# Life is Your Best Medicine



#### Tieraona Low Dog, MD

Founder: Medicine Lodge Ranch

National Geographic's: "Life Is Your Best Medicine," "Healthy At Home," and "Fortify Your Life"

www.DrLowDog.com

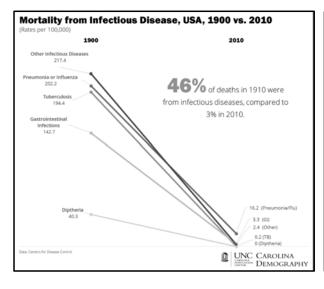
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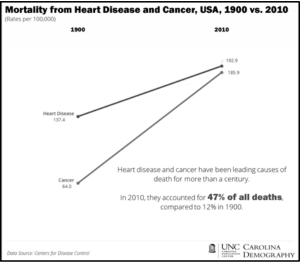
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#### The Times They Are A-Changing





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# **Epigenetics**

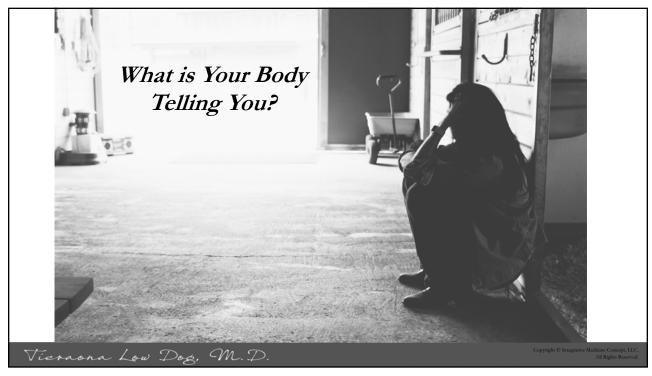


- Mapping of human genome one of greatest scientific undertakings of past century, detailing with incredible accuracy the blueprint of our species.
- Paved way for **epigenetics**, which has shown that when it comes to our genes, *nurture* is inextricably linked with *nature*.
- That it is the way we live our lives from the moment of conception to our last breath that influences the expression of our genes.

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#### **Emotion**



•A conscious mental reaction (such as anger or fear) subjectively experienced as strong feeling usually directed toward a specific object and typically accompanied by physiological and behavioral changes in the body.

Merriam Webster Dictionary

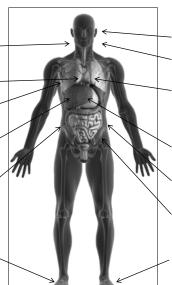
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#### Parasympathetic

- •Stimulates flow of saliva
  - •Slows heartbeat
- •Lowers blood pressure.
- •Stimulates release of bile and aids in digestion and elimination
- •Inhibits release of stress hormones
- •Increases blood flow to extremities



#### **Sympathetic**

- •Pupils dilate
- •Salivary production inhibited
- •Heart rate and blood pressure goes up
- •Mobilize fats and glucose; make more glucose
- •Inhibit digestion and elimination
- •Secrete "stress" hormones adrenalin, noradrenalin and cortisol
- •Reduce blood flow to fingers and toes

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High levels of stress hormones linked to high blood pressure, high cholesterol, high blood sugar, insulin resistance, insomnia, weight gain, headaches, mood swings, depression, and increased risk of infections.

Scientists believe that prolonged elevation of stress hormones may shorten our lifespan by 15 years.



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#### It All Starts With.... YOU

- Unlike many medical problems, there are no x-rays or lab tests that can give you a diagnosis when it comes to emotional wellbeing.
- It all comes down to the story, **to** *your* **story**. Your **dreams** for the future, how well you are **eating**, how well you are **sleeping**, your level of **happiness**, your ability to **focus**, your **relationships**, and more.
- If given enough information you can find your path to wholeness and well-being.

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### Seek Help When Needed

- Depression can make it hard to find pleasure, focus, get out of bed.
- Anxiety makes your heart race, makes it hard to concentrate.
- Mania takes you off center, makes it hard to sit still and rest.
- ADHD makes it hard to focus, stay organized, accomplish tasks.
- Ask yourself: could I be suffering from an illness or other condition that is making it hard for me to live my life. If yes, get help.
- And if you are taking medication and things have shifted, seek help in case your treatment needs to be adjusted.

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#### Reflection

- The story I like to tell about myself is \_\_\_\_\_
- I could lose all sense of time when I \_\_\_\_\_
- I am living my passion when \_\_\_\_\_

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## Energy Is Life.....



