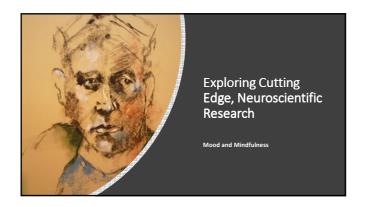


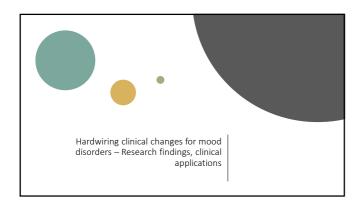
This content represents the opinions of the consultant. It carries no endorsement of the University of Georgia.

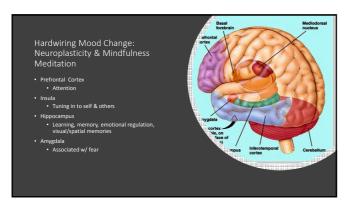
#### Artists' Credits

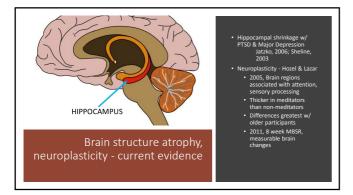
- Greg Dunne visual neuroscience
- James Hoffman insect photography
- Frank Hunter photographs
- Rich Panico pastels, charcoal Mary Porter – acrylics
- · Barbara Pritchard paintings, photos
- Robert Sturman yogic photographs
   James Valentine nature photography
- \* Images used with the artists' blessings











A Meditation for Re-growing Atrophied Brain Structures

- Mindfulness thoughts as coming and going in the mind
- Meditation noting & labeling categories of thoughts
   Remembering
   Planning

  - Judging
- On and off the cushion label thoughts, identify feelings

Benefits of interoceptive awareness • Enhanced:
• Sensitivity Non-Reactivity Presence and Agency Increased:
 Positive Experiences



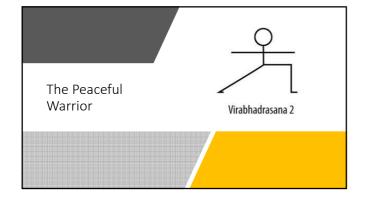




#### Body Mapping: Finding the Feeling Chodron, 2013

• We don't have to attach so much meaning to what arises, we also don't have to identify with our emotions so strongly. All we need to do is allow ourselves to experience the energy – and in time it will move through you. It will. But we need to experience the emotion – not think about the emotion.

- Pema Chodron



Establish a standing posture or mountain pose

Bring the feet shoulder distance or more apart

Turn the right toes in

On the exhalation bend the left knee

Align the knee with the ankle

On the inhalation, raise the arms to shoulder height

Look out over the front fingertips

As is comfortable, allow the pelvis to relax downward

Complete the same movements with the opposite side

Findings - mindfulness and emotional regulation

Experienced meditators Fisher, 2018

• Greater dispositional mindfulness

• Fewer emotional regulation challenges

• Less negative self-thinking

• Reduced uncontrolled eating tendencies

Dispositional mindfulness through association w/ emotional regulation Hafner, Naula, 2018

• Lower rejection sensitivity

• Less withdrawal following rejection

On-line Mindfulness Program

Ma, 2018

• Emotional regulation mediator between mindfulness & psychological distress (anxiety & depression)

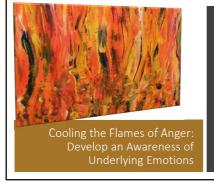


Build emotional regulation skills



RAIN: A Four-Step Process for Developing Emotional Responsiveness

- Recognize
- Accept/Acknowledge
- Investigate
- Non-Attachment



- Recognize anger
- Acceptance the situation
- Offer loving kindness & self-forgiveness
- Non-Attachment

| Simple Gestures for | Working | With | Anger |
|---------------------|---------|------|-------|
| Willing Hands       |         |      |       |



Cultivate patience/ reduce irritability & reactivity

- Recognize impatience: awareness of mind/body cues
   Support patience through contemplative practice
   Establish & honor limits



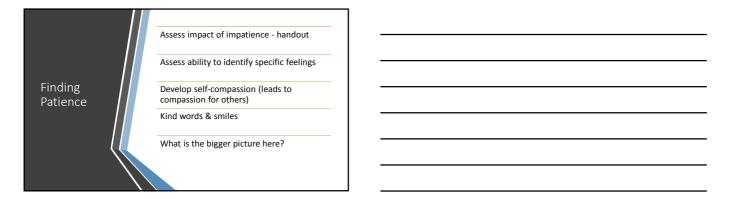
Build effective decision-making tools

- Guide choices through values clarification
   Choosing and consulting 'advisors'
   Tap into inner knowledge

