

ADVANCED MINDFULNESS TOOLBOX FOR REWIRING THE BRAIN

WEDNESDAYS: OCTOBER 10 - NOVEMBER 14, 2018 | 11:00AM - 1:00PM PST

WORKSHOP AGENDA

SESSION 1:

- Intro to Mindfulness and Cutting Edge Research
- The Truth about Stress
- The Power of Sense Grounding
- Brain Basics and Emotional Regulation

SESSION 2:

- Brain Basics and Emotional Regulation (Cont.)
- Train the Brain for Calm and Cognition
- Mindful Eating

SESSION 3:

- 5-Steps of Mindful Self-Care (Behavioural and Collaborative Side of Mindfulness) Connecting Clients to Mindfulness

SESSION 4:

- Re-Mindfulness
- The Power of Storytelling and Identifying Strengths
- Focusing the Mind for ADHD and Stress
- Mindfulness for Addictive Cravings
- Mindfulness for Chronic Pain

SESSION 5:

- Mindful Laughter for Depression, Anxiety and Grief
- Managing Moods through Attention and Selective Memory
- Harnessing Gratitude to Increase Positive Emotions
- Mindful Walking for Transitions and Anxiety

SESSION 6:

- Nature for Stress and Mental Exhaustion
- Healing Emotional Pain through Acceptance, Forgiveness, and Compassion
- Safe Anchors that Integrate Our Experience
- Putting It All Together

LEARNING OBJECTIVES

- Incorporate up-to-date mindfulness practices into your treatment plans.
- Understand how mindfulness can be utilized to rewire the brain.
- Implement the S-T-O-P grounding technique as a means to manage cravings and triggers.
- Investigate the science behind diaphragmatic breathing and the parasympathetic nervous system.
- Demonstrate 5 breathing postures and techniques for managing arousal.
- Use storytelling as a way to recognize character strengths and identify resources.
- Utilize 5 Mindful Self-care skills that support cognitive brain function, relational, and body-related practices.
- Train selective attention using evidence-based methods that enhance positive affect.
- Categorize stress as 'good' or 'bad' and employ four essential techniques for reducing 'bad' stress.
- Practice the stress-reducing power inherent in nature and mindful walking.
- Reframe chronic pain that cultivates non-judging awareness with the body scan practice.
- Invite greater mental flexibility and overcome anxiety by including laughter in therapy.
- Learn how gratitude is an effective attentional practice for managing depression.
- Use the loving-kindness practice to prime clients for greater feelings of safety and trust.



Donald Altman, M.A., LPC, is a psychotherapist, award-winning writer, former Buddhist monk, and past Vice President of The Centre for Mindful Eating. A featured expert in The Mindfulness Movie, he was profiled in Spirituality and Practice's Living Spiritual Teacher's Project and for years was an adjunct professor at Lewis and Clark Graduate School of Education and Counselling and Portland State University. A prolific writer whose career spans more than 30 years, Donald has authored several pioneering books on mindfulness, beginning with his 1998 Art of the Inner Meal. His books Clearing Emotional Clutter and The Mindfulness Code were both selected as "One of the Best Spiritual Books of the Year" in 2016 and 2010, respectively. The Mindfulness Toolbox: 50 Practical Tips, Tools & Handouts for Anxiety, Depression, Stress & Pain won the Benjamin Franklin Publishing Gold award as "best book in the psychology and mind-body-spirit categories. Donald teaches mindfulness and spiritual values internationally, and he is dedicated to bringing these ancient practices in tune with modern living and to invite wellness into our stress-filled lives.

Advanced Mindfulness Toolbox for Rewiring the Brain

Rewiring Anxiety, Depression, Pain, PTSD, and Stress

Welcome!

Donald Altman, M.A., LPC
info@mindfulpractices.com

Mindful Living Newsletter
MindfulPractices.com

Mindfulness Training • Consultation • Speaking

Today's Roadmap

Intro to Mindfulness

- Core Mindfulness; Affect Labeling and Prefrontal Cortex
- Practice: Compassionate Presence

Research & Useful (& Free) Web Resources

- Mindfulness Resources
- Brain Resources
- Mindfulness Apps

The Truth About Stress

- Stress Research; Stress and Epi-Genetics
- Assessing with Stress Instruments
- Anxiety and Stress Practice: Palm the Present Moment

Today's Roadmap

Brain Basics, and Emotional Regulation

- Visual Brain Model for Patients
- Mindfulness Module of Brain

Train the Brain for Calm and Cognition

- Turning on the Parasympathetic Nervous System
- Navy SEALs method for arousal control
- Practice: Diaphragmatic Breath & the 3 Min. Question for Clients

Mindful Eating

- Research
- Practice: 4-Step Mindful Bites Technique
- Luncheon: Optional Mindful Eating Experience

Today's Roadmap

Connecting Clients to Mindfulness

- Notice and Normalize Mind Wandering
- Using Learning Styles to Access Mindfulness
- Practice: Expanding the Mindfulness Vocabulary

Mindful Self-Care – Sleep

- Sleep Hygiene and the Glymphatic System
- Developing Healthy Sleep Rituals

Exercise and Movement

- Exercise and the brain
- Strategies for inviting exercise
- Importance of Factor P

Today's Roadmap

Integrating Mindfulness and Lifestyle Skills (cont.)

Pleasant Activities

- Simple, Realistic, Achievable
- Importance of Scheduling

Social Network

- Identify Losses or Changes in Social Network
- Address Building the Network

Managing Weapons of Mass Distraction

- Setting Technology Boundaries and Slowing Down
- Face-to-Face Contact Wires Brain
- Practice: Exploration of Time Spent with Technology

Today's Roadmap

Embracing B.L.I.S.S. In This Moment

- Importance of Recognizing Ordinary Good and Decent Things
- Practice: Savoring the Ordinary
- Practice: Embracing B.L.I.S.S.

APA Disclaimer: Materials that are included in this course may include interventions and modalities that are beyond the authorized practice of mental health professionals. As a licensed professional, you are responsible for reviewing the scope of practice, state or federal regulations that are defined in law as beyond the boundaries of practice in accordance with and in compliance with your professional standards.

Intro to Mindfulness & Research

- ▶ Core Mindfulness Practice
 - Noticing the Body, Breath, and Mind
- ▶ Website Resources
- ▶ Compassionate Presence

Core Mindfulness Practice

WHERE ARE YOU RIGHT NOW?

3-Part Practice

BODY as it is
(Rooted, Posture)

BREATH as it is
(Physical Contact Point)

MIND as it is
(Non-judging Labeling)

Affect Labeling and the Brain

Dispositional mindfulness is associated with greater widespread PFC activation and attenuated amygdala responses during affect labeling.

Affect labeling encourages participants to treat affective states as "objects" of attention, promoting a detachment from these negative states.

Neural Correlates of Dispositional Mindfulness During Affect Labeling
J. David Creswell, et. al., Psychosomatic Medicine 69:560 -565 (2007)

Emotional Regulation Produces Long-Lasting Effects on Amygdala

Study showed "evidence that cognitive regulation can create long-lasting changes in the ability of stimuli to elicit affective responses.

Amygdala response remained low during a follow-up after initial training.

Long-Lasting Effects of Emotion Regulation on Amygdala Response. Brian T. Denney, et. al., Psychological Science, July 2015) doi: 10.1177/0956797615578863

Useful (& Free) Web Resources

- ▶ Brain Resources
- ▶ Mindfulness Websites

As Effective as Anti-depressants for Relapse of Depression

- Depression patients in remission who underwent mindfulness therapy did as well as those who took an anti-depressant.
- Up to 40% of people who come out of depression do not take their prescribed anti-depressants to prevent relapse *

* Archives of Gen. Psychiatry, Segal, Zindel, and Bieling, Peter, et. al.; Vol. 67 (No.12) Dec. 2010 <http://archpsyc.ama-assn.org/doi/reprint/67/12/1256> (accessed January 18, 2012).

Meta-analysis of Mindfulness Interventions

- Mindfulness meditation led to significant lessening of:
- Symptoms of depression and anxiety after therapy and for up to 3 months after the treatment *

The Effect of Mindfulness-Based Therapy on Anxiety and Depression: A Meta-Analytic Review; Hoffman, et. al, J Consult Clin Psychol., April 2010

Mindfulness Slows Progression of Mild Cognitive Impairment (MCI) in Adults

- Subjects 55-90 yrs. with (MCI) meditated 15-30 min. daily for 8 weeks.
- MRI showed increase in functional brain connectivity in areas affected by MCI and Alzheimers Disease.
- Mindfulness Meditation reduced hippocampal atrophy and increased networks related to past memories and associations.

J Am Geriatr Soc. 2013 Apr. (6) 14. 642-645 doi: 10.1111/jgs.12179; *Meditation for Adults with Mild Cognitive Impairment: A Pilot Randomized Trial;* Rebecca Wells, Catherine Kerr, et. al.

Alters Physical Brain Structure

- Meditation alters brain structures in 8 weeks, in brain regions associated with memory, sense of self, empathy and stress.*
- 4-Day Meditation Training Improves Cognition and Reduces Anxiety and Stress**

*Massachusetts General Hospital, "Mindfulness Meditation Training Changes Brain Structure in 8 Weeks," <http://www.massgeneral.org/about/pressrelease.aspx?id=1329> (accessed January 30, 2011).

**Mindfulness meditation improves cognition: evidence of brief mental training. *Journal of Consciousness and Cognition*, June 2010; 19(2):597-605

Mindful Breathing Awareness

- Ability to stay in contact with the breath decreases mind wandering
- Watching breath reduced rumination, repetitive negative thinking, and depression
- Less fearfulness related to bodily sensations

The Healthy Quality of Mindful Breathing: Associations With Rumination and Depression, Jan M. Burg and Johannes Michalak. *Cognitive Therapy and Research Journal*, 2011, April, Volume 35, Number 2, 179-185

Pausing for Mindful Metacognition

- ▶ Taking a pause to reflect improves learning.*
- ▶ 2-Week Mindfulness Meditation Training increased the accuracy of perception and memory.**

Benefits of Metacognition:

- Helps us develop more accurate judgment about our abilities and insight about ourselves
- Is a skill that can be developed by pausing to reflect.
- Pausing in session helps clients to integrate what they have learned from therapy.

* **Improving learning through enhanced metacognition: a classroom study;** J. R. Baird, *European Journal of Science Education* 1986

** **Domain-specific enhancement of metacognitive ability following meditation training;** *Journal of Experimental Psychology: General*, 2014 May 12.

