



Elisha Goldstein, Ph.D.
Co-founder
The Center for Mindful Living



Director of Research & Education
The Glendon Association
Senior Editor
PsychAlive.org

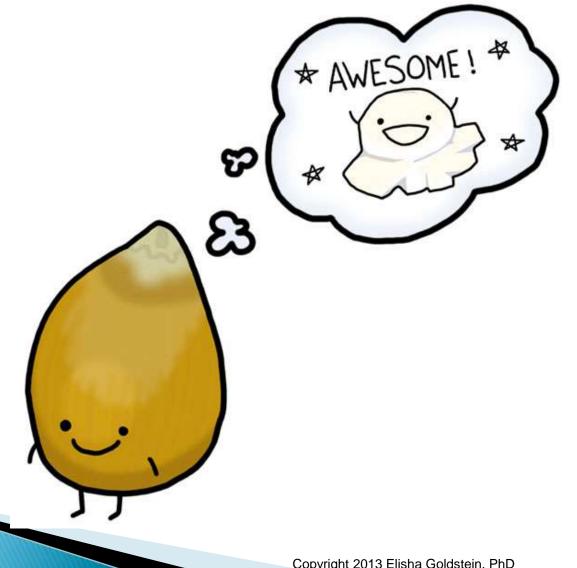


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Pop into the Present!



Uncovering Happiness

The New Science of an Anti-Depressant Brain



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Seminar/Retreat

- What Makes Us Resilient
- What Gets in the Way
- Understanding the Depressed Brain
- How the Brain Changes
- Igniting Our Natural Anti-Depressants



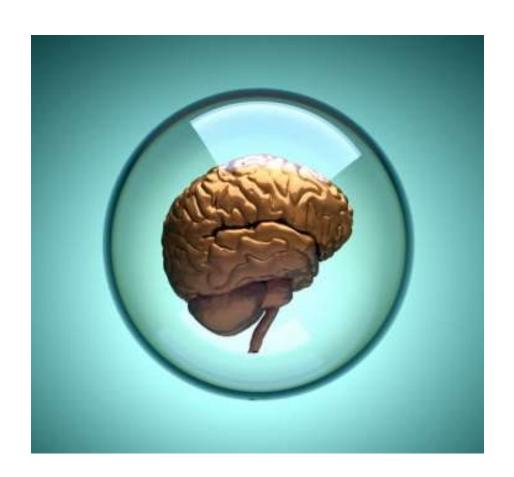
Let's Take a Walk Down the Street



Benefits of Positive Feelings

- Most of our decisions are made from the emotional center of the brain, positive emotions have a big impact:
- More open and approaching in life
- Increase hope and optimism
- Mediate depressive thinking
- Bolster Immune functioning
- Increase resiliency

One Major Problem:



Try this Little Experiment









Reactions

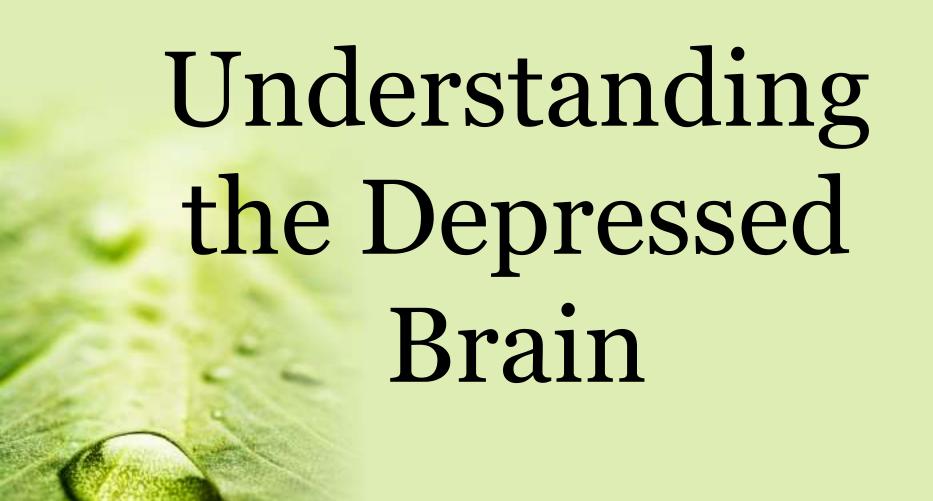
Thoughts? Feelings?

Automatic Negativity Bias



- Evolutionary reason
- John Cacciopo Brain More Sensitive to Negative Information
 - Brain lights up more with negative information than positive
- Want a Good Relationship?
 - John Gottman 5 Positive Interactions to 1 Negative Interaction
- Want a Good Life?
 - Barbara Frederickson 3:1 to feel happy.

