

Understanding neurobiology can bring comfort and understanding. It explains what is going on in our nervous system, <u>underlining that biology is creating responses</u>, <u>not coping or strength.</u>

copyright 2021

Stress, Trauma and Grief all Affect Nervous System Functioning

<u>Stress</u> is physical, chemical and/or emotional factor that causes strain and tension. It is your body's response to anything that requires attention and/or action.

<u>Trauma</u> is the response of a deeply distressing event that overwhelms the capacity to cope, causing feelings of helplessness, diminishes sense of self and the ability to feel the full range of emotions.

<u>Grief</u> a strong, natural reaction, caused by loss or significant change.

rubyjowalker.com copyright 2021 rubyjowalker.com

Traumatic loss:

- untimely or unexpected
- violence occurred—or the loss survivor witnessed violence
- part of the loss was perpetration and intent to harm
- believing the loved one suffered or that the death was preventable
- multiple deaths
- one's own life was threatened

copyright 2021

rubyjowalker.com

Grief is a natural response to loss. Not all losses create trauma symptoms, but they generally disrupt neurophysiology.

copyright 2021 rubyjowalker.com

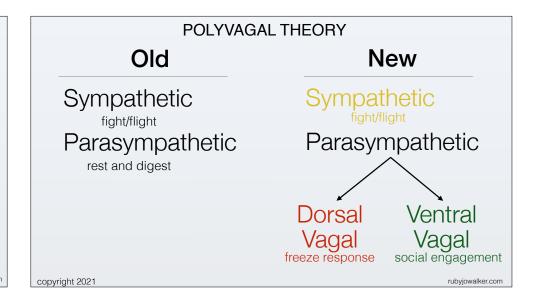
Loss is a threat for our nervous system.

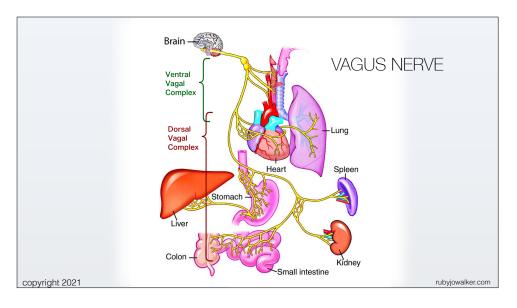


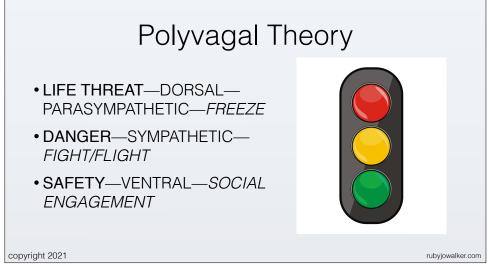
copyright 2021 rubyjow

Polyvagal Theory—Dr. Steven Porges

- Evolution is the organizing principle of PV theory to understand social behavior of mammals.
- The three phylogenetically-ordered hierarchical systems are ways mammals respond to <u>safety</u>, <u>danger</u> and <u>life threat</u>.
- Neuroception (evaluative body process) of <u>safety</u>, <u>danger</u> or <u>life threat</u> will trigger these adaptive neural circuits.



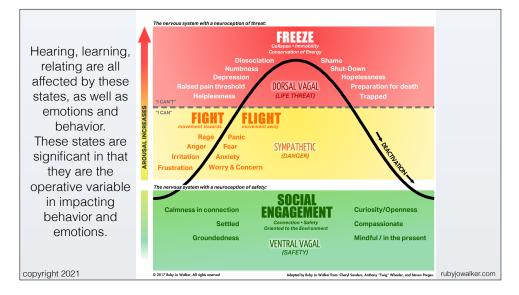




NEUROCEPTION: OUR DETECTION OF SAFETY

- It is not a cognitive process.
- It detects risk in others or the environment *without* awareness of us assessing it.
- It can promote defensive strategies of mobilization (fight/flight) or immobilization (shut down, dissociation).
- Early childhood trauma can make these states more automatic and long-lasting.
- Even if we are not cognitively aware of our neuroception, we always are affected by our body's response it.

