

Stress Management in MS





NOVEMBER PROGRAMS

JUMPSTART – Nov 6 *Communicating Together*

COACHING – Nov 10 Supporting Ourselves and Each Other

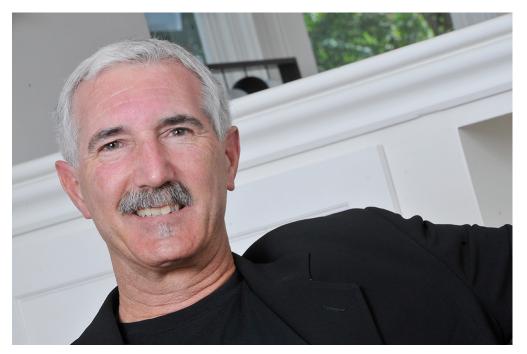
> COACHING – Nov 16 Your Questions, Answered: Stress

> > JUMPSTART – Nov 18 Preparing For The Holidays



CanDo-MS.org

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Learning Objectives



Define the interrelationship between stress and MS

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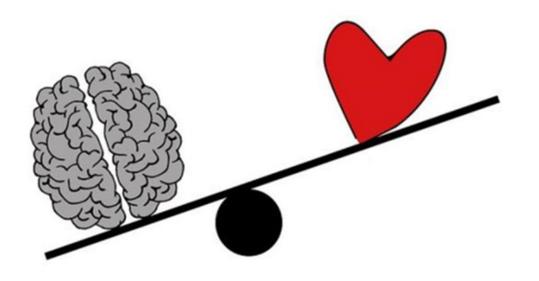
Identify your personal stressors and those unique to support partners



Discuss how individual and shared physical activity can reduce stress

Stress & MS

Our Stress Response



Activating the primary threat and reward circuitry takes 1/5th of a second (we respond before we think 80 – 100 x faster)

Hambley, C. (2020). CONNECT©: A brain-friendly model for leaders and organizations. *Consulting Psychology Journal: Practice and Research*, *72*(*3*), 168–197



Stress and MS

- 121 patients with MS followed for 48 weeks (MRI scans every 8 weeks)
- Measures of stressful life events were used to predict gadolinium-enhancing (Gd+) and T2 lesions on MRI scans 29-62 days later
- **Negative stress** = threat type of issues, challenges and concerns
- Positive stressful events predicted reduced risk for subsequent Gd+ lesions and negative events predicted new and enlarged lesions





Three Paths in the Face of Stress, Adversity & Challenge



Trauma: Tragic events (e.g., school shootings, chronic stress of long-term care giving, sexual abuse) can leave a "long trail" of psychological scars including *post-traumatic stress* (Mazzei & Jordan, 2019)

In two studies, people who experienced childhood adversity have a *blunted physiological response* (cardiac reactivity), which is associated with inflammation and poorer health (Bourassa, et al. (2021)

Loss: Catastrophic events can have a deep, lasting & emotional impact such as lingering pain of a child's death (Li et al., 2005)



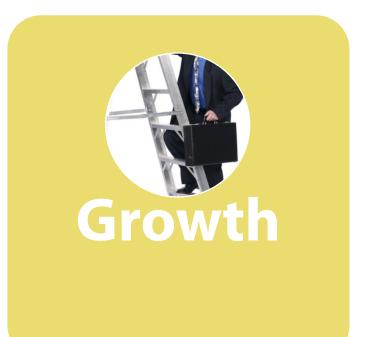
Three Paths in the Face of Stress, Adversity & Challenge

- Stability of Subjective Well-Being: Most people recover from romantic breakups, job loss (Gilbert et al., 1998)
- **Coping with Disabilities**: After suffering disabilities or illness and about 2 out of 3 people regain near-normal life satisfaction (Giesser et al., 2013)
- Hardiness of Trauma Survivors: About 25% experience a "recovery trajectory" from brief bouts of PTSD, stress, or depression (Bonanno, 2012)





Three Paths in the Face of Stress, Adversity & Challenge



- Challenges Strengthen Coping Skills: Moderate levels of hardship boosts mental toughness (Seery, 2012)
- **Cancer Survivors Gain New Perspective**: A brush with death leaves many survivors with altered priorities, richer spirituality, stronger relationships and appreciation of each day (Tedeschi & Calhoun, 2004)