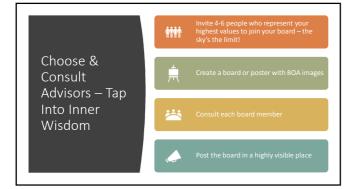


| Values and Decision Making  |  |
|---|--|
| Clarify what is important Guides choices meaning and life purpose   |  |
|   |  |
| Builds awareness     Emotional regulation strategy     http://www.youtube.com/watch?v=KL_OT3NkuNE  Walking Meditation for addressing intense energy |  |
|   |  |
| Cultivate Patience: A Key to Emotional Regulation   |  |

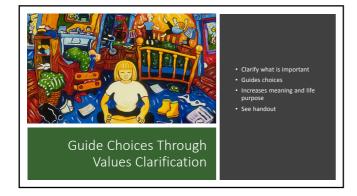
| Patience  | erse relationships: legative emotions - Self-reported health concerns   |   |  |  |
|---|---|---|--|--|
|   |   | ] |  |  |
| Patience – Additional Science<br>Tangney, Baumeister, & Boone, 2004 | Self Control (strong correlate) predicted:     Better grades     Less psychopathology     Higher self-esteem     Less shame |   |  |  |
|   |   |   |  |  |











Are the Dalai Lama's monks happier? - Findings on mindfulness & positive emotions



- Mindfulness & self-compassion w/ emotional flexibility
- nexionity

  Benshai, 2018

  Mindfulness positive association w/ emotional regulation

  Wang, 2016

- Mechanism Emotional resilience
   Ability to generate positive emotions
   Ability to recover from negative emotions
- Mindfulness & relaxation training Jain, Shamini 2007

Reduce distress; increase positive emotions Mindfulness reduces distractive & ruminative thoughts, behaviors

So, your clients aren't monastics? brief neuroplasticity strategies for creating balanced mood

- Self-directed neural feedback
- Calming and energizing breathing practices
- Gentle yogic movements
   Grounding practices





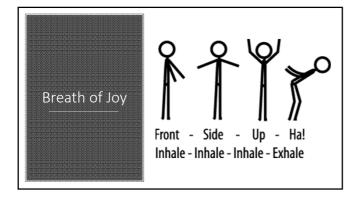
| Savoring 0'Hanlon 8 | 5 6 ( 4 ( II) ) 1 2012          |
|---------------------|---------------------------------|
| JOVOITIE O Hanion 8 | A Bertolino, 2012               |
|                     |                                 |
| Present             | Full attention                  |
| • Past              | Use senses                      |
| Future              | Avoid multi-tasking             |
|                     | Don't overdo - avoid adaptation |
|                     |                                 |
|                     |                                 |
|                     |                                 |
|                     |                                 |
|                     |                                 |
|                     |                                 |
|                     |                                 |
|                     |                                 |
|                     |                                 |

### Savoring Gifts

- Simple pleasuresPersonal strengths, talentsNatural beautyKindness







Energized, Empowered, Grounded: The Goddess Posture – Ukata Konasana

- Inhale
- Active Exhalation HA!
- While moving into squat position w/ cactus arms
- Inhale, returning to standing
- Nine rounds