copyright 2021 rubyjowalker.com



Dorsal Vagal Complex (DVC)

DVC includes:

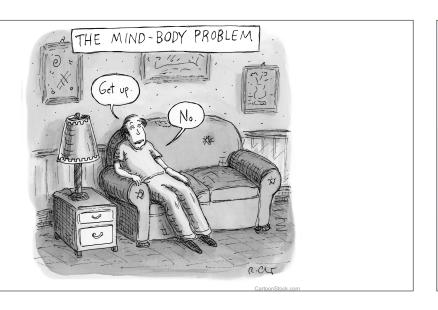
- below the heart and into the gut, the subdiaphragmatic organs
- this is the most ancient system, also found in other species, connected to the "freeze" response.

The Dorsal Vagal Complex is a deep conservation state.

Freeze (Dorsal Vagal Complex) Behaviors

- More on the depressed side
- Lethargy and tiredness—less active
- Hard to feel motivated/procrastination
- Having a "resigned" reaction to situations
- Hard to interact with others as it is too exhausting
- More memory issues
- Overwhelmed regularly

copyright 2021 rubyjowalker.com copyright 2021 copyright 2021 rubyjowalker.com



Sympathetic Branch of ANS

Sympathetic ANS includes:

- all the organs and musculature that are connected to effort and doing, preparing and mobilizing for action.
- Fight/Flight

The sympathetic system is a mobilization and action state.

copyright 2021 rubyjowalker.com

Fight or Flight (Sympathetic NS) Behaviors

- More anxious or frustrated most of the time
- Overreacting to situations
- · Getting angry and irritated easily
- Not feeling like one can rest
- More judgmental towards self and others
- Feeling like one wants to just get away
- Having more addictive behavior

Most people have some freeze in the early adaptation of grief. Sometimes people see this as denial—it is more that the loss is simply too much to take in and integrate.

copyright 2021 rubyjowalker.com

copyright 2021

yjowalker.com

This means that as people work through more grief, their symptoms may look worse as they move from freeze to fight/flight.

copyright 2021

rubyjowalker.com



Ventral Vagal Complex (VVC)

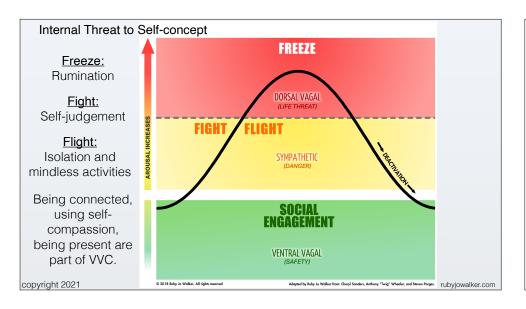
VVC includes:

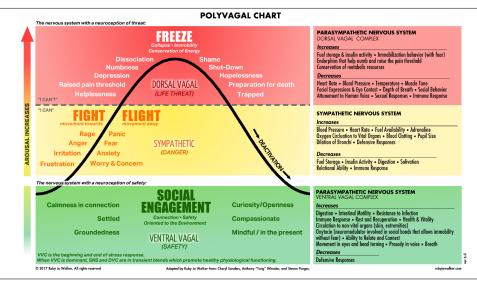
- above the heart
- facial muscles
- striated muscles in the neck
- middle ear, eyes, mouth
- larynx/pharynx

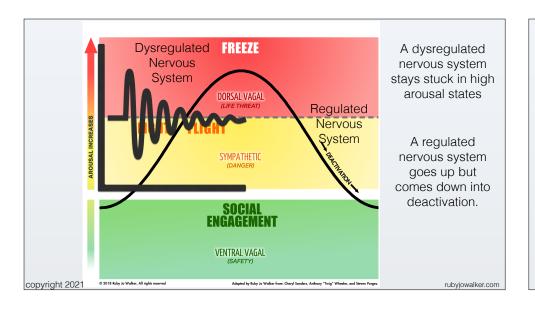
The ventral vagal complex is the social engagement system.

copyright 2021 rubyjowalker.com

Paralyzed, shut down, **IN GRIEF** disengaged, depressed, "it is FREEZE no big deal," ruminating, rationalizing, only thinking positively/spiritually, going through the motions—but actually disembodied. All of this is disconnection of **FIGHT** experience—shut down. **SOCIAL** ENGAGEMENT VENTRAL VAGAL copyright 2021







In a regulated nervous system,

we change our response based on the situation.