Ito, T. A., Larsen, J. T., Smith, N. K., & Cacioppo, J. T. (1998). Negative information weighs more heavily on the brain: The negativity bias in evaluative categorizations. *Journal of Personality and Social Psychology*, 75, 887-900



What is Depression?

A dryness of the heart that sometimes made me want to run away from the world."

~Ghandi

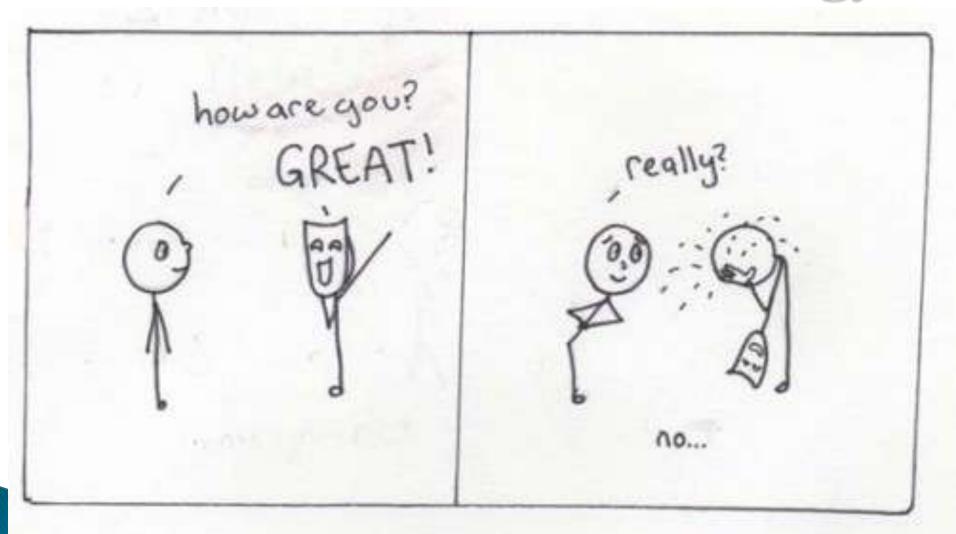
"Thoughts and emotions that undermine inner peace."

~ The Dalai Lama

"If I were under water I would scarcely kick to come to the top."

John Keats

Ultimate Avoidance Strategy



A Medical Illness

<u>Pneumonia</u> – Strikes at the lungs.

Major Depression strikes at the brain

"Death was now a daily presence, blowing over me in cold gusts. Mysteriously and in ways that are totally remote from normal experience, the gray drizzle of horror induced by depression takes on the quality of physical pain... [the] despair, owing to some evil trick played upon the sick brain by the inhabiting psyche, comes to resemble the diabolical discomfort of being imprisoned in a fiercely overheated room."

~ William Styron, Darkness Visible

<u>Allergies</u> – Aggravate our mind and body <u>Dysthymia regularly affects our mind and body</u>

A Trauma: The Depression Loop



Addictive behaviors

Avoidant
Couch Potato



Thoughts

Nothing will change. No one can help me I can't help myself



Sensations

Heaviness Restlessness Tiredness



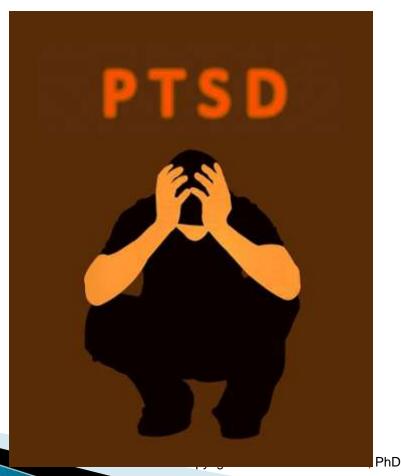
Emotions

Sadness Hopelessness Irritability

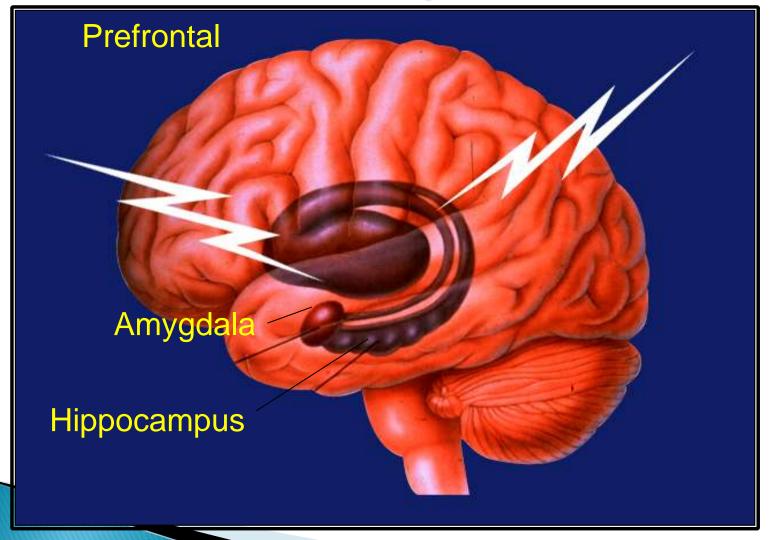


Jeopardy Question:

The PFC, Amygdala and Hippocampus are associated with what disorder?