#### Things that sap energy:

- Poor diet/dehydration
- Nutrient deficiency
- · Lack of physical activity
- Chronic stress
- Too many demands on time
- Anxiety or depression
- Poor sleep
- Chronic disease

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### Wholesome Nutrition



- Fuel your body, not your emotions
- Dietary pattern of minimally processed foods, rich in plants and balance of macronutrients results in better mood and energy.
- DASH, vegetable-based, glycemic load-based, ketogenic and Paleo diets may improve mood more than the others.

Low Dog, T. The role of nutrition in mental health. *Altern Ther Health Med* 2010; 16(2):42-6.

Arab A, et al. Psychiatry Res 2019; 428-37

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### Caffeine and Anxiety

- Randomized, double blind caffeine challenge: 28 patients with panic disorder (PD), 25 patients with generalized social anxiety disorder (GSAD), 19 patients with performance social anxiety disorder (PSAD), and 26 control subjects.
- On two occasions 7 days apart, **480 mg of caffeine and a caffeine-free solution** were given to participants and anxiety scales administered before and after test.
- Panic attack was induced in 60.7% PD patients, 52.6% PSAD patients, and 16.0% GSAD patients.
- No one in control group had a panic attack after taking caffeine and none of the patients or controls had a panic attack after drinking the caffeine-free solution.

Nardi AE, et al. Psychiatry Research 2009;169(2):149-53

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# Glycemic Load and Mood

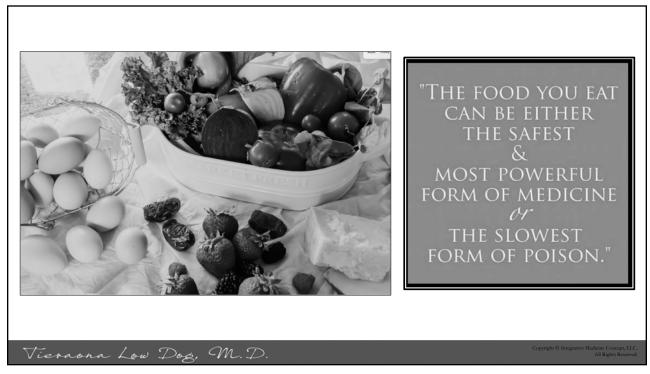
- 82 healthy weight and healthy overweight or obese adults enrolled in randomized, crossover controlled feeding study.
- Compared to a low GL diet, consumption of high GL diet resulted in:
  - 38% higher score for **depressive symptoms** (P = 0.002)
  - 55% higher score for total mood disorder (P = 0.05)
  - 26% higher score for **fatigue/inertia** (P = 0.04), compared to low GL diet.

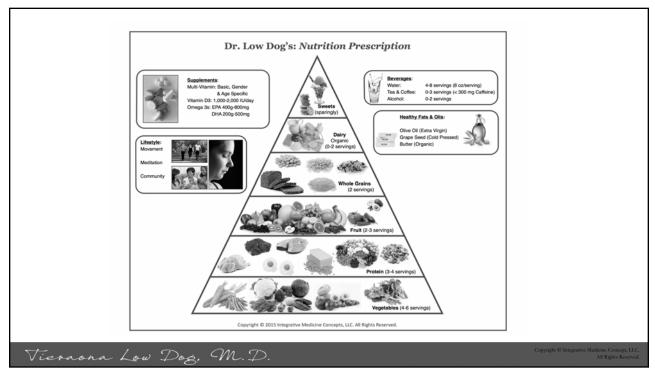


Breymeyer KL, et al. Appetite 2016; Dec 1;107:253-259.

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#### Take a Basic Multivitamin....

- 90 million Americans are vitamin **D** deficient (using the Endocrine Society guidelines < 20ng/mL)
- 30 million are deficient in vitamin B6
- 18 million people have B12 deficiency
- ~16 million have very low serum vitamin C
- 13% Latinas and 16% African American, and 8% white women (ages 12-49) are iron deficient
- Women 25-39 overall have borderline iodine insufficiency



CDC: 2<sup>nd</sup> National Report on the Biochemical Indicators of Diet and Nutrition in the U.S. population

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# Position on Nutrient Supplementation by the Academy of Nutrition and Dietetics

- Nutrient supplementation can be used to help meet nutrient requirements for those:
  - Older adults
  - Pregnant women
  - People who are **food insecure**
  - Alcohol dependent individuals
  - Strict vegetarians and vegans
  - Those with increased needs due to a health condition or the chronic use of a medication that decrease nutrient absorption/increase metabolism or excretion.