The Mindful Therapist

- How Does a Clinician's Mindfulness Affect Therapy?
- Positive correlation between clinician's mindfulness and the therapeutic alliance
- Non-judgmental acceptance and openness to experiences were predictors of a strong therapeutic relationship

Mindfulness in Clinician Therapeutic Relationships, Mindfulness, August 2013, Russell Razzaque, Emmanuel Okoro, Lisa Wood

Mindfulness Resources/Research

- > National Telecenter for Health and Technology
www.t2health.dcoe.mil/apps/breathe2relax
- > Greater Good; The Science of a Meaningful Life
www.GreaterGood.berkeley.edu
- > Center for Investigating Healthy Minds:
<http://www.investigatinghealthyminds.org>
- > MARC, The Mindful Awareness Research Center
www.marc.ucla.edu/body.cfm?id=38&oTopID=38
- > Mindfulness Research Monthly for new mindfulness research that is being published. goamra.org
- > DANA.Org Dana Foundation Brain Research Dana.Foundation
- > MindGains.Org Global.Assoc.Interpersonal.Neurobiology
- > TCME.Org The.Center.for.Mindful.Eating

Mindful Compassionate Presence

Three Questions
—by Leo Tolstoy

- What is the best time to do each thing?
- Who are the most important people to work with?
- What is the most important thing to do at all times?

The Truth About Stress

- ▶ Stress Research; Stress and Epi-Genetics
- ▶ Identifying Stress & Assessing with Stress Instruments
- ▶ Practice: Be a Smart Stress Avoider

At the Movies...Angry Yoga & Honoring Stress

Why Worry About Stress?

Stress— a biological, psychological, social reaction to fear, anxiety, chaos, and demands of the environment.

- ▶ What music ripples through your brain and body during times of stress and transition?
- How can you reduce and replace ripples of stress with a tune of peace, harmony, and joy?

Effects of Daily Stress

- ▶ **Handling stress poorly each day puts you at a greater risk for mental health issues 10 years from now**
- ▶ Significant increase in clinically diagnosed anxiety and depression in those who reacted negatively to stress.
- ▶ Research suggests the importance of view stress as a challenge, rather than as a threat.
- ▶ Your attitude can make all the difference in your mental health.

The Wear and Tear of Daily Stressors on Mental Health, Psychological Science. 2013 24: 733 Charles, Piazza, et. al

Stress Survey in America

- ▶ **80% said their stress either stayed the same or increased over the past 2 years.**
- ▶ **PHYSICAL SYMPTOMS:** 69% experienced upset stomach, headaches, muscle tension, insomnia, lack of appetite.
- **PSYCHOLOGICAL SYMPTOMS:** 67% experienced irritability, anger, sadness, and tearfulness
- **UNHEALTHY BEHAVIORS:** 36% reported eating unhealthy foods or eating excessively in response to job stress; Many reported treated family and others poorly.

APA (2013). Stress in America. From: <http://www.APApractice.org>

Stress-Related Illness

- ▶ 25 Million Americans suffer from a stress-related illness, including:
 - Chronic Fatigue Syndrome
 - Back Pain
 - Auto-Immune Disease
 - ▶ 8 of 10 commonly used drugs treat symptoms of stress
 - ▶ Cost is 30% of total US mental health services
- Journal of Clinical Psychology, 1999*

New

Stress Effects: Amygdala Activity Related to Cardiac Events

First study to link over active amygdala with arterial inflammation and heart disease- heart attacks and strokes- in a longitudinal study

"amygdalar activity independently and robustly predicted cardiovascular disease events" in 293 persons, median age 55

[http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(16\)31714-7/fulltext](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(16)31714-7/fulltext) published Jan 11, 2017

The New Science of Epi-genetics

Nova and Epigenetics

- Meditation altered gene expression changes to more than 2200 genes, including those responsible for inflammation, handling of free radicals, and programmed cell death

www.genome.gov

* Dusek JA, Otu HH, Wohlhueter AL, Bhasin M, Benson, H, et al. 2008 Genomic Counter-Stress Changes Induced by the Relaxation Response. PLoS ONE 3(7): e2576.

At the Movies... *Stress and Epigenetics*

Stress Scale Instruments

- **The Perceived Stress Scale (PSS)**
10-question inventory developed by psychologist Sheldon Cohen (mindgarden.com).
- **The Epstein Stress-Management Inventory (ESMI-i)** is a 28-question inventory for individuals (mystressmanagementskills.com)
 1. Manage Sources of Stress
 2. Prevent or Avoid Stress
 3. Practice Relaxation Techniques
 4. Manage Thoughts

Perceived Stress Scale (PSS)

(Circle): 0 = Never 1 = Almost Never 2 = Sometimes 3 = Fairly Often 4 = Very Often

1. In the last month, how often have you been upset because of something that happened unexpectedly? 0 1 2 3 4
2. In the last month, how often have you felt that you were unable to control the important things in your life? 0 1 2 3 4
3. In the last month, how often have you felt nervous and "stressed"? 0 1 2 3 4
4. In the last month, how often have you felt confident about your ability to handle your personal problems? 0 1 2 3 4
5. In the last month, how often have you felt that things were going your way? 0 1 2 3 4
6. In the last month, how often have you found that you could not cope with all the things that you had to do? 0 1 2 3 4
7. In the last month, how often have you been able to control irritations in your life? 0 1 2 3 4
8. In the last month, how often have you felt that you were on top of things? 0 1 2 3 4
9. In the last month, how often have you been angered because of things that were outside of your control? 0 1 2 3 4
10. In the last month, how often have you felt difficulties were piling up so high that you could not overcome them? 0 1 2 3 4

PSS created by Sheldon Cohen, et. al, Carnegie Mellon University

Perceived Stress Scale Scoring

1. Add up the numbers for questions 1, 2, 3, 6, 9, 10. **Write the total here** _____
1. For items 4, 5, 7, and 8 reverse the numbers (0 = 4, 1 = 3, 2 = 2, 3 = 1 & 4 = 0) and add these up. **Write the total here** _____
3. Add the two totals from steps 1 and 2. **Write total here for Overall Score:** _____

Perceived Stress Level Rating:

WOMEN:

- 0-7 Low
- 8-20 Average
- 21-26 High
- 27-40 Very High

MEN:

- 0-6 Low
- 7-17 Average
- 18-23 High
- 24-40 Very High

Palm the Present Practice

Drop into the body...
and rest the weary mind.

Intervention for clearing
out and managing the

RATS:

- R-umination
- A-nxiety
- T-ransitions
- S-tress

Palm the Present Metacognitive Reflection

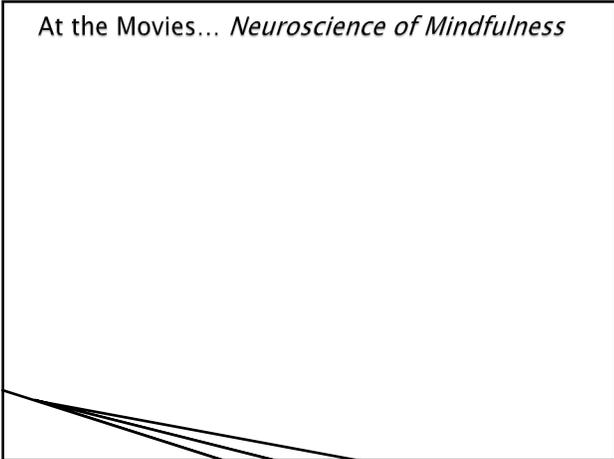
What was your
experience with Palm
the Present?

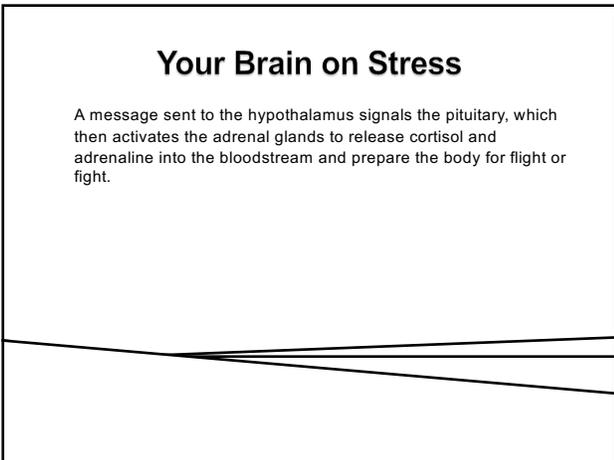
How could you use
this practice with
groups or
individuals?

Brain Basics & Emotional Regulation

- ▶ Visual Brain Model for Patients
- ▶ Mindfulness Module of Brain







Your Brain on Stress

The stress response actually shunts blood flow away from the brain's "thinking" cortex. This more ancient brain system constantly scans the environment and can be "turned on" chronically through repeated stress or memory provoking events.

Prefrontal Cortex Functions Equal Mindful Awareness

- Regulate the Body and Stress Response**
- Attune with Others (attachment/connection)**
- Emotional Balance (neither rigidity nor chaos)**
- Impulse Control (pause, respond not react)**
- Ability to Calm Fears (inhibitory GABA fibers)**
- Insight (self-knowing awareness)**
- Empathy (looking within at one's inner state)**
- Morality (ethics, larger social good)**
- Intuition**
- Selective Attention**
- Emotional Style (Approach or Avoidance)**

Dan Siegel The Brain and the Developing Mind (Chapter 7)

Mindful Eating

*Lead me not into temptation;
I can find the way myself.
—Rita Mae Brown*

Mindfulness Intervention Reduces Cortisol and Abdominal Fat in Obese Women*

- ▶ Psychological stress and elevated cortisol secretion promote abdominal fat.
 - 4-month mindfulness program for stress eating at UCSF
 - Reduced anxiety, improved mindfulness, and reduced stress eating
 - Significant reduction in CAR (cortisol awakening response)
 - Reduced CAR associated with reduction in abdominal fat

◦ *Journal of Obesity*, 2011, Daubenmier, Kristeller, et. al.

Mindfulness-Based Eating Study

- 3-Key Elements of Establishing a Mindful Eating Practice
 - **General mindfulness meditation (breath awareness)**
 - Patients meditated 16 hours over the 7-week study
 - **Eating meditation**
 - **Mini-meditations**
- Results of a 10-week Mindful Eating study (with Duke University)
 - Overall index combining general mindfulness meditation, eating meditation, and mini-meditations were the "best predictor of improvement in relation to binge eating and to weight loss."-- Kristeller
- Increases level of personal control and comfort with food

4-Mindfulness Bite Method

I call on a dream that reminds us to focus on our fingertips, on the shape of our hand, on blood and bone and a thousand nerve endings as we raise an apple to our mouths.
 --Oriah Mountain Dreamer

4-Mindfulness Bite Method

- ▶ This method is known as the S-T-O-P method. Think of it as **STOPPING** for mindfulness. A good start is to use **the first four bites** of any meal to devote your attention to food. Yes, it *is* possible to be mindful of every bite of every meal, but it takes practice.
- ▶ For the next few minutes you will eat a raisin. If that seems like a long time, consider that you will eat this raisin as you have (possibly) never eaten a raisin before.