| (for the power of Compassion — Loving Kindness According to Science  Positive emotions, \$\phi\$ social socialistics  (for the profession = \$\phi\$ social socialistics)  (for the profession = | prefrontal cortex, online and integrate it with those lower levels of the brain that have more to do with reactivity, and perception of threat, and all of those things that can often hijack us, such as in traumatic situations or even in just an argument with the spouse.  Marsha Lucas   |  |
|--|--|--|
| The Power of Compassion — Loving Kindness According to Science  ↑ positive emotions; ↓ social isolation (Kearney, 2013) ↑ therapist in training - self-care & compassion (Boellinghaus et al, 2013) 1 ologer telomeres in females; ↓ dronic stress   |  |  |
| The Power of Compassion — Loving Kindness According to Science   ↑ positive emotions; ↓ social isolation (Kearney, 2013)  ↑ life resources & satisfaction; ↓ illness symptoms (Fredrictson et al, 2008)  ↑ therapist in training - self-care & compassion (Boellinghaus et al, 2013)   | Healthy Self-Attachment  |  |
| The Power of Compassion — Loving Kindness According to Science   ↑ positive emotions; ↓ social isolation (Kearney, 2013)  ↑ life resources & satisfaction; ↓ illness symptoms (Fredrictson et al, 2008)  ↑ therapist in training - self-care & compassion (Boellinghaus et al, 2013)   | readily self-Actaerment  |  |
| Kindness According to Science  ↑ positive emotions; ↓ social isolation (kearney, 2013)  ↑ life resources & satisfaction; ↓ illness symptoms (Fredrickson et al, 2008)  ↑ therapist in training - self-care & compassion (Boellinghaus et al, 2013)  • longer telomeres in females; ↓ chronic stress  |  |  |
| Kindness According to Science  ↑ positive emotions; ↓ social isolation (kearney, 2013)  ↑ life resources & satisfaction; ↓ illness symptoms (Fredrickson et al, 2008)  ↑ therapist in training - self-care & compassion (Boellinghaus et al, 2013)  • longer telomeres in females; ↓ chronic stress  |  |  |
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| ↑ positive emotions; ↓ social isolation     (kearney, 2013)     ↑ life resources & satisfaction; ↓ illness symptoms     (Fredrickson et al, 2008)     ↑ therapist in training - self-care & compassion     (Boellinghaus et al, 2013)     longer telomeres in females; ↓ chronic stress  | The Power of Compassion – Loving   |  |
| (Kearney, 2013)  ↑ life resources & satisfaction; ↓illness symptoms  (Fredrickson et al, 2008)  ↑ therapist in training - self-care & compassion  (Boellinghaus et al, 2013)  longer telomeres in females; ↓ chronic stress  | kindness According to Science  |  |
| (Kearney, 2013)  ↑ life resources & satisfaction; ↓illness symptoms  (Fredrickson et al, 2008)  ↑ therapist in training - self-care & compassion  (Boellinghaus et al, 2013)  longer telomeres in females; ↓ chronic stress  | Visit in the second of the sec |  |
| (Fredrickson et al, 2008)  • ↑ therapist in training - self-care & compassion (Boellinghaus et al, 2013)  • longer telomeres in females; ↓ chronic stress  | <u>\\$0.50.50.50.0000.0000.0000.0000.0000.00</u>   |  |
| <ul> <li>^ therapist in training - self-care &amp; compassion (Boellinghaus et al, 2013)</li> <li>longer telomeres in females; \$\psi\$ chronic stress</li> </ul>  |  |  |
| (Boellinghaus et al, 2013)  • longer telomeres in females; ↓ chronic stress  | Numeron and a state of the stat |  |
|  | (Boellinghaus et al, 2013)   |  |
| (Hoge et al., 2013)  |  |  |
|  | (Hoge et al., 2013)  |  |
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|  |  |  |



Living openheartedly – formal and informal kindness practices

- Increase thank you and smiles
   Smiling breath
   Deity or Sacred being practice

- Reliving moments of kindness

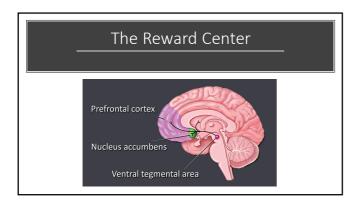
#### Slide 40

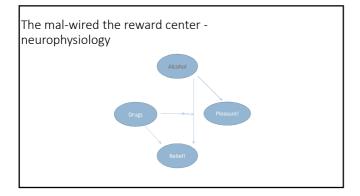
**DA1** Debra Alvis, 26/10/2017

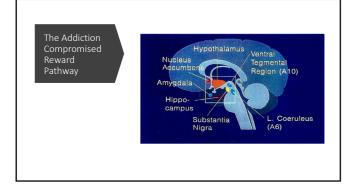
**DA2** Debra Alvis, 26/10/2017











#### Mindfulness and Substance Abuse Relapse Prevention Grow et al, 2015

- AOD frequency
- Each additional hour HP– 53% lower AOD use
- Cravings
- Cravings & HP inverse relationship





cravings with mindfulness & rewiring the reward center

- RAIN for cravings
   Urge surfing

- Returning to the true self
   Identifying healing narratives

#### **Working with Cravings**

- Recognize wanting
- Accept
- Investigate- Seeing chocolate
- Non-attachment -Offer to others
   "May all have enough to eat."