Depression Affects Three Key Areas



One Thing We Know for Sure

Depression is Trauma and is shrouded in



Shame Affects the Brain

Physiologically shame is similar to stress

• Sweating, body awareness, shaking, uncoordinated activity, cognitive impairment, gaze aversion (Allan Schore)

Shame triggers the avoidance system of the brain (Right prefrontal)

What part of the brain is triggered in someone with depression?

The right prefrontal cortex

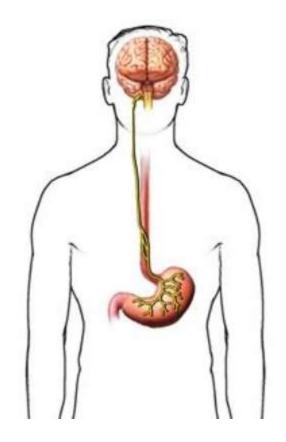
Vagus Nerve

High Vagal Tone

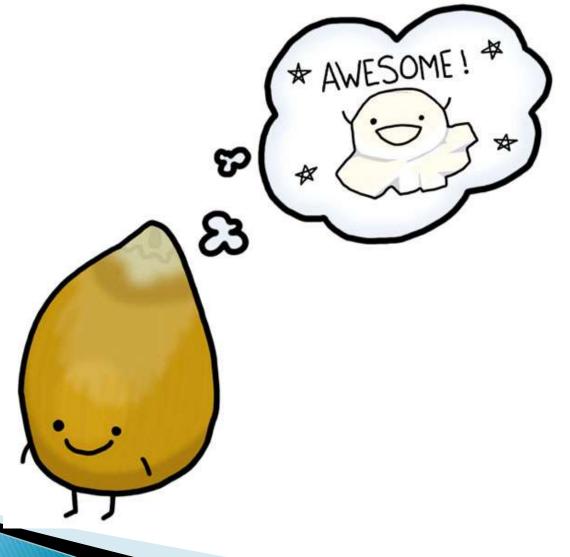
Slows heart rate, regulates internal systems, Calm, rest, relaxation, contentment

Low Vagal Tone

Difficulty regulating emotions
Flat affect
Low voice tone
Tied in with Oxytocin network (Connection)
Associated with Trauma and Depression



Pop into the Present

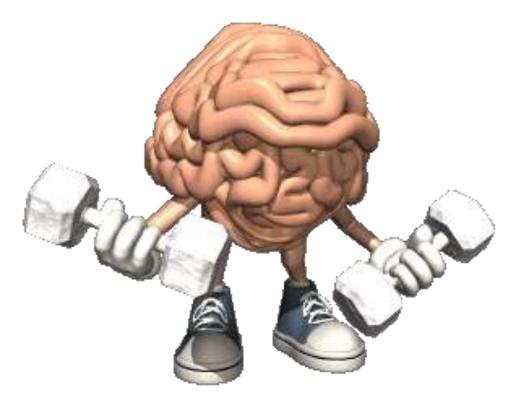


What We Need to Impact for an Anti-Depressant Brain

- Increase Left Prefrontal Activation
- Lower Amygdala Activation
- Strengthen the Hippocampus
- Increase vagal tone
- Extra credit: Reduce Cellular Inflammation, Increase Dopamine, Gaba and Oxytocin

One Last Question: Is it Nature or Nurture?

Does it really matter?





Three Ways

- Brain Change Influences Mental Perception
- ▶ The Mind Influences Brain Change
 - State-Dependent Activity
 - Trait-Dependent Neuroplasticity
- With intention, effort, repetition and strategy we can use the mind to change the brain for the better.

What Kind of Learning?

- Explicit Memory Memorizing events, facts, dates, names, general knowledge
- Implicit Memory Memorizing procedures, walking, talking, eating, how to relate to difficult emotions.
- Implicit memory is what we're after in breaking old emotional procedures and patterns.