* This handout is copyrighted by DayOne Publishing in *Discover Mindful Eating* and was modified with authors' permission.

4-Mindfulness Bite Method

- ▶ **S** is the first bite and S stands for **SELECT**. Be purposeful in gathering this bite. You might imagine this is a food you have never tasted before. Select this bite, notice all of the colors, texture, and shapes. Choose a bite that is able to fit in your mouth easily. It is not too small or too big to chew, but just the size to savor the bite.

4-Mindfulness Bite Method

- ▶ **T** is the second bite and T stands for **TASTE**. Your mind is fully on the sensation of eating. With this bite, you notice all the tastes that develop during the bite. Your mind is fully on the sensation of eating. You chew slowly, deliberately, and fully, swallowing with intention only when the food is completely chewed up.

4-Mindfulness Bite Method

- **O** is the third bite and **O** stands for **OBSERVE**. With this bite, allow your mind to travel with this food around your mouth, down your throat and into your stomach. Notice your hunger without anxiety or fear. It is simply hunger. Observe yourself placing the fork down. Become aware of the movement of your hand, arm, and mouth. You are eating with purpose, full of poise and grace.

4-Mindfulness Bite Method

- **P** is the fourth bite and **P** stands for **PAUSE**. With this bite, add an extra pause just before you put the food in your mouth. Then, during the bite, you pause in the middle of your chewing, just for a short moment. And when you're done with the bite, you add yet one more pause before taking the next morsel of food.

Metacognitive Reflection

- **Questions to consider:**
 - How was this experience different from eating raisins in the past? How was the flavor different? How many raisins would you typically eat during this length of time? What has this experience taught you?
 - How could you use the S-T-O-P method with clients? What are ways that you could "frame" this...such as "mindfully slowing down," "paying attention to food," "being curious," etc.

Lunch (or daily meal) Practice

- › **For Today's Lunch (Optional):**
- › Rate hunger level (1-10) before, during and after the meal. What food that will satisfy this hunger?
- › Give yourself permission to order (and eat) as much food as you think will satisfy the body's hunger (as opposed to ordering by your appetite)
- › Intentionally leave some food on the plate.
- › Take three diaphragmatic breaths before eating.
- › Spend the first 5-minutes of your lunch in silence.

Lunch (or daily meal) Practice

- › **Moment by Moment Awareness**
- Awareness of Body (posture, body movement, chewing, hunger, satiety, etc.)
- Awareness of sensations (tastes, textures, smells, sights, sounds, likes, dislikes, neutral)
- Awareness of mind (thoughts, desire, perceptions, judgments, opinions, memories, etc.)

At the Movies... *Big Night & Mindful Eating*

Train the Brain for Calm and Cognition

- Turning on the Parasympathetic Nervous System
- Navy SEALs method for arousal control
- Practice: Diaphragmatic Breath & the 3 Min. Question for Clients

Breathing Awareness

The Mindfulness Movie...*Stress and Mindfulness*

Mindful Breathing Awareness

20-minutes of diaphragmatic breathing produced:

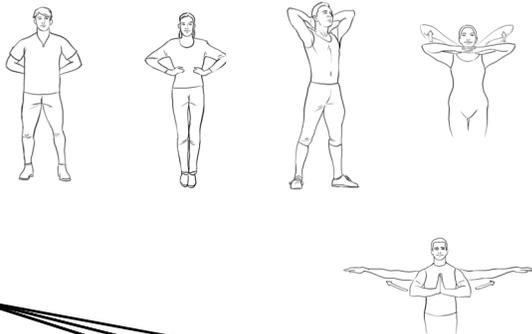
- A reduction of negative feelings
- An increase in neurotransmitter serotonin for improved mood
- A higher concentration of oxygen in the pre-frontal cortex (mindful attention and higher level processing)

International Journal of Psychophysiology 2011, May, Activation of the anterior prefrontal cortex and serotonergic system is associated with improvements in mood and EEG changes induced by Zen meditation practice in novices; Toho University School of Medicine

Mindful Breathing

- Rewiring the Stress Response with **Breath**
 - 20-30 sec. to turn down stress volume
 - 10x increase in oxygen
 - Lower B.P., respiration
 - Increase alpha waves
 - Increase serotonin

5 Regulating Breathing Postures



Teaching Belly Breathing

- 1) Explain the physiology of breathing, and how it turns on the body's relaxation system
- 2) Check where they are breathing by having them put one palm on the chest, one on the belly.
- 3) Demonstrate how to get a fuller belly breath by placing the hands behind the back or behind the neck/head.
- 4) Problem solve how clients can use this each day.

The 3 Minute Question

ARE YOU WORTH THREE MINUTES A DAY
TO CLEANSE YOUR MIND
OF EMOTIONAL CLUTTER?

Pair Belly Breathing with Other Pleasant Activities

- 1) Music
- 2) Walking
- 3) Swimming
- 4) Biking
- 5) Reading
- 6) Eating

Access Mindfulness through Learning Styles

- Help Clients Use Mindful Coping Skills through 9 Unique Learning Styles

- Discover Learning Styles through Hobbies and Favorite Activities
 - **7 Kinds of Smart** by Thomas Armstrong
 - Includes Quick Assessment of Learning Styles

 - **Multiple Intelligences** by Howard Gardner

At the Movies... Where in the Hell is Matt? *Visual/Spatial, Body/Kinesthetic, Hearing*

Tap Mindful Learning Styles

- Language/Verbal and Thinking Oriented

Tap Mindful Learning Styles

- ▶ **Language/Verbal and Thinking Oriented** – likes analyzing, reflecting, meditating, reading, writing, keeping a journal, crosswords, word games, puns, word jokes, speaking, listening or telling stories.
 - **Mindfulness Practices:** Be the Pebble Practice, Prayer, Affirmations, Mindful Study Group, Gratitude Practice, Noticing Strengths, G.L.A.D. Practice, S-T-O-P Stress Grounding Practice.

Tap Mindful Learning Styles

- ▶ **Visual/Spatial Oriented**

Tap Mindful Learning Styles

- ▶ **Visual/Spatial Oriented** – likes museums, art fairs, looking at sunsets, photography, painting, doodling, quilting, knitting, astronomy, motorcycling, bird watching, watching sports, fashion, looking at nature.
- ▶ Learns by visualizing, drawing pictures, coding with color, and avoiding multitasking.
 - **Mindfulness Practices:** Meditate on Image or Object; Sky Gazing, Calming with Nature, Mindful Eating, Mindful Walking, Palm the Present; Notice Pleasantness; G.L.A.D. Practice, S-T-O-P Stress practice.

Tap Mindful Learning Styles

▶ **Hearing/Music/Sound Oriented**

Tap Mindful Learning Styles

- ▶ **Hearing/Music/Sound Oriented**- likes music, concerts, sensitive to sounds, dancing, singing, chanting, playing an instrument, sounds of the ocean waves and nature.
- ▶ **Learns by listening or reading aloud.**
 - **Mindfulness Practices:** Chant; Loving-Kindness Meditation, Affirmations, Singing; Hymns, Playing and sharing meaningful music, nature sounds, S-T-O-P Stress practice.

Tap Mindful Learning Styles

▶ **Bodily/Kinesthetic/Tactile Oriented**

Tap Mindful Learning Styles

- **Bodily/Kinesthetic/Tactile Oriented** - likes dancing, swimming, walking, yoga, stretching, hot baths, jogging, hiking, biking, knitting, weight lifting painting, sculpting, jewelry making, scrap-booking, competitive and non-competitive sports
- Learns through movement and touch, hands on, acting out stories, and doing (not just hearing or seeing).
 - **Mindfulness Practice:** Palm the Present Moment (Sense Grounding) Mindful Walking, Mindful Eating, Tai Chi, Dancing, Yoga, Breathing practice, Running, Jogging, S-T-O-P Stress practice.

Tap Mindful Learning Styles

- **Mathematical/Science/Logical Oriented**

Tap Mindful Learning Styles

- **Mathematical/Science/Logical Oriented** - likes sudoku, good with numbers, reading, computer programming, analyzing, going to museums, understanding how things work, science, learning, chess, games of strategy.
 - **Mindfulness Practice:** Be a Smart Stress Avoider, Gratitude, G.L.A.D. Practice, S-T-O-P practice, Noticing Favorite Things Grounding Practice, Bear Meditation.

Tap Mindful Learning Styles

› Social/Interpersonal/Relationship Oriented

Tap Mindful Learning Styles

› Social/Interpersonal/Relationship Oriented – likes friends, committed relationships, volunteering, book clubs, social gatherings, church activities, planning or going to parties, empathizing, teaching, public spaces, team sports.

- **Mindfulness Practice:** Religious or spiritual groups, Dialogue with others, Prayer, Singing, Support Groups, Sharing Gratitude and G.L.A.D., Volunteering.

Tap Mindful Learning Styles

› Reflective/Intrapersonal/Spirituality Oriented

Tap Mindful Learning Styles

- **Reflective/Intrapersonal/Spirituality Oriented**
 - likes learning about one self, praying, meditating, reading and reflecting, thinking about purpose and gratitude, going to lectures, spiritual/religious rituals, solitude, seeking out silence, nature, and wisdom.
 - **Mindfulness Practice:** Meditation, Journaling and writing, mindfulness with self and others, Reading, Prayer, Affirmations, Gratitude, Solitude with Nature, Silence, G.L.A.D. practice; B.L.I.S.S. practice.

Tap Mindful Learning Styles

- **Natural World Oriented**

Tap Mindful Learning Styles

- **Natural World Oriented** - likes hiking, hunting, fishing, boating, the beach, camping, sailing, archaeology, natural shapes and objects, sitting in the park, farmers markets, and good at finding way around new locations.
- **Mindfulness Practice:** Sky Gazing Practice, Noticing Nature, Mindful Walking or Hiking, Gratitude, G.L.A.D. Practices, Gardening, S-T-O-P practice.

Tap Mindful Learning Styles

- Existential-Meaning Oriented

Tap Mindful Learning Styles

- **Existential-Meaning Oriented** - likes learning, introspection, expressing ideas rather than rote learning, philosophy, dialogue, reading, prayer, meditation, rituals and ceremonies, transcendent thinking and deeper meaning.
 - **Mindfulness Practice:** Sky Gazing, Noticing Nature, Mindful Walking or Hiking, Gratitude, G.L.A.D. Practices, Loving-Kindness Affirmation, S-T-O-P practice, meditation.