We have a range of responses and choices.

copyright 2021

In a dysregulated nervous system, responses are based more on internal cues of the body (ANS), rather than responding to the current situation.

Trauma and stress are accumulative for the autonomic nervous system.

copyright 2021 rubyjowalker.com

losses during grief.

copyright 2021

The physiological disruption can add to the



copyright 2021

rubyjowalker.com

What does all of this mean for getting through grief?



copyright 2021 rubyjowalker.com

Strengthening capacity—one's ability to hold one's own emotional process—supports getting through grief with more ease, even though it is not easy.

copyright 2021 rubyjowalker.com

To expand capacity in getting through trauma or loss, it helps to be working with resiliency practices. Resiliency is the capacity to recover quickly from difficulties. This state must be cultivated for us to expand and get through situations with more more ease and is part of capacity-building.

copyright 2021



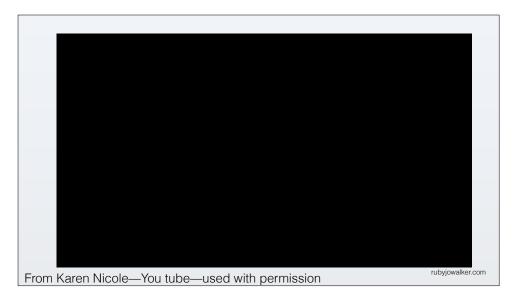
practices do not take away our grief, as there are no short-cuts with the grief process. But they can make it feel more supported as we strengthen our capacity to hold the grief.

Capacity-building and resiliency

Building capacity during grief often needs to be intentional and deliberate.

copyright 2021 rubyjowalker.com





"Our soul and our psyche know how to do grief. We don't need to learn it. It is not a technique. What we need to learn is not to avoid it." —David Kessler

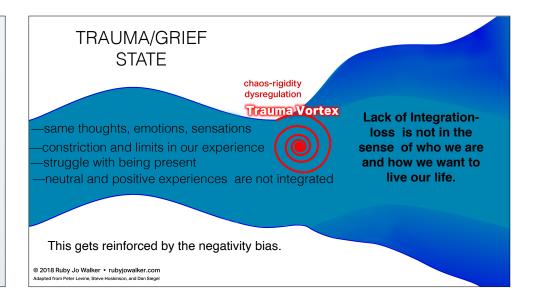
There is generally going to be a heaviness, a hollowness, or an emptiness when we have loss—and feeling sadness. It is part of the the grief process—as there is a void created by loss. This is part of being present to loss.

copyright 2021 rubyjowalker.com

In grief, we are trying to integrate—<u>life</u> without this being we lost and who we are without the person's physical presence (or whatever we lost). This is integration. Feeling the void of the loss is a necessary part of integration.

copyright 2021 rubyjowalker.com

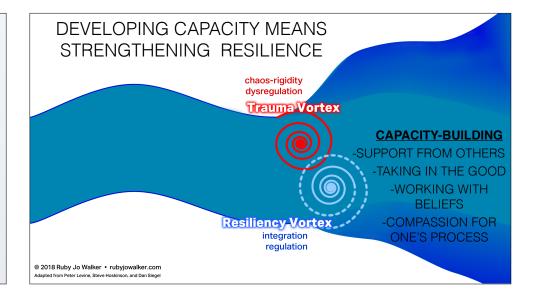
Integration means we are able to be regulated and connected to others and ourselves. Our loss can be part of who we are in integration.