Implicit Vs. Explicit: Demonstration

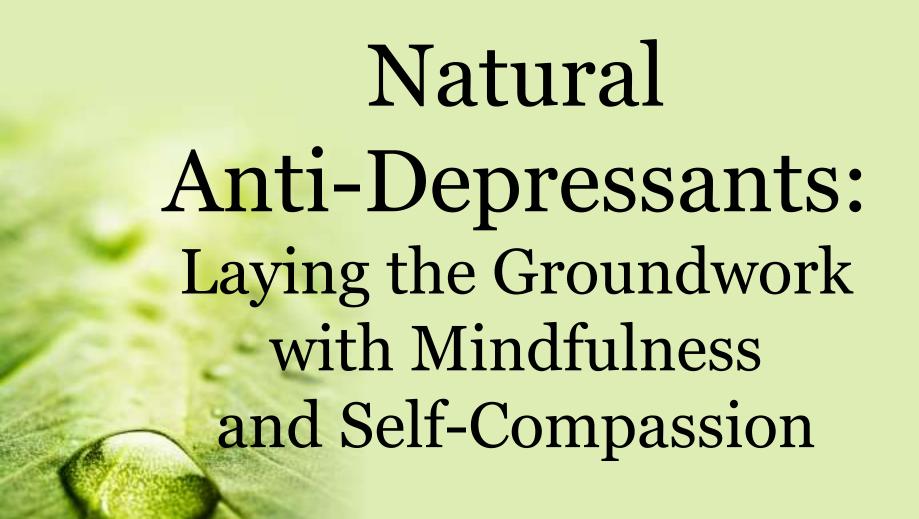


The Science of Natural Anti-Depressants

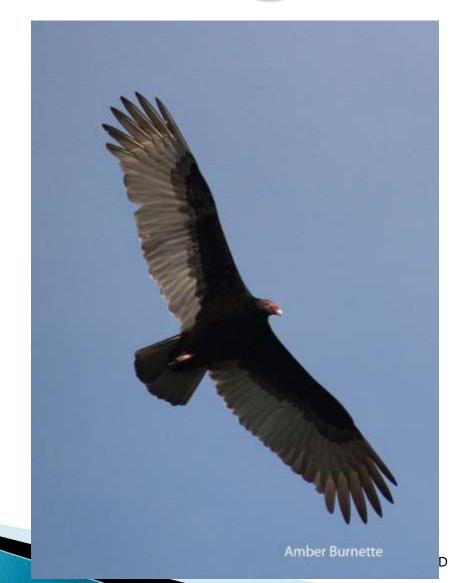
- Left prefrontal activation (Approach)
- Reduction of amygdala
- Reduction of cortical midline
- Increase cortical thickness
- Boosts immune system
- Improves mood
- Creates "positive loop."

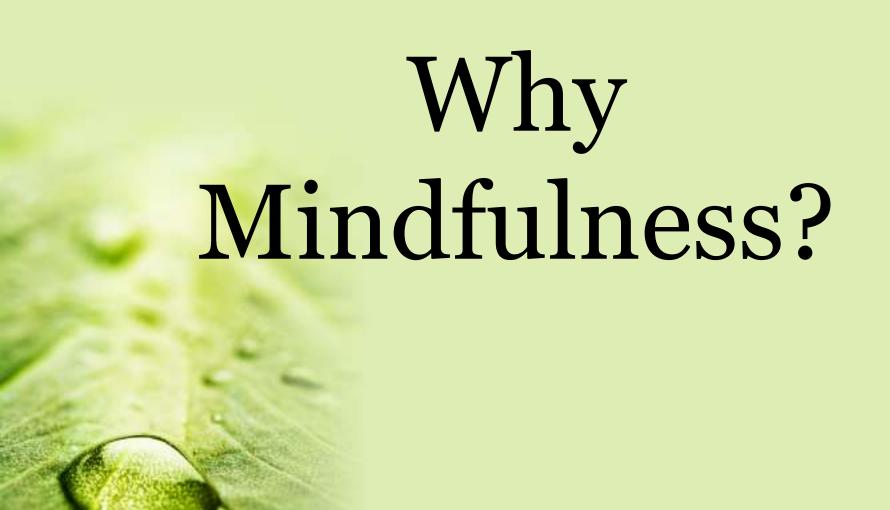
Uncovering Happiness: 5 Natural Anti-Depressants

- **Mindfulness:** A state of mind defined as a kind awareness, where we can have fresh eyes, perspective and balance.
- **Self-compassion:** A state of mind where you understand your own suffering and use mindfulness, kindness, and loving openness to hold it non-judgmentally and consider it part of the human condition.
- **Purpose:** A state of mind where you are actively engaged in living alongside your values, inclined toward compassion for others, and an understanding of how your existence contributes value to the world.
- 4. **Play:** A flexible state of mind in which you are presently engaged in some freely chosen and potentially purposeless activity that you find interesting, enjoyable, and satisfying.
- **Mastery:** A state of mind where you feel a sense of personal control and confidence and are engaged in learning to get better and better at something that matters.