Tap Mindful Learning Styles

- Learning style online assessments:
- **The Rogers Indicator of Multiple Intelligence**
- <http://www.personal.psu.edu/bxb11/MI/rimi2.htm>
- **Edutopia.org**
- <http://www.edutopia.org/multiple-intelligences-assessment>

Armstrong, Thomas, *7 Kinds of Smart: Identifying and Developing Your Multiple Intelligences*, Plume, 1999

Gardner, Howard, *Multiple Intelligences*, Basic Books, 2006

Metacognitive Reflection

BE A LEARNING STYLE DETECTIVE

- Each person dialogue with a partner identify your partner's learning style.
- What style or blend of styles are present?
- Share a case study: How have you used learning styles with a client in the past, or how you might in the future?

Armstrong, Thomas, *7 Kinds of Smart*, Plume, 1999

Expanding the Mindfulness Vocabulary

- Mind Wandering
- Practice: Expanding the Mindfulness Vocabulary

The secret of health for both mind and body is not to mourn for the past, worry about the future, or anticipate troubles but to live in the present moment wisely and earnestly.
—The Buddha

William James

"...The power of voluntarily bringing back a wandering attention, over and over again, is the very root of judgment, character, and will...But it is easier to define this idea than to give practical directions for bringing it about."

—*The Principles of Psychology, 1890*

A Wandering Mind Is an Unhappy Mind

- People's minds wander an average of 47% of the time
- Mind wandering (state of not being present) is ubiquitous across all activities. Mind wandering is a predictor of feelings of unhappiness.
- It's not the activity, but how present one is that increases happiness

A Wandering Mind Is an Unhappy Mind, Matthew A. Killingsworth and Daniel T. Gilbert, *Science* 12 November 2010: 330 (6006), 932.

Mind Wandering and Telomeres

Mind Wandering and Aging Cells

- Telomere length is a measure of biological aging and a correlate of severe stress.
- Individuals reporting high mind wandering had shorter telomeres.
- A present attention state may produce cell longevity.

**Clinical Psychological Science* Jan 2013 vol. 1 no. 1 (75-83)

At the Movies... *Stress, Mind Wandering, and Telomeres*

Mindfulness and Students

2-Weeks Mindfulness Training Course was found to:

- 1) Improve GRE Reading comprehension scores
- 2) Improve working memory capacity
- 3) Reduce distracting thoughts during completion of the GRE test.

Researchers found mindfulness was “an effective and efficient technique for improving cognitive function.”

Mindfulness Training Improves Working Memory Capacity and GRE Performance While Reducing Mind Wandering, Psychological Science 2013 24:5 pp. 776-781 Michael Mrazek, Michael Franklin, et. al.

Expanding the Mindfulness Vocabulary - Traditional Terms

- ▶ **Sati**- bare awareness of the sense doors, thoughts, and emotions
- ▶ **Sampajanna**- clear knowing; understanding of impermanence
- ▶ **Hesychasm**- quieting and stilling the mind
- ▶ **Nalu**- in the flow; not too fast, not too slow



Charles Tart

“The trouble with ordinary reality is that a lot of it is dull, so we long ago decided to leave for somewhere better.”

—*Living the Mindful Life*

Fritz Perls

“Boredom is simply lack of attention.”

Climbing Stairs

I climb downstairs to the first floor and I think of ladders...
The one that Jacob saw with the angels going up and down...
The one rising out of the kiva...
The one against the burning building on the evening news.

Help me to not be so afraid of the heights and depths!
Help me to concentrate on the connection between the two:
Those humble steps, those one-after-the-other steps,
which are the only ones I really can take.

Help me to love a slow progression, to have no prejudice
that up is better than down or vice versa.
Help me to enjoy the in-between.

—Gunilla Norris from *Being Home*

P.A.I.R. U.P. for a Mindful Fit with What Is In Your Life

- P–Present Moment Participation
- A–Attuned Acceptance
- I–Intentionality; Conscious choices
- R–Reflection, insight; ethics and values

- U–Understanding of Suffering; compassion
- P–Purposeful Partnership (from 'Me' to 'We')

Exercise: Expanding the Mindfulness Vocabulary

Brainstorm other words or phrases that can be used to describe mindfulness.

How will this broader vocabulary help you to meet clients where they are?



Mindful Self-Care

‣ 6 Collaborative and Regulatory Mindful Self-Care Skills

- Pleasant Activities
- Healthy Eating and Nutrition
- Exercise and Movement
- Sleep
- Social Network
- Managing Weapons of Mass Distraction

Pleasant Activities

- ▶ Identify simple, realistic and achievable pleasant activity to implement.
- ▶ Don't reinvent the wheel; use activities that have worked in the past
- ▶ Select date and time to do activity.
- ▶ Have backup time to set the pleasant activity if it does not get completed.
- ▶ Noticing Pleasantness is also a pleasant activity

Control Your Depression by Peter Lewinsohn

Healthy Eating & Nutrition

Identify eating patterns and strategies

- ▶ Identify meal skipping or mindless eating
- ▶ Protein to help with mood, attention and motivation
- ▶ Drugs and alcohol patterns
- ▶ Role of caffeine with depression/anxiety
- ▶ Identify: simple, realistic and achievable goals

Healthy Eating & Nutrition

- ▶ Foods for attention and motivation
 - Neurotransmitters **Norepinephrine** and **Dopamine**: synthesized from tyrosine; sources include almonds, lima beans avocados, bananas, dairy, pumpkin and sesame seeds
- ▶ Foods for calm, mood regulation, thought flexibility
 - Neurotransmitter **Serotonin**: synthesized from tryptophan; sources include brown rice, cottage cheese, meat, turkey peanuts, and sesame seeds
- ▶ Foods for thought and memory
 - **Acetylcholine** (not made from amino acids): Choline belongs to the B family of vitamins is found in lecithin. Foods include salmon, egg yolks, wheat germ, soybeans, organ meats, and whole wheat products.

At the Movies...23 ½ Hours: *What is the Single Best Thing?*

Empty box for notes with a decorative line at the bottom left.

Seven horizontal lines for writing.

Exercise and Movement

- ▶ Identify medically appropriate exercise: type and amount
- ▶ Set start date/start time
- ▶ Start small
- ▶ Utilize Factor "P" -William Morgan and Purposeful Physical Activity
 - Adding Factor P produced 100% adherence to an exercise program
 - Walking the dog; walking or biking to work; creating a garden or path
- ▶ Exercise produces a substance known as "brain-derived neurotrophic factor," or BDNF, which encourages neurons to grow and make connections and is associated with learning and emotional control.*
- ▶ Exercise stimulates the production of a host of neurotransmitters and hormones that safeguard against anxiety, depression, ADHD, dementia, aging, and obesity.*

* Spark: *The Revolutionary New Science of Exercise and the Brain*— James Ratey and Eric Hagerman New York: Little, Brown and Co., 2008

<http://www.caffeineinformer.com/death-by-caffeine>

Empty box for notes with a decorative line at the bottom left.

Seven horizontal lines for writing.

Social Network

- ▶ Identify different segments of one's social network:
 - Work, family, friends, caregivers, church/spiritual, hobbies
- ▶ Address how to build one's network
- ▶ Address how to utilize one's network
- ▶ Visualize or mentally rehearse social interactions

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Seven horizontal lines for writing.

Sleep Hygiene

- Brain and Sleep: The Glymphatic System
- How much sleep do you need? How much sleep do you get? What is your daily sleep deficit?
- Factors of life style affecting sleep
 - Technology, time, etc.
- Medical factors affecting sleep
- Problem solving sleep issues, even bad mattresses
- Developing a healthy sleep ritual

* 2011 Study shows that chronic sleep problems commonly found in anxiety and depression can produce more negative thoughts and memories.

* *Sleep and Emotional Memory Processing*, Matthew Walker; Els van der Helm, *Sleep Medicine Clinics*, Vol. 6, No.1, pages 31–43; March 2011

Weapons of Mass Distraction

- Setting Technology Boundaries and Slowing Down
- Face-to-Face Contact Wires Brain
- Practice: Exploration of Time Spent with Technology

Is Technology Rewiring Our Brains?

- Less Time in Nature
- Loss of Face-to-Face Communication
- Expectation of Speed and Instant Response Time
- Working Across Time-Zones
- Sleep Deficits

Drop in Empathy in College Students

Study by U. of Michigan Institute, Association for Psychological Science, Annual Mtg, 2010
 14,000 students analyzed over 30 years
 Biggest drop in empathy occurred after year 2000
 Today's college students display **40% less empathy than students of 20 or 30 years ago.** (measured by standard tests of personality traits and combined results of 72 different studies)

Potential Causes: Increase in media exposure; violent media; social media; rewiring of empathic brain; quicker response time and less reflective time for pausing.

Effects of Hyper-Networking in Teens

Hyper-networking in Teens defined as: more than 3 hours a day on social networking sites (11.5% of students)
 This group has higher chance of stress, depression, suicide, poor sleep, poor academics, TV watching and parental permissiveness.
 62% more likely to have tried cigarettes
 79% more likely to have tried alcohol
 69% more likely to binge drink
 84% more likely to use illicit drugs
 94% more likely to have been in a physical fight
 69% more likely to have had sex and 60% were more likely to have had 4 or more sexual partners.

Causes: Increase in media exposure; violent media; social media; rewiring of empathic brain; quicker response time and less reflective time for pausing.

Technology Intake Questions

- ▶ On average, how much time each day do you...
 - ...use technology (at work and at home)?
 - ...engage in uninterrupted face-to-face time with significant others?
 - ...bring work home?
 - ...spend around nature or noticing nature?
 - ...exercise, walk or do a favorite activity?
- ▶ If problems sleeping, do you...
 - ...look at TV, phone, or a computer before sleep?
 - ...stay awake worrying about pressures and deadlines?
 - ...have few nighttime boundaries with technology?

Mindful Exploration of Time Spent Copyright © 2014 by Donald Altman

Time Spent Daily (average)	Self-Care: Pleasant activity, hobby, or relaxation	Face-to-Face without interruption: partner and friends & family	Technology Not at work TV, CD, Cel, DVDs, Internet, e-mail, games, etc.	Exercise: and other physical activity	Appetite: Food and meals	Craving and Desire: Browsing and shopping	Travel and Scheduling: Planning, organizing and transitions	Reflection Contemplation: Exploration thought, personal growth	Sleep	Work
15 min. or less										
15 min. to ½ hr.										
½ hour to 1 hour										
1-2 hours										
2-3 hours										
3-4 hours										
4-5 hours										
6+ hrs.										
7+ hrs.										
8+ hrs.										
9+ hrs.										
10+ hrs.										