Affect of the Negativity Bias

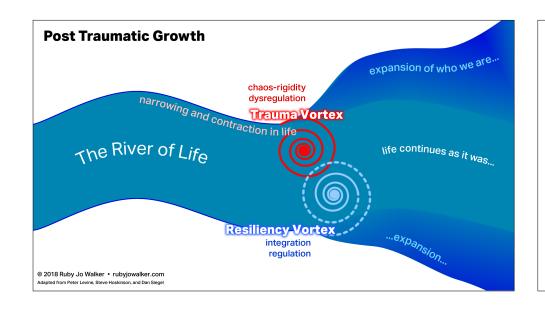
- In "what-is-wrong" thinking
- Over-focus on the negative
- Remember the negative more
- Do not see the big picture because of this bias

copyright 2021 rubyjowalker.com



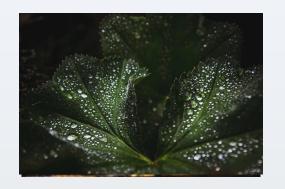
Integration of more capacity on the body level can help us hold the grief and assist with mediating complex grief. Post-traumatic growth often comes when people use the loss to expand their sense of themselves and work on core beliefs, connection to others and/or their spirituality, as well as finding meaning.

copyright 2021 rubyjowalker.com





We all need to learn to "take in the good" for our own capacity-building.



"Taking in the good" can be awe, gratitude, general human kindnesses, or even every day positive experiences.

"Taking in the good" is a Rick Hanson term.

copyright 2021 rubyjowalker.com

Ratios of Positive emotions to Negative emotions

- Flourishing—must be 3,4,5 to 1
- Feeling stuck—is 2 to 1
- Depressed—less than 1 to 1

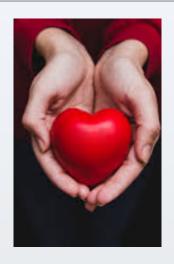
Regret, and even shame and guilt can be remedied by self-compassion.

copyright 2021

rubyjowalker.com

What is self-compassion?

It is extending compassion to oneself in instances of perceived inadequacy, failure or general suffering.



Self-Compassion reduces anxiety and depression—and it is linked to resiliency.

rubyjowalker.com

copyright 2019

copyright 2019

Self-Compassion Resources:

- Dr. Kristen Neff selfcompassion.org
- Dr. Chris Germer chrisgermer.com
- Dr. Rick Hanson—rickhanson.net
- Tara Brach—Radical Acceptance
- Insight Timer—Free app with selfcompassion meditation



copyright 2019

rubyjowalker.com



Feeling safe, satisfied and connected supports resilience.

-Rick Hanson

"Humans need another appropriate mammal to regulate with"...to have their nervous system function best.

---Dr. Steven Porges

copyright 2021 rubyjowalker.com

copyright 2021

We biologically cry out for regulation—we want joining with our nervous system for soothing, attunement, and real presence. Without the regulation of another, we stay in a state of defense.

copyright 2021

rubyjowalker.com

copyright 2021

We are born with a need to be co-regulated with a caregiver and then, we learn to self-regulate.



rubyjowalker.con



Dr. Alan Shore: "The therapeutic alliance is not about the words that are said, but it is what is beneath the words." This means the body-based experience of the emotions, which is beneath the surface.

Presence is holding someone's wholeness, essential goodness, inner wisdom and knowing while offering loving- kindness.

Presence includes resonance: psychobiological attunement—being on the same wavelength.

copyright 2021 rubyjowalker.com

copyright 2021

The biology of presence is the state we are in of the Ventral Vagal Complex (VVC).

What do you say when you bump into someone's defenses? "Excuse me." Unknown Author

copyright 2021 rubyjowalker.com

copyright 2021

rubyjowalker.com

"Kind eyes" promotes safety.























Our ability to offer presence is one of our biggest offerings—not only to signal safety to another nervous system, but it helps to regulate the physiology of both parties.