A Mindfulness Perspective: The Separate Self

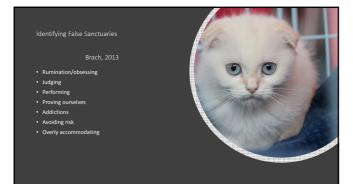
Brach, T. 2018

- The trance of unworthiness

  Cut off from our source
  perception of
  separateness
  Primal mood is fear
  Something wrong
  Some thing missing
  Not enough
- Leads to grasping & aversion
   Strategies to make it work out
   Family as message carrier

  Applications

- Monitoring
   How am I doing now?
   The gap between what we think we should be and our self-evaluation





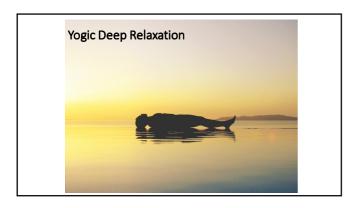
#### Returning to the True Self: Remembering the Gold

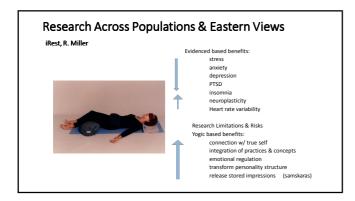
- The power of naming
   Noting activates left prefrontal cortex; quiets limbic system
- Training in presence & compassion
   Acknowledging truth of the moment
   Bringing light of awareness to what has been pushed away

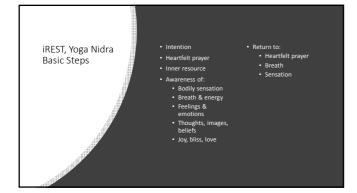
#### Non-Dual Inquiry for Identifying Healing Narratives

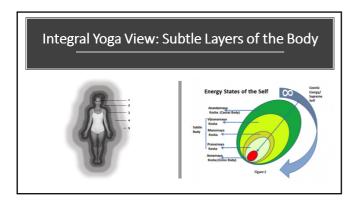
- Begin w/ challenging belief or emotion.
- 2. Reflect back client's words.
- 3. Identify core belief through continued reflection.
- 4. Identify where core belief is in body.
- 5. Identify whether core belief has a color.
- 6. Identify whether core belief has a shape.
- 7. Identify extreme opposite belief or feeling.
- 8. Move between opposites (1-2 minutes each) reflecting back
- 9. Identify middle ground.
- 10. Client repeats middle ground using name.
- \*Reflect back client's words & use breath each time.













After intense efforts to ward off reliving the trauma, therapists cannot expect that the resistances to remember will suddenly melt away under their empathic efforts. The trauma can only be worked through when a secure bond is established with another person; this can then be utilized to hold the psyche together when the threat of physical disintegration is re-experienced.

- van der Kolk

I wish I could show you when you are lonely or in darkness the astonishing light of your own being.

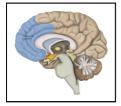


- Hafiz

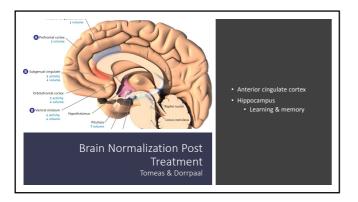
# The Neuroscience & Epigenetics of Adverse Childhood Experiences Less nurturing/reduced stress resliency • Fewer cortisol receptors • Less able to nurture • Nurturing future generation Increased aversion & helplessness • Vocalize less • Higher heart rates • Decreased vagal tone • Developmental delays

#### Neuroscience of Emotional Numbing

Frewen, 2012

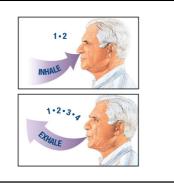


- Individuals w/ trauma Hx
- activation dorsal medial preftontal cortex
   Self-reflective awareness
  - Self-reflective awarenessknowing & reflecting re feelings
- Non-traumatized
  - Mindfulness of body & Dorsal medial prefrontal cortex



|         | Barrier Barrier                            |
|---------|--|
| Somatio | Rewiring the fight/flight/freeze response  |
|         | Restoring executive functioning/increasing |
|         | brain integration – horizontal processing  |
|         |  |

Breath for Panic: Pursed Lips Breath

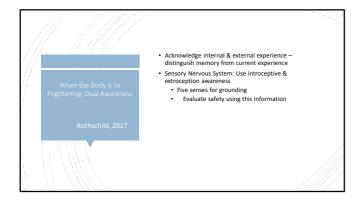


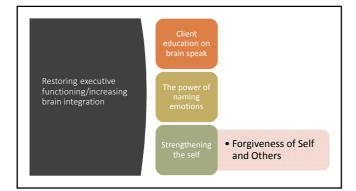
Rewiring the fight/flight/freeze response