Metacognitive Reflection

- ▶ Sociologist William Ogburn coined the term “culture lag”—the length of time it takes us to adapt to new technology in our family, society, and culture.
- ▶ Reflect on the following questions:
 - ▶ What happens when we accept technology without question?
 - ▶ How can clients be made more aware of how technology might be affecting their family and social interactions?
 - ▶ What kinds of healthy boundaries can be a starting point when working with clients?

Core Mindfulness Practice

WHERE ARE YOU RIGHT NOW?

3-Part Practice

BODY as it is
(Rooted, Posture)

BREATH as it is
(Physical Contact Point)

MIND as it is
(Non-judging Labeling)

Embracing B.L.I.S.S. in This Moment

- ▶ Importance of Recognizing Ordinary Good and Decent Things to turn away from anxiety, depression, or pain.
- ▶ Practice: Savoring the Ordinary
- ▶ Practice: Embracing B.L.I.S.S.

Mother Teresa's Mindfulness Prescription

My daughters, what are these drops of oil in our lamps?

They are the small things of daily life:

faithfulness,
punctuality,
small words of kindness,
a thought for others,
our way of being silent, of looking,
of speaking, and of acting.

These are the true drops of love.

Be faithful in small things because it is in them that your strength lies.

Savoring the Ordinary Study

- ▶ Participants chronicled both an "Ordinary" daily event and "Extraordinary" Event
 - Photos and writing about the day
- ▶ Subjects predicted which they would most interesting to review in the future
- ▶ Majority predicted the Extraordinary Event
- ▶ 3 Months Later, Subjects Reviewed Both Events:
 - Individuals greatly underestimated the ordinary day and what they could gain from it.
 - Subjects found the Ordinary Event more meaningful and interesting than the Extraordinary one.

A "Present for the Future: The unexpected value of rediscovery," Psychological Science, published online, August 29, 2014; Zhang, et. al.

Practice: Savoring the Ordinary

For this practice, you will write down using the categories below, 1–3 “small things,” as Mother Teresa referred to them—to savor for the next 3 minutes.

- 1) Identify One Small Thing from This Week
 - Things cherished or appreciated, like reading the paper, coffee, giving a hug or kiss to someone special, noticing the feel of the water in the shower, etc.
- 2) Observe One Ordinary Good Thing in Your Surroundings
 - Take a mental snapshot of how you’re sitting in a nice chair, watching your kids play, interacting with a friendly person, or seeing the sunlight coming in through a window.
- 3) Remember One Kindness from Today
 - Did you help someone today? Did someone help you? Bring to mind that ordinary (yet special) word of encouragement you shared with another or vice versa. Remember even the smallest act of kindness—a pat on the back, a smile, etc.

B.L.I.S.S. Practice

B–Be in Your Body

Take a deep breathe and settle into your chair, into the floor if you are lying, and if you are standing allow your muscles to release and feel your feet firmly on the ground.

Find your center – this is where ever you feel centered within your body. Generally the center of levity is at heart center and the center of gravity is an inch or two below the navel. Perhaps your center is somewhere between these two points. There is no wrong place as long as it resonates within you. The important thing is that you feel centered at your core being. Connect with a sense of being home within your body.

* B.L.I.S.S. Practice created by Maria Brignola, BC-DMT, Board Certified Dance Movement Therapist

B.L.I.S.S. Practice

L–Listen with Love

Allow yourself to soften and become receptive so you can listen openly to the body’s messages. Breathe deeply and allow the warmth of your heart to radiate throughout your whole body. Saturate your cells, tissues, muscles, organs with light and love.

And listen.

B.L.I.S.S. Practice

I-Imagine

Imagine being peaceful or at ease. Imagine a healing symbol or image. This could be your spiritual image, a favorite hiking trail, a rainbow, your living space, or a loved one. Breathe this soothing image into your body mind. Allow it to be imprinted deeply within. Continue to listen for any messages from your body.

You can also visualize a time when you felt safe, or imagine what it would be like to be without anxiety, depression, or pain. Let yourself sit with this feeling.

B.L.I.S.S. Practice

S-Sense

While maintaining your soothing image, sense your body internally. Make note of body sensations or any changing images or feelings you may have as you perceive within. Sense the wisdom of the body. Do not force or judge. Just sense the peaceful calm of your image within your body.

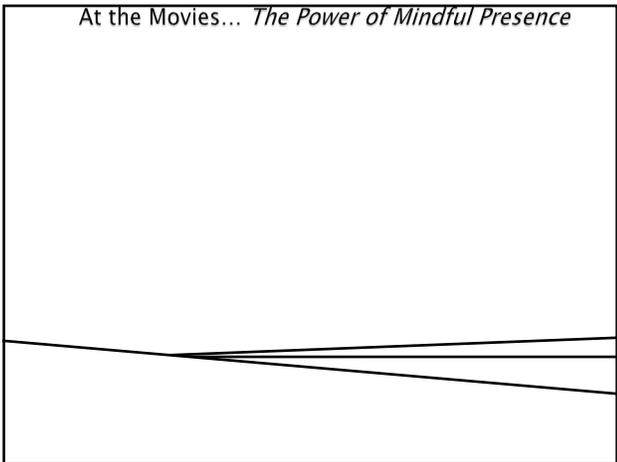
B.L.I.S.S. Practice

S-Sacred

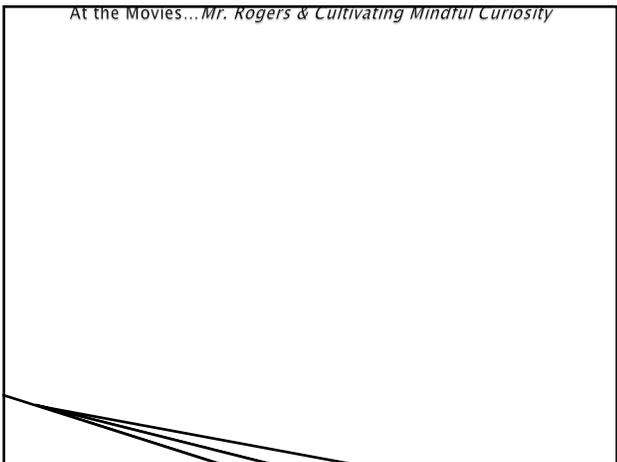
Continue to breathe into your body maintaining an awareness of your image and internal sensations. Continue to listen and connect to the wisdom of your body. Feel a sense of the Sacred both within and surrounding you.

Expand your gaze, letting it penetrate the beauty, preciousness, and design of all things—man-made and natural. Bask your sacred self and all that is around you in the warm glow of gratitude, calm and serenity.

At the Movies... *The Power of Mindful Presence*



At the Movies... *Mr. Rogers & Cultivating Mindful Curiosity*



Advanced Mindfulness Toolbox for Rewiring the Brain

Rewiring Anxiety, Depression, Pain, PTSD, and
Stress

Welcome!

Donald Altman

Mindfulness Training • Consultation • Speaking

Today's Roadmap

A Day of Mindfulness

- Breathing Practice
- Palm the Present Moment

Stories for Tapping into and Identifying Strengths

- Strengths Intervention for Depression
- 24 Core Strengths
- Practice: Sharing a Story of Strengths

Focusing the Mind for ADHD and Stress

- Integrate Breath with Focus on Word or Image
- Practice: Be the Pebble

Full Disclosure: Materials that are included in this course may include interventions and modalities that are beyond the standard practice of mental health professionals. As a licensed professional, you are responsible for reviewing the scope of practice, including activities that are defined in law as beyond the boundaries of practice in accordance with and compliance with your professions standards.

Today's Roadmap

Mindfulness for Relapse and Cravings

- Impulse Control Craving Control with Inner-Outer Grounding
- Practice: S-T-O-P Stress Technique

Mindfulness for Chronic Pain

- Introduction to the Body Scan
- Changes Perception of Pain
- Practice Surf the Body (Body Scan)

Mood Management Tools for the Terminally Serious

- Using Selective Memory to Shift Moods
- Practice: Savoring and Being a Benefactor

Today's Roadmap

Mindfulness Walking and Nature

- Attention Restoration Theory
- Practice: Sky Gazing and Ground Surfing
- Harnessing Gratitude

- Benefits for Depression and Why Gratitude Is Good
- Practice: Take C.A.D. Snapshots to Shift Awareness and Mood
- Loving-Kindness Affirmation

- Fredrickson's Broaden and Build Theory
- Compassion Research and Priming for Safety
- Practice: Loving-Kindness

Today's Roadmap

Mindful Cycles of Life and Change

- Acceptance of The Big Picture
- Film Clip and Closure

Breathing with Deep Peace

Deep peace
 Of a running wave to you
 Deep peace
 Of the flowing air to you
 Deep peace
 Of the quiet earth to you
 Deep peace
 Of the shining stars to you
 Deep peace
 Of the gentle night to you
 Moon and stars
 Pour their healing light on you
 Deep peace to you

A Day of Mindfulness Reflection

- ▶ After a day of mindfulness, what did you notice last night, if anything different?
- ▶ Did you vary from your auto-pilot routine in any way this morning?
- ▶ Did you eat food with a different awareness after yesterday's class or this morning?
- ▶ How did mindfulness change how you related to someone in your life?

Core Mindfulness Practice WHERE ARE YOU RIGHT NOW?

3-Part Practice

BODY as it is
(Rooted, Posture)

BREATH as it is
(Physical Contact Point)

MIND as it is
(Non-judging Labeling)

Palm the Present Practice

Drop into the body...
to rest the weary mind.

Intervention for
clearing out the **RATS**:

- R-umination
- A-nxiety
- T-ransitions
- S-tress

Good for spatial, tactile, visual learning styles

Tapping Stories to Identify Strengths for Depression & Building Relationships

- ▶ Strengths Intervention for Depression
- ▶ 24 Core Strengths
- ▶ Practice: Sharing a Story of Strengths

The Story Brain

History & Story Brain

Relationship & Resources Brain

Environmental Brain (Inner Outer Stress)

Body Brain

ARAS (Archive for Research in Archetypal Symbolism) *The Book of Symbols*, Taschen, 2010

Story Attunes and Attaches

- Stories can redefine problems and organize us toward feeling states.
- Stories can stimulate ideas and motivation.
- Find and tell stories that express strengths (even a difficult one).
- What story supports safety and calm?
- Story sharing make sense of our experiences and shapes our memory.