Attunement is focusing our attention on the experience of another. Resonance is an interactive experience where the other feels felt, an outcome of psychobiological attunement.

copyright 2021 rubyjowalker.com copyright 2021

rubyjowalker.com

How to Attune:

- Get present and regulated in whatever way you can.
- Offer understanding with the presence, a sense of "getting it," a sense of being with the person as they talk or express.
- Track the person to see if they feel met by what is said—by watching language, emotions, and the body.
- Check in and "course correct" if you are off track, and do not take it personally.

The misattunement like "time will take care of this pain" or "it is God's will" just elicits more threat activation in our nervous system. We feel someone is "not with us" in a way that keeps us in threat.

copyright 2021 rubyjowalker.com

We know that learning to have support assists in the grief process and supports building capacity.

Feeling this sense of support in the body also deepens our ability to integrate support

copyright 2021



rubyjowalker.com

Attachment patterning can affect how grief affects people as it affects the ability to be regulated by support. This is also simply biological adaptation.

copyright 2021 rubyjowalker.com

"Attachment is a deep and enduring emotional bond that connects one person to another across time and space."

-Ainsworth, 1973, Bowlby 1969

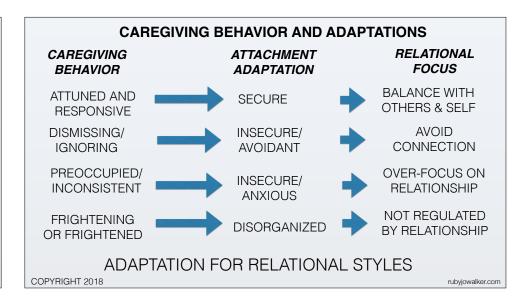
We are born with a need to be co-regulated with a caregiver and then, we learn to self-regulate.

copyright 2020 rubyjowalker.com

Attachment is part of our <u>adaptation</u> strategy as it is formed from the relationships of caregivers. In secure attachment, caregivers **amplify** the positive emotional states and **modulate** the negative ones.

copyright 2019

rubyjowalker.com





Impact of Attachment Insecurity Adaptations

- Not being able to let others in for support with a tendency to "go it alone" (AVOIDANT)
- Not fully taking in support when it is available (ANXIOUS)
- Deeper dysregulation in the ANS that presupposes people to more distress psychobiologically (ALL ATTACHMENT ADAPTATIONS)

copyright 2021

SUPPORTING DIFFERENT ATTACHMENT ADAPTATIONS

<u>Avoidant Adaptation</u>—Look away some as less eye contact is safer. Keep face warm and kind, do not be too intrusive as they can feel smothered easily, but show you are working as an ally. Go slowly.

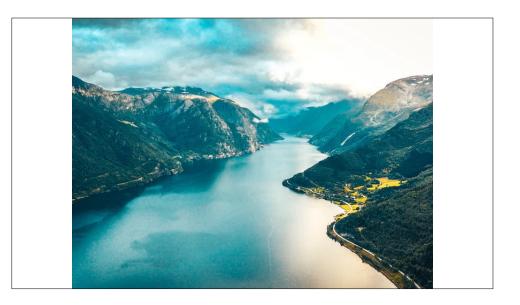
Anxious Adaptation—Keep connection in the session. Show you are with them reliably and try to be consistent. Have them actually embody you being with them on the journey if possible as it is hard for them to integrate the help they get.

copyright 2021 rubyjowalker.com



rubyjowalker.com

The good news is we can all move to "earned secure attachment."



copyright 2021 rubyjow

Grief feeling stuck often means we have a faulty belief that got "turned on" from early childhood. This impedes integration.

copyright 2021 rubyjowalker.com

General core beliefs tend to be connected to safety, needs/support, sense of power, authenticity, freedom to be ourselves and feeling a sense of value.

In grief and loss, a sense of over-responsibility ("it is my fault") ("I did not do enough"), deservingness and punishment often come up.

We often get "stuck" in grief if a core belief is activated.

copyright 2021 rubyjowalker.com

Whenever we have a belief, we look for it to be true. This is the brain trying to make patterns as it tries to be more efficient.