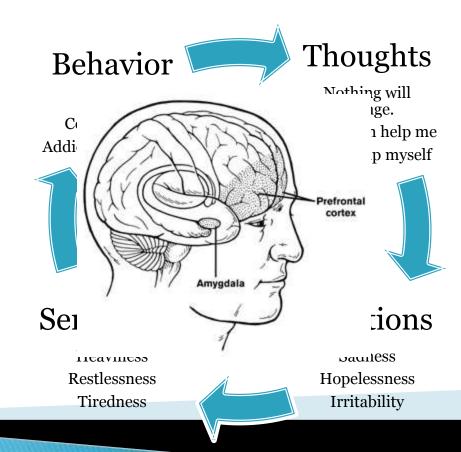


Two Wings to Fly





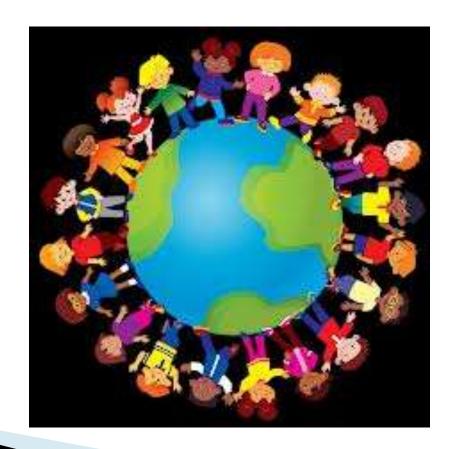
Creates Perspective and Choice



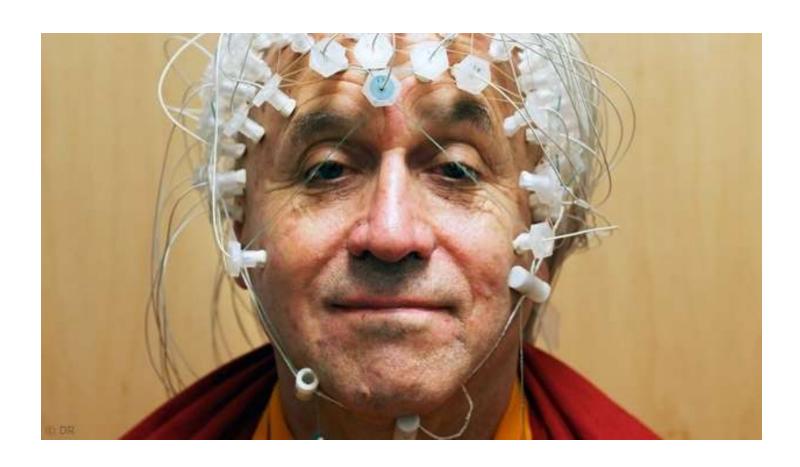


What is it?

"Being aware of our own suffering with an inclination to help ourselves."



The Neuroscience of Resiliency



Self-Compassion ≠ **Depression**

- 142 Depressed, 120 not-depressed
- Depressed showed lower self-compassion
 - Controlling for depressive symptoms
- Self-compassion ≠ depressive symptoms, rumination and avoidance
- Rumination and avoidance mediated relationship between self-compassion and depressive symptoms
- Tobias Krieger, David Altenstein, Isabelle Baettig, Nadja Doerig, Martin Grosse Holtforth, Self-Compassion in Depression: Associations With Depressive Symptoms, Rumination, and Avoidance in Depressed Outpatients, **Behavior Therapy**, Volume 44, Issue 3, **September 2013**, Pages 501–513

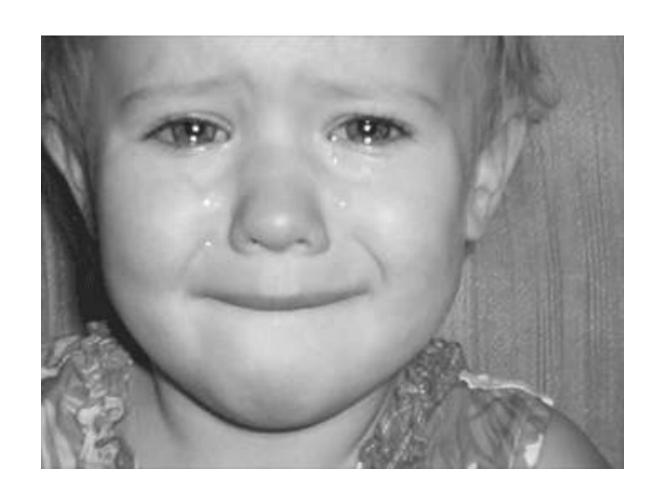
First a Question:

Since it's difficult to cultivate self-compassion with a history of depression. How do you convey the quality of compassion when dealing with our own emotional suffering?