Healing the Mind through the Power of Story: The Promise of Narrative Psychiatry by Lewis Mehl-Madrona, Bear and Co., 2010

The Strengths Book: Be Confident, Be Successful, and Enjoy Better Relationships by Linley, Willars, and Biswas-Diener, CAPP Press.,2010

Lewis Carroll

"I can't believe that!" said Alice.

"Can't you?" the Queen said in a pitying tone. "Trying again: Draw a long breath, and shut your eyes."

Alice laughed: "There's no use trying," she said; "one can't believe impossible things."

"I daresay you haven't had much practice," said the Queen. "When I was younger, I always did it for half an hour a day. Why, sometimes, I've believed as many as six impossible things before breakfast."

—from *Through the Looking Glass*

Metacognitive Reflection

- Explore the following questions:
- What stories (books, films, etc/) support safety and calm?
- What stories support hope or resilience that might resonate with clients?
- How can clients become more aware of how they are using their stories?

Online Intervention

- Subjects who used the 3 exercises below for a week, showed significantly reduced depressive symptoms and increased happiness vs. the placebo
 - "Use Your Strengths" exercise
 - Gratitude Visit
 - The Three Blessings Exercise
- Effects lasted for 6 months with the Strengths exercise

Seligman, M.E.P., Rashid, T., & Parks, A.C. (2006). *Positive psychotherapy*. *American Psychologist*, 61, 774-788.

Use Your Strengths Exercise

- ▶ Subjects take the VIA-IS strengths questionnaire to assess their top 5 strengths, and think of ways to use those strengths more in their daily life.
- ▶ <http://www.viacharacter.org>
- ▶ Free strengths survey takes 15 minutes.
- ▶ Research:
 - <http://www.viacharacter.org/www/Research/Research-Findings#nav>

Finding Strengths through Awareness of One's Daily Story

Share your story of coming to this workshop with another. Include such things as your *history, stressors, moods and thoughts, body, habits, and centering rituals.*

The listener listens without interruption, and with empathy

- 1) The listener identifies the strengths they hear in the story and then reflects **these back to the storyteller.**
- 2) After hearing your strengths, tell your partner what it was like for you to hear your strengths. (affirming, rewarding, etc.)
- 3) After both partners share their story and hear their strengths, discuss what it was like to connect through the lens of strengths?

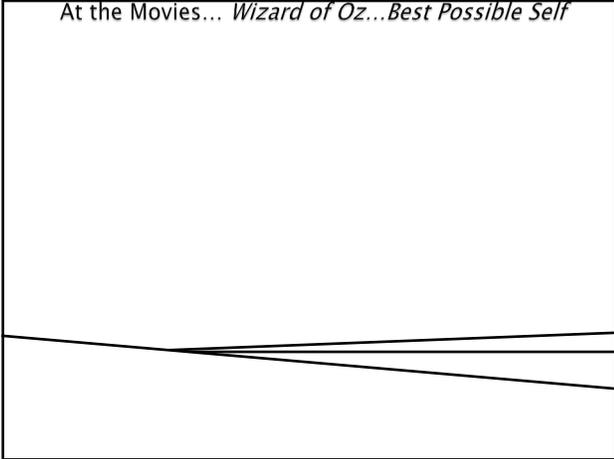
Writing "Your Best Possible Self" as a Trauma Intervention

2 studies examined the effects of writing down the story of "one's best possible self" as opposed to journaling about a trauma.

- *The "best possible self" group showed a significant increase in mood and happiness levels, and health benefits when compared to the trauma writing group.*

Personality and Social Psychology Bulletin, 2001, King Lyubomirsky, (2007) The How of Happiness

At the Movies... *Wizard of Oz...Best Possible Self*



Letting Joy Guide You Toward "Your Joyful Future Self"

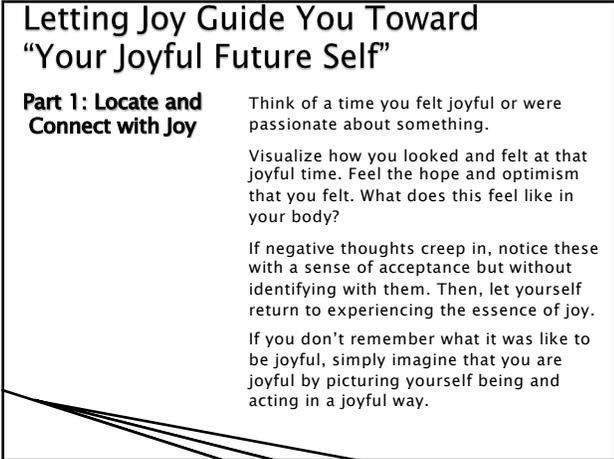
Part 1: Locate and Connect with Joy

Think of a time you felt joyful or were passionate about something.

Visualize how you looked and felt at that joyful time. Feel the hope and optimism that you felt. What does this feel like in your body?

If negative thoughts creep in, notice these with a sense of acceptance but without identifying with them. Then, let yourself return to experiencing the essence of joy.

If you don't remember what it was like to be joyful, simply imagine that you are joyful by picturing yourself being and acting in a joyful way.



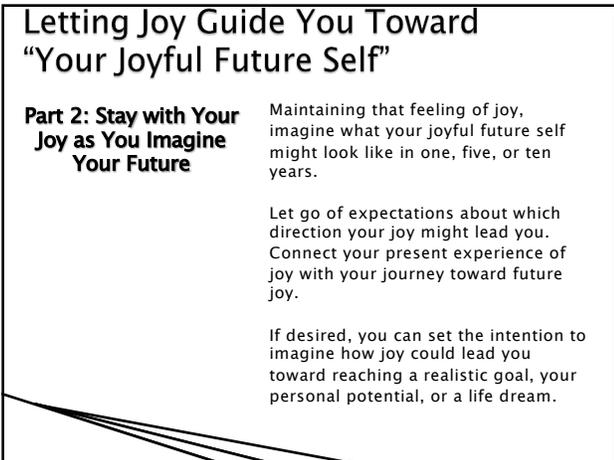
Letting Joy Guide You Toward "Your Joyful Future Self"

Part 2: Stay with Your Joy as You Imagine Your Future

Maintaining that feeling of joy, imagine what your joyful future self might look like in one, five, or ten years.

Let go of expectations about which direction your joy might lead you. Connect your present experience of joy with your journey toward future joy.

If desired, you can set the intention to imagine how joy could lead you toward reaching a realistic goal, your personal potential, or a life dream.



Letting Joy Guide You Toward "Your Joyful Future Self"

Part 3: Visualize and then journal

*For 10 minutes, visualize
and write how your Joy
guides you forward.*

- For 10 minutes, visualize, then write the story of how joy helped you move toward your future.
- Notice character strengths that accompanied your joyful self. How did these help you on your journey to your future?
- Each week, re-visualize how joy moves you toward being your best future self. Fill in missing steps that help you reach your best potential future.
- Remember- your future self is an expression of the joy you feel *now*. Don't get too attached or worried about a future outcome.

Reflections for Clients on "Your Joyful Future Self"

- How did finding your joy help you to think differently about the future that you create?
- How did this practice help you connect with or think about your strengths?
- How can connecting with joy in the here and now assist you in the present and the future?

Focusing the Mind for ADHD & Stress

- ▶ Integrate Breath with Focus on Word or Image
- ▶ Practice: Be the Pebble

Weapons of Mass Distraction: How Much Screen Time?

- The average adult spends over 5 hours a day watching screens.
- 8-18 year-olds devote an average of 7 hours and 38 minutes to using entertainment media across a typical day*
 - This equals more than 53 hours a week).

* *Generation M2: Media in the Lives of 8- to 18-Year-Olds*; Kaiser Foundation, Jan. 2010
<http://kff.org/other/event/generation-m2-media-in-the-lives-of/>

Loss of Emotional and Facial Cues

- Preteens were tested for their ability to recognize non-verbal emotion and facial cues
 - Subjects were low in ability to identify emotions
- Subjects spent five days at a camp with only face-to-face interactions and without screens.
- Recognition of nonverbal emotion cues improved significantly more than that of the control group for both facial expressions and videotaped scenes.

Five days at outdoor education camp without screens improves preteen skills with nonverbal emotion cues; *Computers in Human Behavior*, 39, 2014

Multi-Tasking and Focus in Students

Middle, high school, and college students were asked to "study something important" for 15 minutes. Results found:

- "On task" behavior declined after just 2 minutes.
- Only 65% of the time was spent studying.
- Multi-tasking while learning produced more shallow understanding and poor memory of learned material.
- Student using Facebook had lower GPAs than those who avoided it during the task. *

* *Facebook and texting made me do it: Media-induced task-switching while studying*; Larry Rosen, *Computers in Human Behavior*, Vol. 29:3, pp. 948-958, May 2013.

Be the Pebble Centering Practice

- Meditation and ADHD
 - ADHD symptoms in middle school children with 2x daily practice
 - After three months, researchers found over 50 percent reduction in stress and anxiety and improvements in ADHD symptoms

*online journal Current Issues in Education, Dec. 2008

At the Movies... *For the Love of the Game*

Guidelines

- If you need to change position, do so with mindful awareness
- Time yourself for 5, 10, or 15 min. 1x a day, or 2x daily if desired.
- When finished, stop repeating the word and sit silently for a minute or two before opening your eyes.

Choose a Calming Word or Image

- Find a quiet surrounding
- Sit up, place 15% of attention on the breath, eyes closed
- Gently pay attention to the calming word—don't force it
- When sensations or thoughts come, know that this is normal. Simply favor your word or image over other thoughts or feelings.
- If any emotion or feeling gets so strong that you can't focus on the word, just sit and breathe. Your mind will be drawn to the feeling, and you can wait until it lessens or leaves. Then return to the word/image. If any feeling is too hard to tolerate, open your eyes and rest.

Mindfulness for Relapse and Cravings

- ▶ Impulse Control Craving Control with Inner-Outer Grounding
- ▶ Practice: S-T-O-P Grounding and Emotional Regulation Technique

Mindful Acceptance of Cravings

- Attention that brings mindful acceptance to cravings breaks the maladaptive cycle of desire by helping people mentally disengage from ongoing cravings.
- Acceptance lets people observe ongoing cravings as transient events that will eventually fade, rather than by trying to suppress them.
- Mindful attention acts as a brake between urge and reaction.