Our Own Post-Traumatic Growth Research

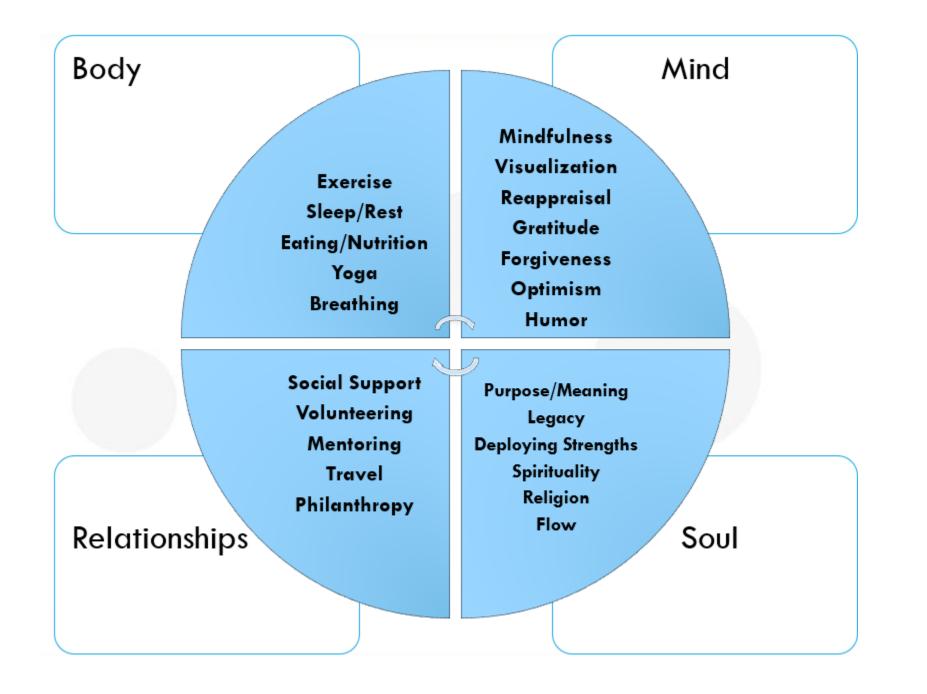


National Multiple Sclerosis Society Southern California & Nevada Chapter



- 12-Week Living Well with MS Program (Giesser et al., 2013)
- **Components:** Stress Management; Symptom Management; Eating/Nutrition; Exercise & Spirituality
- Results: Significant change from pre-post compared to waiting list control with greatest effect sizes for:
 - Confidence in Managing & Knowledge about MS
 - Current Health Status
 - Perceived Stress
 - Psychological Well-being
 - Sleep
 - Exercise Activity
 - Spirituality Index

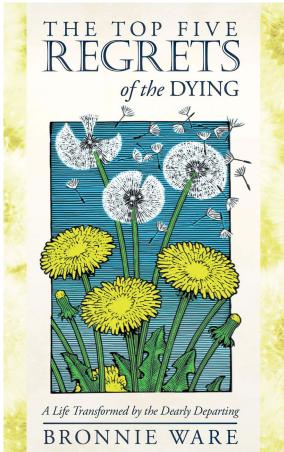






5 Most Common Regrets in Life

- I wish I pursued my dreams and aspirations, and not the life others expected of me
- I wish I didn't work so hard
- I wish I had the courage to express my feelings and speak my mind
- I wish I had stayed in touch with my friends
- I wish I had let myself be happier
- Ware, B. (2012). The Top Five Regrets of the Dying: A Life Transformed by the Dearly Departing. Hay House





Get Moving

The Power of Exercise and Physical Activity in Managing Stress

Building Resilience: Physical Activity/Exercise



- Research strongly supports a clear association between chronic exercise, cardiovascular health, immunity, and longevity (Sellami et al, 2018; Nieman & Wentz, 2019)
- Strong evidence supports an inverse doseresponse relationship between physical activity levels and mortality (e.g., walking for 30 minutes a day can lower mortality risk by 17%; Dietz et al., 2019)
- A meta-analysis of 29 studies links the role of exercise with an increase in BDNF (Szuhany et al., 2014). BDNF is associated with **learning, memory** and thinking (Voss et al., 2013; Gomez-Padilla, 2008)



Importance of Exercise

- Research supports physical activity/exercise lifts mood
- Overall healthier self
- Flexibility find a mode of exercise that YOU love!



What modes of exercise are out there?

- Aerobics
- Aquatic
- Yoga
- Tai Chi
- Pilates
- Strength training
- Zumba
- Ballroom dancing



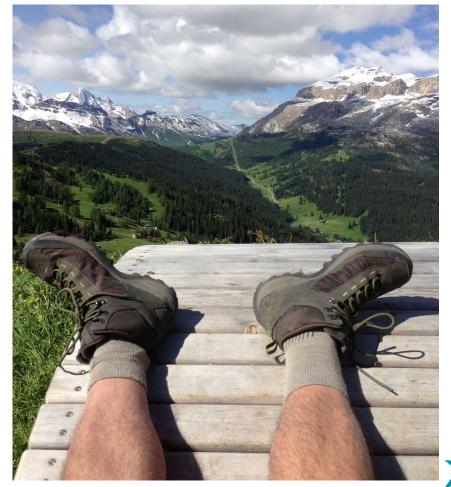
Reducing Anxiety

- Exercise to elevate your endorphins
 - Parasympathetic vs Sympathetic
- Choose a mode that works for you
 - Research indicates flexibility with your type
- Exercise is not a cure for anxiety
 - For mild or moderate depression
 - Pairs nicely with another mode of management, if needed
- Active people are less depressed than inactive people



Building Resilience: Outdoors

- Exposure to nature (in person or via video) is associated with increased happiness, positive affect, meaning/purpose and decreases in mental distress (Science Advances, Vol 5, 2019)
- **Two-hours a week** (either at one time or spread out over) is associated with *significant grater health* and well-being (Scientific Reports, Vol. 9, 2019)





Get Outdoors!

- Looking for an outdoor or nature experience for the weekend?
- "Yonder.com"
- Great for people with MS and support partners! Outdoor exposure is linked to improvement in overall mental and physical health!



Outdoor Options are Endless!

- Hiking
- Kayaking
- Skiing
- Horseback riding
- Picnics
- Reading outdoors
- Walks











What Actions Will You Take Today?











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Emerging Wellness Research: Key Takeaways and Ideas for You

Wednesday, December 1 at 8pm ET



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