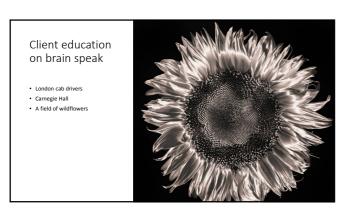
Client education for panic

Calming panic with breath and simple movement

Dual awareness







The power of naming emotions

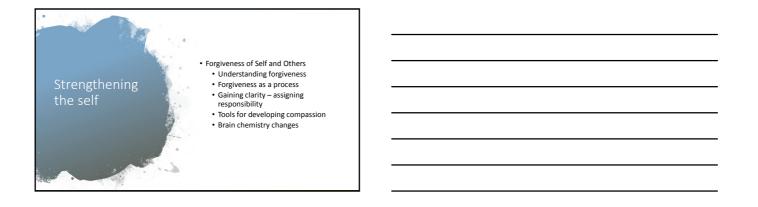
• Current neuroscientific views

• Neural integration

• Identifying emotions

• Psychoeducation on feelings









Easing trauma through self-compassion

- Call on best self
- Develop a relationship w/ symptom
- What caused it?
  - What is it trying to accomplish?
  - What are its fears?



Mindfulness for Clinicians

| Integrate Role and Soul  "In my early professional years I was asking the question: How can I treat, or cure, or change this person? Now I would phrase the question in this way: How can I provide a relationship which this person may use for his own personal growth?"  — Carl R. Rogers  |  |
|---|--|
| It's in courageously stepping toward safety and trust that our clients co-create with us a new secure base from which they reorganize their attachment representations. In this explicitly integrative holding environment, our clients risk showing us their anger, contempt, judgment, disapproval, rejection, joy, vitality, and wisdom. As we welcome all aspects of their expression with appropriate boundaries, our clients develop internal safety, a trust in themselves that forms a self-structure allowing them to venture for the into the world with a new, more secure base. |  |
| Empathy, relating to self & others     Mirror neurons deep within  The Neuroscience of Mindful Presence: The Insula   |  |



#### **Building Secure Attachment**

- Key components:
   Good enough self-narrative
   Attunement to child's experience
   Rapid re-connection after corrections
   Eye to eye contact
- Therapeutic relationship replicates conditions

#### Attachment Styles

- Attachment style persists

  - Avoidant
     Uncomfortable w/ intimacy
     Difficulty trusting
  - Insecure
     Mistrust
     Defensiveness
- Pessimism
   Self-esteem instability
   Anxiety, mood disorders
- Ambivelent
   Abandonment fears
   Unworthiness
   Addiction
   Jealousy

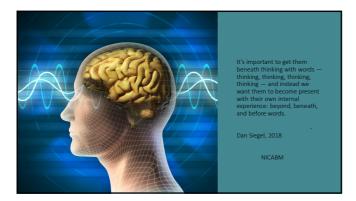
## Safe Attachment Figure & Fear Normalization Interpersonal regulator Helps child to know what they feel Regulate fear Resiliency

#### Healing Attachment Ruptures

Fay, 2017



- Present moment awareness
  - Secure attachment to self
     Yoga and mindfulness
- Titrate emotional distress What do you need right now?
   Self-compassion
   Capacity to witness
- Affiliative connections



- Presence openness to what is arising
  Check:
  Images
  Sensations
  Thoughts
  Feelings

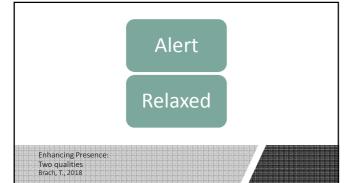
- Resonance internal state impacted by client
  Trust created as result of Resonance w/
  Attunement & Presence

| Therapeutic Presence, | Attunement, | Resonance, | Trust |
|-----------------------|-------------|------------|-------|
|-----------------------|-------------|------------|-------|

Siegel, D., 2010

- Presence openness to what is Attunement connecting to arising
  - Check:

    - ImagesSensations
    - Thoughts • Feelings
- client's inner world
- Resonance internal state impacted by client
- Trust created as result of Resonance w/ Attunement & Presence

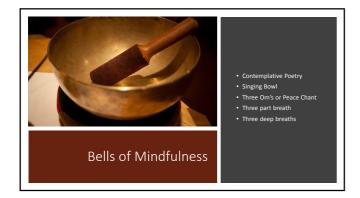














Hardwiring Recovery with Mindfulness and Neuroscience
Applications for Mood, Trauma, & Addictions
Debra Premashakti Alvis, PhD, C-IAYT
debraalvis@gmail.com