Appetite. 2010 Aug;55(1):160-3. *Coping with food cravings*, Alberts, Mulken, Smeets, & Thewissen

Mindfulness-Based Relapse Prevention (MBRP)

- More effective than AAA and Psychoeducational follow-up
- Urges and cravings are precipitated by psychological or environmental stimuli.
- Ongoing cravings may erode the client's commitment to maintain abstinence as desire for immediate gratification increases
- Build mindful awareness of relapse episodes, dreams, or fantasies to identify situations that make coping difficult.
- Urge Surfing Techniques helps to manage urges and cravings. It replaces the desire for the urge to go away with a sense of curiosity and interest in the experience.

<http://www.mindfulness.org.au/urge-surfing>

Alcohol Research & Health . Relapse Prevention: Mary E. Larimer, Ph.D., Rebecca Palmer, and G. Alan Marlatt, Ph.D.

Interrupt Craving with S-T-O-P Stress Grounding Practice

In the next minute, you could...
S-T-O-P for Awareness

- Transitions*
- Anxious Thoughts*
- Rumination*
- Reactivity*
- Craving and Urges*

*S-T-O-P Stress Grounding Practice from *The Mindfulness Toolbox* by Donald Altman

Interrupt Craving with S-T-O-P Stress Grounding

Uses All Kinds of Grounding:

PHYSICAL (Focus on Body)

MENTAL (Observe Emotions or Note things in Environment)

SOOTHING (Use Senses to Focus on Favorite Color, Sound, Texture, etc.)

From: *Seeking Safety* by Susan Najavits

S-T-O-P Stress Grounding Practice

S- STAND and SLOW DOWN
Take two or three calming breaths.

PHYSICAL GROUNDING

The Mindfulness Toolbox by Donald Altman

S-T-O-P Stress Grounding Practice

S- STAND and SLOW DOWN
Take two or three calming breaths.

T- TUNE IN to the body.
*Scan from toes to head. Breathe into
into tension, Name Emotion and let it
go. Let thoughts go. Breathe it out.*

PHYSICAL & MENTAL
GROUNDING

The Mindfulness Toolbox by Donald Altman

S-T-O-P Stress Grounding Practice

S- STAND and SLOW DOWN
Take two or three calming breaths.

T- TUNE IN to the body.
*Scan from toes to head. Breathe into
into tension, Name Emotion and let it
go. Let thoughts go. Breathe it out.*

O- OBSERVE surroundings.
*Find novel or pleasant things
(colors, shapes, sounds, etc.)*

SOOTHING GROUNDING

The Mindfulness Toolbox by Donald Altman

S-T-O-P Stress Grounding Practice

S- STAND and SLOW DOWN
Take two or three calming breaths.

T- TUNE IN to the body.
*Scan from toes to head. Breathe into
into tension, Name Emotion and let it
go. Let thoughts go. Breathe it out.*

O- OBSERVE surroundings.
*Find novel or pleasant things
(colors, shapes, sounds, etc.)*

**P- PREPARATION, POSSIBILITY and
POTENTIAL** from Pre-frontal Cortex. *Look at how to go
forward right now—not reactively, but with choice.*

The Mindfulness Toolbox by Donald Altman

S-T-O-P Stress Grounding Practice

1) Journal Your Experience of the S-T-O-P Stress Pause Practice.

What did you notice?

How could this be useful for you or others?

How could you use this with clients?

2) Discuss your findings with others.

Mindfulness for Chronic Pain

- ▶ Introduction to the Body Scan
- ▶ Changes Perception of Pain
- ▶ Practice: Surf the Body

Pain Reduction

- Four 20-min. sessions of mindfulness meditation reduced pain unpleasantness by 57% and pain intensity by 40% *

- Engages multiple brain mechanisms that alter the subjectively available pain experience.

* "Brain Mechanisms Supporting the Modulation of Pain by Mindfulness Meditation," The Journal of Neuroscience, 6 April 2011, 31(14): 5540-5548

Body Scan

- Non-judging awareness and acceptance with the **Body Scan**
 - Used in Mindfulness Based Stress Reduction (MBSR) and
 - Mindfulness Based Cognitive Therapy for Depression (MBCT)

Body Scan Metacognition

How can the Body Scan be part of a daily practice?

What obstacles could get in the way?

What would be the best time and place to incorporate the Body Scan into your day?

How could you adapt this practice?

How will you know if the Body Scan is being effective?

Lunch (or daily meal) Practice

- › **For Today's Lunch (Optional):**
- › **Entering the meal**, notice any emotions or tension. Breathe or use Sense Grounding to let these go.
- › Notice the type of food your body is hungry for and order as much as will satisfy this hunger.
- › From time to time, put down the utensil and take a breath break between bites.
- › **Leaving the meal**, think about how you are letting go of the meal and transitioning to your next experience.

Lunch (or daily meal) Practice

▶ Moment by Moment Awareness

- Awareness of Body (posture, body movement, chewing, hunger, satiety, etc.)
- Awareness of sensations (tastes, textures, smells, sights, sounds, likes, dislikes, neutral)
- Awareness of mind (thoughts, desire, perceptions, judgments, opinions, memories, etc.)

At the Movies... *Big Night*

Mood Management Tools for the Terminally Serious

- ▶ Biochemistry of Laughter & Laughter in Therapy

Mindful Laughter

Humor is tragedy plus time.

—Mark Twain

*A merry heart doeth good like
medicine.*

—Proverbs 17:22

At the Movies... *The Chocolate Factory with Lucy*

At the Movies...Merci by Rabineau

Why Laughter in Therapy?

- Laughter or a joke can help overcome terminal seriousness
- Humor breaks individuals out of negative mindsets in an unthreatening way and helps gain a new perspective.
- Laughter has been shown to be inconsistent and incompatible with anxiety and fear
- Invokes creates new internal imagery and a more open, flexible, playful and experimental state of mind*

Steve Andreas, author, *Transforming Your Self and Transforming Negative Self-Talk*

Mindful Laughter Benefits

- The stress hormones cortisol, dopac, and epinephrine decreased after the volunteers watched funny movies.
- Researchers found an average decrease in these stress hormones of 39%, 38% and 70% respectively.
- Humor significantly boosted the levels of endorphins and human growth hormone in test subjects—two beneficial regulators of the body's immune system.

Berk, L.S., et. al. (1989, December). Neuroendocrine and stress hormone changes during mirthful laughter. *The American Journal of the Medical Sciences*. 298(6).

Mindful Laughter Benefits

- Smiling during periods of stress decreases cardiovascular arousal back to baseline levels

Fredrickson & Levenson, (1998) Positive emotions speed recovery from the cardiovascular sequelae of negative emotions. *Cognition and Emotion*, 12, 191-220.

- Even perceiving a smile in others releases dopamine in the viewer.

Depue & Morrone-Strupinsky, (2005) A neurobehavioral model of affiliative bonding. *Behavioral and Brain Sciences*, 28, 313-350.

Mindful Laughter Benefits

Study Measured Effect of Humor on Anxiety

- The Humor group read comics before a difficult math test; the non-humor group read poems or nothing.
- Humor group had significantly less anxiety before test and scored significantly higher on the math exam.

Ford, T. E., Ford, B. L., Boxer, C. F., & Armstrong, J. (2012). Effect of humor on state anxiety and math performance. *Humor*, 25, 59-74.

Mindful Laughter

Journal Studies on Laughter: The American School of Laughter Yoga

LaughterOnlineUniversity.com
LaughterYogaAmerica.com

Laughter Study for the Elderly:

Laughter therapy is considered to be useful, cost-effective and easily-accessible intervention that has positive effects on depression, insomnia, and sleep quality in the elderly

Effects of laughter therapy on depression, cognition and sleep among the community-dwelling elderly, Ko, H.J., and Youn, C.H., *Geriatr Gerontol Int.* 2011 Jul;11(3):267-74.

At the Movies... *Laughter Yoga and Dr. Lee Berk*

Mindful Lightening Up Intervention:

What do you take too seriously?

This practice will help you notice where you are reacting seriously, and help you to lighten up.

Part 1: Make a list of "Things I Spend Too Much Time Worrying About"

Examples: Things that push your buttons, critical comments, what others think, personal demands and expectations, lack of control over certain situations or aspects of your life.

Part 2: Make an executive decision to laugh it off, let it go. Yes, you can decide that!

Part 3: Write down a "lighter view" or each of the serious thoughts and evidence that worry has been counterproductive for you.

Part 4: Find out what and who makes you laugh (LRP- Laughter Resource Person).

Notice those who do not worry, and use them as role models.

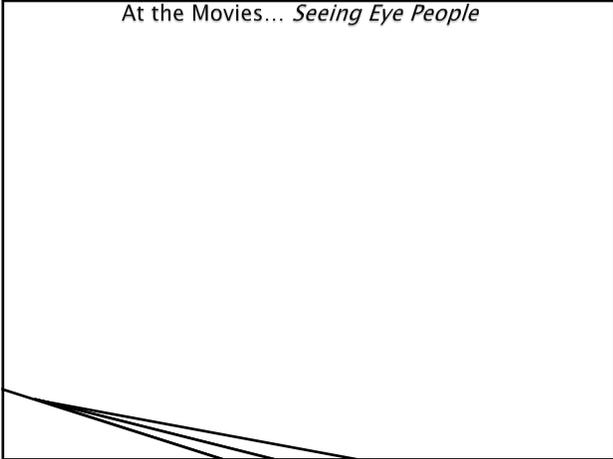
Mindful Walking and Nature for Focus, Moods, and Transitions

- ▶ Attention Restoration Theory; Nature Restore Mental Energy
- ▶ Practice: Sky Gazing and Ground Surfing

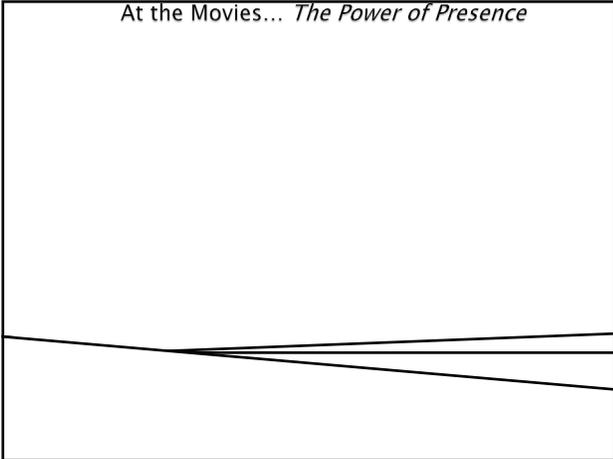
Mindfulness of the Body, or Two Ways of Doing Anything

- Being present; Useful for managing anxious feelings during moments of UNCERTAINTY and TRANSITIONS.