We need to appeal beyond the rational brain and to the emotional brain.

How can we do this?

What Comes Up for You?



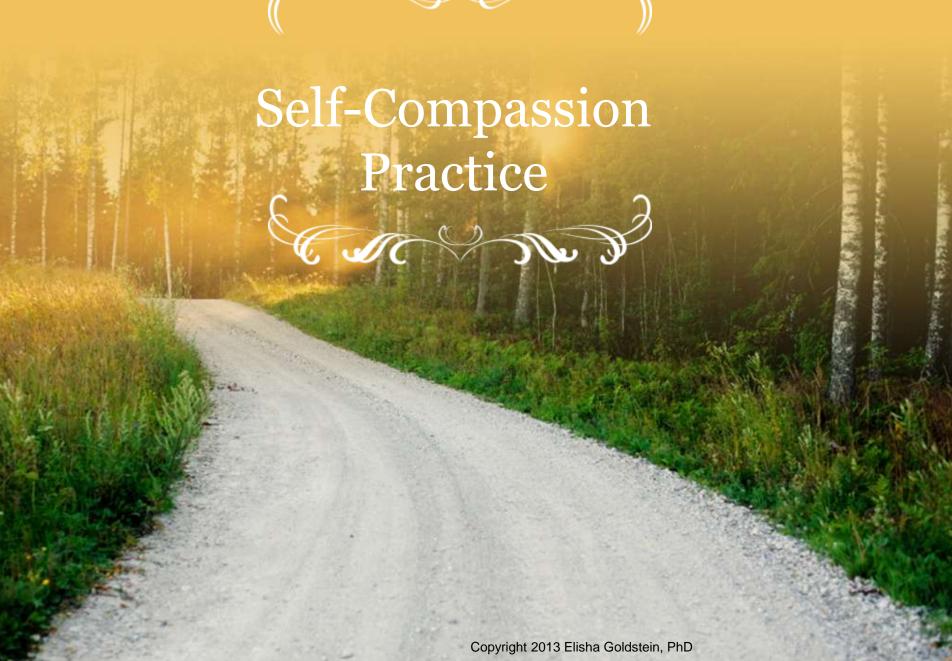
The Power of Vulnerability



Don't turn away. Keep your gaze on the bandaged place. That's where the light enters you.

~ Rumi 13th Century Sufi Poet





Discussion

- What did you notice?
- i.e., thoughts, sensations, emotions?
- How is this relevant to breaking the depressive loop?

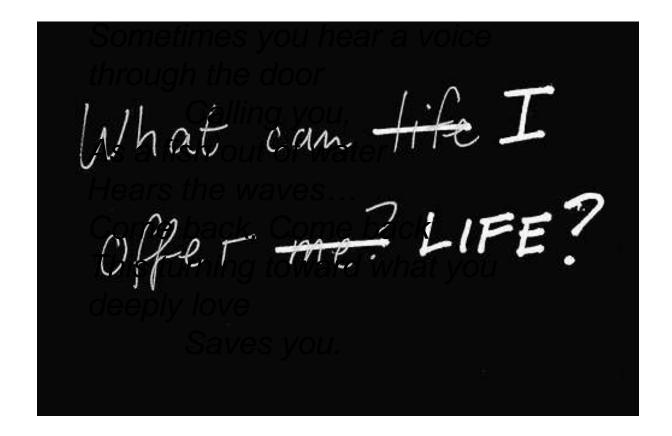




Sometimes you hear a voice through the door
Calling you,
As a fish out of water
Hears the waves...
Come back, Come back
This turning toward what you deeply love
Saves you.

~ Rumi

Live With Purpose & Compassion



Reducing Inflammation

Studies have shown a correlation between high level of cellular inflammation and depression

Hedonic Happiness

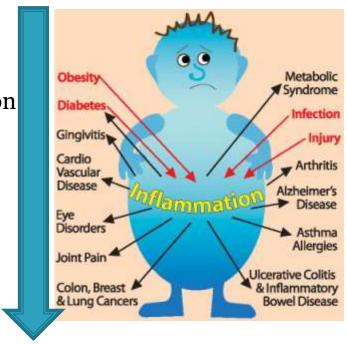
"Living the good life" High Inflammation

Eudaimonic Happines

"A life of purpose and meaning"

"A life rich in compassion"

= Low Inflammation



Barbara Fredrickson et al. "A Functional Genomic Perspective on Human Well-Being," *Proceedings of the National Academy of Sciences of the United States of America* 110, no. 33 (August 13, 2013): 13684–89.

When Money Can Buy Resiliency Pro-Social Vs. Anti-Social



When Money Can't Buy Resiliency



"It's not enough to be compassionate, you must act."

~ The Dalai Lama

What Do You Value?

