress
		Demystifying Stress: How Your Body	Breathe Easy: Mastering Deep	Meditation Basics: Finding Peace in
	1	Reacts	Breathing for Calm	Silence
		Fight or Flight: Managing Immediate	Ease Your Muscles: Progressive	Yoga for You: Stress Relief Through
	2	Stress Responses	Relaxation for Everyday Relief	Gentle Movement
		Safe and Sound: Understanding	Endorphin Boost: Simple Exercises	Visualize Calm: Guided Imagery for
	3	Polyvagal Theory	to Lift Your Mood	Inner Peace
		Balancing Chemicals:	Mind Over Matter: Mindfulness for	Praying Peacefully: Integrating
	4	Neurotransmitters in Stress	Daily Calm	Prayer into Stress Management
		Brain Health: Effects of Long-Term	Think Through It: Cognitive	Balance Your Chakras: Spiritual
	5	Stress	Strategies to Handle Stress	Practices for Alignment
_		Stress Responses: Learning Healthy	Mastering Moments: Time	Faith in Stress Reduction: Exploring
	6	Reactions	Management to Avoid Overwhelm	Spiritual Resilience
		Rewire Your Response: Leveraging	Learning Your Body Signals: Intro to	Chanting for Calm: Using Mantras to
	7	Neuroplasticity	Biofeedback	Soothe the Spirit
		Reading Your Body's Signals:	Reflect and Release: The Power of	Healing Energies: Exploring Reiki
	8	Practical Tips	Stress-Relieving Journaling	and Stress Reduction
			Create to Cope: Using Art as a Stress	Walking Meditation: Combining
	9	The Relaxation Effect: Why It Works	Reliever	Movement with Mindfulness
-		Building Resilience: Understanding	Stretch and Soothe: Gentle Routines	Gratitude Practices: Enhancing Life's
	10	and Using Your Inner Strength	for Daily Practice	Joys to Combat Stress



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Contact Information: "Questions? Ready to join? Contact us at:

https://www.ljb-stressmanagement.com/contact/





Q&A

Feel free to email any questions you may have!

admin@ljb-stressmanagement.com



Thank You!