

### Handout For Training Call #5

ANS AND SELF-REGULATION REVIEW, & THE TWO "CEPTIONS"

### Review/Watch

Biology of Stress Video #3: Vagus Nerve 101.

# Recap of Nervous System

**TWO** main nervous systems in vertebrates.

- 1) **CENTRAL** nervous system
  - > Central nervous system is the **<u>BRAIN</u>** and <u>**SPINAL CORD**</u>.
- 2) **PERIPHERAL** nervous system
  - > Peripheral nervous system is the a) AUTONOMIC nervous

system and the b) **SOMATIC** nervous system.

Between all of these nervous system branches are pathways (sensory & motor) that **<u>COMMUNICATE</u>** signals (sensations; stimuli; hormones; etc.) for human function (metabolism; homeostasis, etc.), action (movements) and survival (fight, flight, freeze).

## ANS Has Two Main Branches (Plus its Sub-Branches)

- Sympathetic Nervous System (SNS), which is our **<u>FIGHT</u>** and **<u>FLIGHT</u>** survival system.
- Parasympathetic Nervous System (PNS) which is our **<u>SLOWING DOWN</u>** survival system.
- Then, the PNS is broken into two more branches:
  - Speedy, primitive, unrefined (unmyelinated) <u>SHUTDOWN</u> nervous system (Dorsal Vagal Complex of the PNS).
  - Steady, refined (myelinated), more evolved <u>CALMING DOWN</u> nervous system (Ventral Vagal Complex of the PNS).

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### Here's Where it Gets More Complicated 🙂

Dorsal Vagal Complex of the PNS (the clumsy & unrefined portion of the dorsal (shutdown) has **<u>TWO</u>** main modes it operates in:

LOW Tone Dorsal.

HIGH Tone Dorsal.

Low tone is the true **<u>REST-DIGEST</u>** parasympathetic nervous system and is responsible for **<u>RECOVERY</u>** and **<u>HEALING</u>** of the body's many organs and organ systems:

- Supports **<u>TISSUE</u>** Repair.
- **IMMUNE** System Response.
- Barrier Keeping of The **<u>GUT</u>**.
- **<u>CELL</u>** Repair and Regeneration.

For healing, health and our smarts to be restored, we want all **<u>THREE</u>** branches to be in sync with each other.

## The Two "Ceptions"

THE FIRST "CEPTION"

INTERO - ception

### THE SECOND "CEPTION"

**NEURO** - ception

Story time from 'Nurturing Resilience' Kain and Terrell (2018). Chapter 2, Knowing When We Are Safe.

A 12-WEEK Nervous System REWIRE

# SMARTWUD SWAKTBODA

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# (Remember) Primary Wiring

The ventral vagal branch (the social engagement portion of our ANS) is not fully **<u>REFINED</u>** (nor mature) when we are born.

- We have to **LEARN** how to use it.
- The refinement and **WIRING** must be built up

(via social engagement from another, more mature, human).

• If the wiring was not optimal early in life, we need to **BUILD** the foundations and **TEACH** the body what self-regulation and co-regulation is.

### Notes on Co and Self-Regulation

- This primary wiring is how we learn to **<u>SELF</u> <u><b>REGULATE**</u>.
- Interestingly, we learn self-regulation *via* **<u>CO</u>** regulation.

# For Example:

- 1. Baby **<u>DOES</u> NOT** have self-regulation when born.
- 2. She **LEARNS** how to self-regulate by co-regulating with mom, or dad, or caretaker.

(This is just one of the hallmarks to healthy attunement between infant and adult: having connection with a more mature - and regulated - nervous system so the infant gets those primary wirings that start to form a self-regulating and more emotionally intelligent human being.)

3. She learns how to self-regulate based on how she is taught in the co-regulation **'DANCE.'** She is 'borrowing' her caretaker's ventral vagal parasympathetic nervous system.)



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### Three stories to share - Teddy, Ryan, & Rome

All have been shared previously on my YouTube channel, but they are worth mentioning for this training call.

- THE STORY OF TEDDY (HOW EARLY TRAUMA IMPACTS ALL OF US) NOVEMBER 24, 2018 https://youtu.be/dNts7T8\_Vig
- THE STORY OF RYAN (WHY SECURE ATTACHMENT IS ESSENTIAL) NOVEMBER 28, 2018 https://youtu.be/3WI3aUfsNxM
- HOW TO TAME A TANTRUM JANUARY 27, 2019 https://youtu.be/4EofdGeOUAo

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