Making Pro-Social Values into Verbs

Compassion A daily practice of thinking of people in my life

or in the world who are struggling and wishing

them lovingkindness

Strong Family
Have nightly meals together without

electronics

World Peace Volunteer or give money to (Pick your

organization)

Too Much Compassion?

We're all at risk

Between 16 – 85% of healthcare workers develop "compassion fatigue" – a gradual lessening of compassion.

Balance with compassion and...

Hooper, et al. (2010). Compassion Satisfaction, Burnout, and Compassion Fatigue Among Emergency Nurses Compared With Nurses in Other Selected Inpatient Specialties. Journal of Emergency Nursing, 36(5), 420-427. Retrieved from http://dx.doi.org.hsl-ezproxy.ucdenver.edu/10.1016/j.jen.2009.11.027



Play!

What is Play?

It's Natural







"The opposite of play is not work, it's depression."

~ Brian Sutton-Smith

Play ≠ Depression

Play	Depression
Engaged (Left Prefrontal)	Disengaged (Right Prefrontal)
Absence of self-critic	Self-Judgment
Flexible Mind	Rigid Thinking
Positive Emotions	Negative Emotions
Social (High Vagal Tone)	Isolation (Low Vagal Tone)
Open to possibilities	Helplessness

The Science of Toys and Playmates



Three Conditions

- Playmates and Toys
- 2. Playmates, No Toys
- 3. No playmates, No Toys



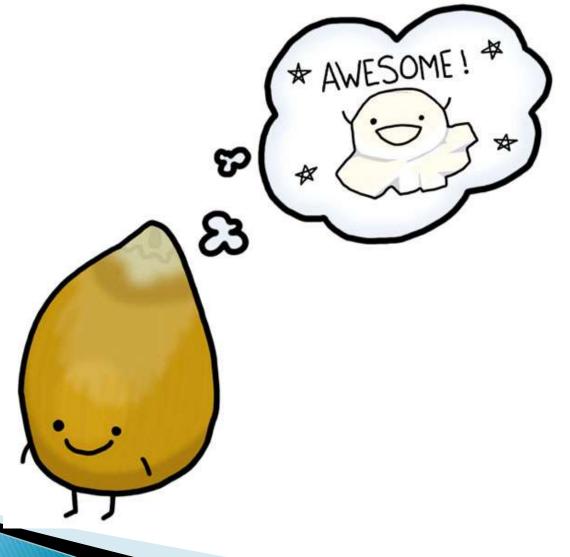
Results

Group 1 had significantly thicker cerebral cortex - Cognitive processing, attention and awareness. (Key determinant of change – novelty).

When thicker is sometimes better - They could also navigate a maze better (higher behavioral performance).

Group 3 showed decreased cortical thickness.

Pop into the Present



Mouse from Group 1



How to Nurture Play?

Take a Play History

Diego's Story

Bring it to the Present

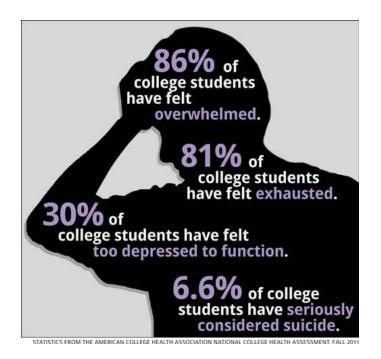
- What are your toys?
- Who are your playmates?
- Make a playbook and playdates.



The Golden Rule:

Getting Better is Not About Performing Well





Mindset Matters

Fixed Mindset - Performance

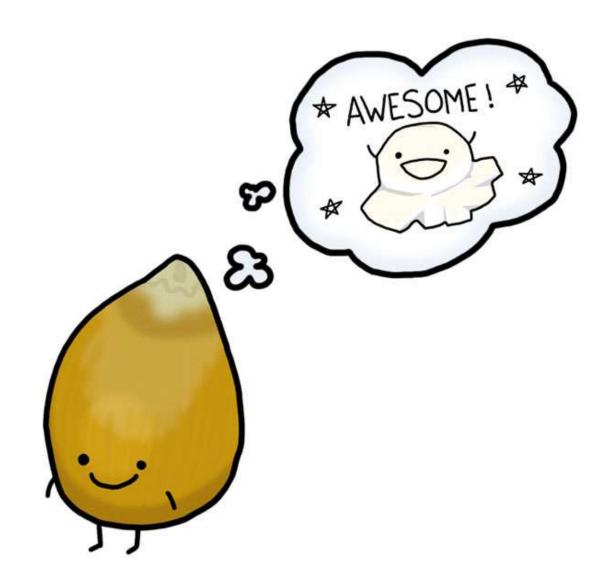
- Rigid belief that you have finite abilities.
- Every encounter with the depression loop becomes a measure of your ability. Setbacks just reinforced the fixed belief.