Self-compassion is important when a core belief is triggered as it can bring more softening to the grief process.

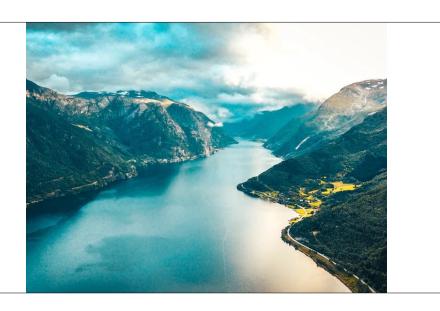
copyright 2021 rubyjowalker.com



Positive states installed in the body strengthen neural pathways and support capacity.

How to strengthen states in the body somatically:

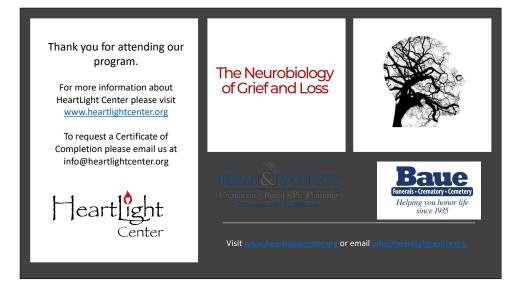
- 1) Get permission to move to the body: "Is it ok to slow this down and notice your experience more? "This feels important and I would like to really pay attention to this—can we do this now?"
- 2) Embody the experience: "When you say that, what do you notice in your body?" or "What is happening in your body when you bring up this up?" "How is your body right now as you mention this?"
- 3) Fill out the experience: "Do you get a particular image or color as you say this?" "What happens when you pay attention to this?" "What else do you notice in your body?"
- 4) If it is positive, strengthen the state: "Let's stay with this if that is ok." "Is it ok to hang out here more?" "Can you just notice this more?"
- 5) Have client feel whole self after this: "What are things like for you now?" "How are you doing now after slowing down and experiencing this?"



Summary

- Understanding the biology of grief responses can help reduce shame and judgement.
- •There is no short cut to grief, but we can build capacity to support the grief process.
- Increased capacity is supported by assisting clients in taking in goodness in life, taking in support from others, and developing self-compassion.
- Both core beliefs and attachment adaptations can affect the grief process and integration. Working with them can support the journey of grief.

copyright 2021 rubyjowalker.com



BIBLIOGRAPHY

Foundations of Well-Being Program, Dr. Rick Hanson

Mindsight Institute, Dr. Dan Siegel, MD

Hakomi Training Institute, Ron Kurtz, Founder

National Institute for the Clinical Application of Behavioral Medicine Programs

Polyvagal Theory Resources, Dr. Steve Porges, PhD

Organic Intellingence Training, Steve Hoskinson

Somatic Experiencing Training, Dr. Peter Levine, PhD

The Trauma Spectrum, Dr. Robert Scaer, MD

BIBLIOGRAPHY CONTINUED:

The Body Holds the Score, Dr. Bessel Van der Kolk, MD

The Telomere Effect, Dr. Elizabeth Blackburn, & Dr. Elissa Epel

Twig Wheeler, <u>liberationispossible.com</u>

<u>The Neuroscience of Human Relationships</u>, Dr. Louis Cozolino

<u>Attachment-based Yoga and Meditation for Trauma and Recovery,</u> Deirdre Fay

Being in my Body, Toni Rahman

Dr. Allan Shore, Phd allanshore.com

rubyjowalker.com

BIBLIOGRAPHY CONTINUED:

Bouncing Back, Linda Graham

The Developing Mind, Dan Siegel

Resilience, Rick Hanson

Nurturing Resiliency, Kathy Kain and Steven Terrel

dianepooleheller.com

rickhanson.net

re-embodylife.com—AST Model of Shame by Caryn Scotto d'Luzia

The Mindful Self-Compassion, Workbook by Kristin Neff and Chris Germer