At the Movies... *Seeing Eye People*



At the Movies... *The Power of Presence*



Mindfulness Brings Awareness to Mind-Body Connection

- Meditation strengthens connections between the frontal cortex and the insula *
- Mindfulness training for 7-8 yr. old anxious children showed clinical improvement, better attention, and included daily mindful walking. **

*Effects of Meditation Experience on Functional Connectivity of Distributed Brain Networks, *Frontiers in Human Neuroscience*, March 2012 | Volume 6 | Article 38 | 1; Wendy Hasenkamp and Lawrence W. Barsalou

** Treating anxiety with mindfulness: an open trial of mindfulness training for anxious children; *Journal of Cognitive Psychotherapy*, Vol. 19 No. 4, 2007; Sample, Reid, and Miller

Mindfulness for Balance and Coordination

* MS patients with 2- weekly 90 min sessions of Tai Chi for 6 months had improved balance & coordination, less fatigue & depression compared with control group.

** Participants induced into a mindful state with their body had significantly improved balance over those who didn't have the treatment.

* Burshka, Et. al., Mindfulness-based interventions in multiple sclerosis; beneficial effects of Tai Chi on balance, coordination, fatigue, and depression; BMC Neurology, 2014, 14:165

**Mindfulness, movement control, and attentional focus strategies: effects of mindfulness on a postural balance task. Journal of sport & exercise psychology, Vol. 34, Issue 5, pp. 561-579 2012, Yee kee, PhD.

Nature in Therapy

*Nature restores energy in the workplace and reduces stress.

*Reduces aggression and anger
May reduce mild depression

**Scenes of nature calmed drivers and reduced frustration

*A Plasma Display Window, Journal of Environmental Psychology, 28 (2008) 192-199, Kahn, Friedman, et. al.

**Natural Scenes Calm Drivers More than City Views, Journal Environment and Behavior, Nov. 2003; Jack Nasar,

Intentional Mindful Walking

- 3-Step Process
 - Set mental **intention**
 - **Follow-up** with the action
 - **Observe** body, feelings, thoughts, perceptions. Uses attention to sustain observation.

Nature Reflection Exercise

Sit in nature with this poem or another reading for 5-10 minutes.

When despair for the world grows in me and I wake in the night at the least sound in fear of what my life and my children's lives may be,

I go and lie down where the wood drake rests in his beauty on the water, and the great heron feeds.

I come into the peace of wild things who do not tax their lives with forethought of grief.

I come into the presence of still water. And I feel above me the day-blind stars waiting with their light.

For a time I rest in the grace of the world, and am free.

Peace of Wild Things—Wendell Berry

Gazing At the Sky, Trees, the Stars

Eyes wide open practice

- Settle in to the whole body as it is;
- Rest the mind as it is;
- Cast your gaze outward to the vastness;
- Release your personal pain and suffering to the wisdom of nature without expectation
- Rest in the natural state of interbeing with nature

At the Movies... *Baraka and Mindful Walking*

Practice...

*Walking Awareness
and Connection*

**Mindful Mood Management with
Selective Memory**

- ▶ Selective Memory of Savoring Past Success
- ▶ Selective Memory of Helping Others
- ▶ Practice: Savoring; Being a Benefactor

Savoring a Past Success

- Recalling past successes or good times can boost feelings of positivity.
- Extending a positive memory for a longer period of time, known as "savoring" can produce feelings of well-being.

Journal of Happiness Studies; *Savoring: A New Model for Positive Experience*, 2007

Savoring for Older Adults

- Older adults associate tranquility and contentment with life-satisfaction.
- Use a Savoring Exercise with Tranquility as the focus.
- Have client make a list of ways they feel content in their life to help them experience a life well-lived.

Savoring Practice

During the next five minutes, savor a favorite memory, a past success, or something you are proud of, that makes you feel joyful.

You can either write this down or just savor the memory in great detail.

(Use tranquility and contentment as a focus if you want.)

Being a Benefactor

Reflecting on voluntarily giving or being a benefactor produces:

- Increased positive affect and greater pro-social behavior than when reflecting on receiving.
- Stronger self-identity as a capable and caring contributor.

Psychological Science, 2012

Benefactor Practice

For the next five minutes, write about a recent experience at work or in your life in which you volunteered or made a contribution that enabled other people to feel grow, flourish, or feel grateful.

Write down your experience of being a benefactor in as great detail as you can.

Savoring and Benefactor Metacognitive Reflection

Share your experience with others as you explore:

- > What was it like to do both of these? Which appealed to you most? Why?
- > How might this practice have a positive impact on your day, work, or relationships?
- > How might you use or adapt either of these interventions with clients?

Afternoon Mindfulness Warm-Up

WHERE ARE YOU RIGHT NOW?

3-Part Practice

BODY as it is
(Rooted, Posture)

BREATH as it is
(Physical Contact Point)

MIND as it is
(Non-judging Labeling)

Harnessing Gratitude

- ▶ Four Psychological Reasons Why Gratitude Is Good
- ▶ Practice: Take G.L.A.D. Snapshots Through the Day

Things We Sometimes Forget to Have Gratitude For...

Consistent Gratitude Practice

PHYSICAL

- * Stronger immune system * Lower blood pressure
- * Less bothered by pain * Lower blood pressure
- * Exercise more and take better care of health
- * Sleep longer and feel more refreshed upon waking

PSYCHOLOGICAL

- * Increased positive emotions * More alert, alive, and awake
- * More joy and pleasure * More optimism & happiness

SOCIAL

- * More helpful, generous, and compassionate
- * More forgiving and more outgoing
- * Feel less lonely and isolated

www.GreaterGood.berkeley.edu

At the Movies... Robert Emmons- Why Gratitude Is Good

Gratitude for Depression

Depression Intervention:

2003 study* had participants write down five things they were grateful for during the week for a period of 10 weeks.

Results showed these people were:

- 25% happier than persons who wrote down their day's frustrations or simply listed the day's events.
- More optimistic about the future.
- Felt better about their lives.
- Participated in one and a half hours more exercise per week than those in the control groups.

*Counting Blessings Versus Burdens: An Experimental Investigation of Gratitude and Subjective Well-Being in Daily Life—Robert Emmons and M. McCullough, *Journal of Personality and Social Psychology*, 2003, Vol. 84, No. 2, 377-389

Gratitude for Depression

A second study revealed:

- "The gratitude group reported significantly bigger increases in their happiness levels from before to after the intervention." It was only necessary for participants in this study to do the practice once a week, such as on a Sunday night, for the benefits to be felt."

—Sonja Lyubomirsky in her book, *The How of Happiness*

Three Gratitude Practices

INTERPERSONAL PRACTICE 1: Write down one thing you were grateful for in the past week and then tell the story behind that gratitude to another.

INTERPERSONAL PRACTICE 2: Write a Gratitude Letter about something positive that another person did for you, and present that individual with the letter.

PERSONAL PRACTICE 3: Make a Gratitude Bowl (or teacup) for the day or week, and put a penny in for each time you feel grateful for something. Track how many pennies you accumulate.

G.L.A.D. Daily Snapshots*

G.L.A.D. is an acronym for finding joy and balance using cognitive, behavioral and mindfulness skills

- G - find one Gratitude you're thankful for today
- L - find one new thing you Learned today
- A - find one Accomplishment you did today
- D - find one thing of Delight that touched you today

Journal or write these on an index card

**The Mindfulness Toolbox by Donald Altman*

At the Movies... *Mr. Rogers and Planting a Garden in Your Mind*

Loving Kindness to Heal Trauma

- ▶ Fredrickson's *Broaden and Build* Theory for Positive Emotions
- ▶ Compassion Research and Safety Primings
- ▶ Practice: Loving-Kindness Affirmation

Broaden and Build Theory of Positive Emotions

- ▶ Asserts that positive emotions broaden attention and thinking in response to diverse experiences, not narrowly focused threats.
- ▶ Positive emotions increase connection, trust, and openness.
- ▶ Positive emotions build relationships and resources.
- ▶ Loving-kindness Meditation (LKM) increased daily positive experiences and broadened personal resources and life satisfaction, and altered response to negative, depression-inducing emotions.

Open Hearts Build Lives: Positive Emotions Induced Through Loving-Kindness Meditation Build Consequential Personal Resources, J Pers Soc Psychol. 2008 November; 95(5): 1045-1062. doi:10.1037/a0013262, Fredrickson, Cohn, et. al.

Loving Kindness to Heal Trauma

Journal of Clinical Psychology, May, 2009, Ann Kring

Loving Kindness Intervention

- *May I be safe*
- *May I be happy*
- *May I be healthy*
- *May I be at peace*
- Optional to add: "May I be...Secure, Loved, Forgiven, Accepted, etc."

Loving-kindness and compassion meditation: potential for psychological interventions, Hoffman, Grossman, and Hinton, et. al., Clinical Psychological Review, 2011 Nov;31(7):1126-32. Epub 2011 Jul 26.

Loving-Kindness Meditation to Enhance Recovery from Negative Symptoms of Schizophrenia, Johnson, Kring, Brantley, et. al., Journal of Clinical Psychology Vol 65(5) 499-509(2009)

Loving Kindness Intervention

After practicing sending these warm feelings to yourself, you can extend these to others:

- Teachers, mentors, guides
- Family and friends
- Neutral persons
- Unfriendly persons
- To all persons without discrimination

Putting It All Together

- Engage through Learning Styles
- Bundle Practices to Create a Personalized Template or Plan
- Schedule Practices
- Follow-up and Reinforce

Mindfulness to Deal with Life's Impermanence and Suffering

Mindfulness of the Cycles of Life
Discovery
Destruction
Despair
Openness
Hope
Renewal

Parabird Suite

At the Movies...Fantasia, and Radical Acceptance

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WEB SITE RESOURCES

Donald Altman's mindfulness websites: *Mindfully Speaking Newsletter* at: **MindfulPractices.com**

Dana Foundation, brain and immunology info and free newsletter: **www.dana.org**

Greater Good; The Science of a Meaningful Life: **www.GreaterGood.berkeley.edu**

Hope Foundation, Professional Development for Educators: **www.hopefoundation.org**

The Mindful Awareness Research Center: **www.marc.ucla.edu**

Mindfulness Research Monthly: **www.mindfulexperience.org**

Center for Investigating Healthy Minds; Richard Davidson, **www.investigatinghealthyminds.com**

Scientific American Mind magazine: **www.SciAmMind.com**

Social Cognitive Neuroscience Laboratory, UCLA: **www.scn.ucla.edu**

Global Assoc. for Interpersonal Neurobiology Studies: **www.mindgains.org**

The Center for Mindful Eating: **www.TCME.org**