Growth Mindset - Learning

- Flexible belief that we all have varying abilities, with strategy and effort we can increase them.
- Every encounter with the depression loop becomes an opportunity to learn and grow.

Exercise: What is Your Mindset?

- 1. When it comes to cultivating the anti-depressant brain, you have an idea of what you can and can't do and there's not much you can do to change that.
- 2. No matter what your upbringing is or genetic predisposition, there is always opportunity for change.
- 3. While you can change your actions, you have a natural set point that you'll always come back to with depression.
- 4. There is always the possibility to change certain things about what you believe you can and can't do in the world.



Pulling it All Together

Build It

"Make a list of all the things you do in a day."

"Mark each with an "N" for nourishing and a "D" for depleting."

Extend It

"Write other things that integrate your natural anti-depressants - mindfulness, self-compassion, purpose, play or mastery."

Schedule It

- Increase Nourishing, Reduce Depleting or Relate to depleting differently
- Look for open spaces or for neutral activities and replace them with natural anti-depressants.

Neutral/Depleting Activities	Extended List Activities	<u>Natural Anti-Depressant</u>
	<u>Accomplishment/Pleasure</u>	
Wake up, Check phone	Take a few deep breaths or the "BE" practice.	Mindfulness
Make breakfast	Healthy Eating - Swap frozen waffles for healthier choices like oatmeal or granola and yogurt. Remind myself this is taking care of me.	Self-Compassion, purpose, play
Take a shower	Bring more mindfulness to the shower experience.	mindfulness
Drive to and from work	Listen to audio programs I've been wanting to hear.	Purpose, self-compassion, play
Checking email during lunch	Go out on a 20-minute walk	Self-compassion, purpose
Flip TV channels at night	Either watching specific shows that are fun for me, taking a bath, connecting with friends and family.	Play
Check messages before bed	Listen to relaxing old tunes, do a meditation, read a book I've been meaning to get to.	Play, self-compassion

3 Steps to Uncover Happiness

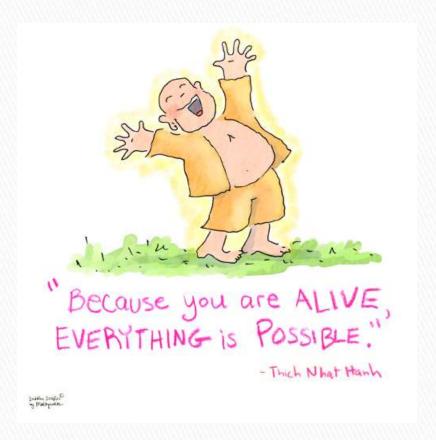
- **Engage** Start with engaging Mindfulness, Self-Compassion and any of the natural anti-depressants.
- 2. **Forgive** When the mind wanders, practice "forgive and invite" and gently guide it back.
- Repeat Repeat step 2 indefinitely.

"The trick is to recognize where the spaces are in your daily life to stop and drop into practice."

~ The Now Effect

Remember...

"Wherever you are that's the entry point." ~Kabir

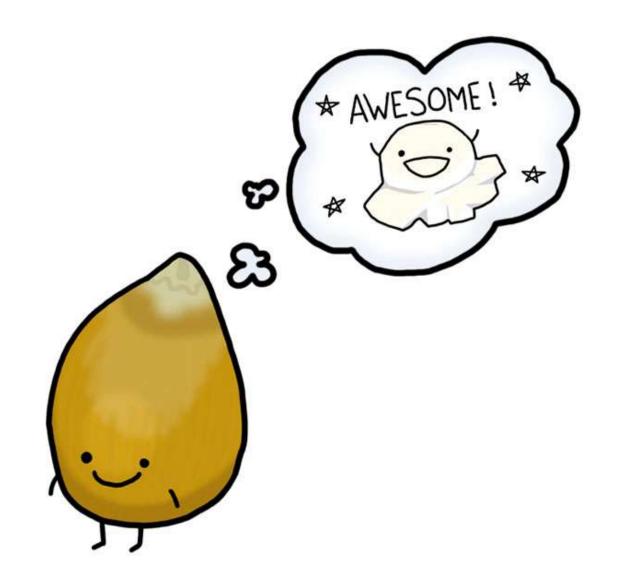


What is the Secret?

How Did the rose Ever open its heart And give to this world All its Beauty? It felt the encouragement of light Against its Being, Otherwise, We all remain Too Frightened.



from "The Gift"
(poems by Hafiz)







Elisha Goldstein, PhD

Website: www.elishagoldstein.com

Facebook: Elisha Goldstein

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Contact:

glendon@glendon.org

800-663-5281



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