Marra and Boyar. J Am Diet Assoc 2009

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# Position on Nutrient Supplementation by the Academy of Nutrition and Dietetics

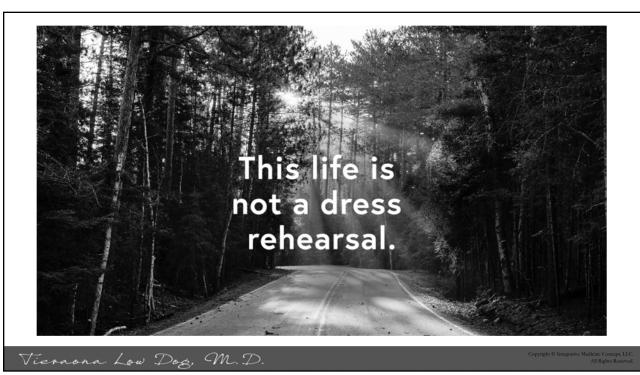
- Restricting energy intake for weight loss/control
- Not consuming an adequate amount of food to meet energy requirements as a result of poor appetite or illness
- Eliminating one or more food groups from their diet on a regular basis
- Consuming a diet low in nutrient rich foods despite adequate or excessive energy intakes.

Marra and Boyar. J Am Diet Assoc 2009

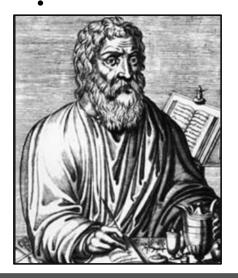
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# Eating alone will not keep a man well. He must also take exercise. Hippocrates



- Higher risk for heart disease, type 2 diabetes, certain cancers, Alzheimer's disease and increase lower back pain, depression and anxiety.
- Half of baby boomers in the US report having **NO exercise.**
- **80 million Americans** over the age of 6 years of age are **entirely inactive**

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### Movement: *Sound Body = Sound Mind*

- Movement increases blood flow to brain, promoting growth of new blood vessels and nourishing neurons.
- Stimulates endorphins that diminish pain, and compounds that elevate mood and reduce tension.
- Regular exercise increases energy levels and eases fatigue. 20 minutes three times per week of moderate exercise can improve energy levels in just four weeks!
- Fatigue, low energy, pain and depressed mood all impact our emotional wellbeing. Make movement a habit!

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#### Movement is Life.....

- Relationship between physical activity and cardiovascular, metabolic, neurological, immunological and bone health well-established.
- Shown to reduce the harmful effects of stressors when performed at moderate intensities.
- Meta-analysis of 398 studies consistently shows exercise benefits mood, depression and anxiety.
- Use a fitness tracker, find your passion. JUST DO IT



Deslandes, et al. Neuropsychobiology 2009; 59(4):191-8 Rebar AL, et al. Health Psychol Rev 2015; Mar 5:1-78

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### Yoga

- Literally, "union of the divine," yoga has been practiced in India for thousands of years.
- Yoga incorporates breathing exercises, different postures, stretches, and meditation in order to help one gain greater acceptance, compassion and centering.
- Yoga eases stress, anxiety, pain; improves mood.
- Many forms of yoga, find the one you like.
- If you are a beginner, consider Gentle Yoga by Jane Adams. Super soothing.

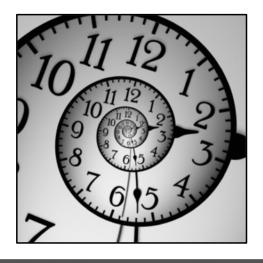


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# The Biological Clock



- Most important regulator of sleep wake cycle is our biological clock.
- Responsible for 24 hour fluctuations in hormone secretion, body temperature and other bodily functions.
  - Deepest sleep is generally around 2 AM
  - Lowest body temp around 4:30 AM
  - High alertness 10 AM
  - Highest body temperature ~ 7 PM
  - Melatonin secretion starts ~8-9 PM

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## The Need for Sleep

- Biological requirement for life
- Sleep quality genetically driven (lay down to sleep, sleep at night) and environmentally driven (working late at night, excessive caffeine or alcohol consumption).
- An abrupt shutdown of our perceptual interaction with environment.



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# Sleep Stages

- Stage 1: Few minutes: light and easy to wake from. Muscle twitching common.
- Stage 2: Light sleep, ~20 minutes brain waves begin to slow, blood pressure and body temperature decrease.
- **Stages 3 and 4:** Move into deeper sleep that's harder to wake from. Body repairs itself and boosts immune function. Known as "delta" sleep.
- Rapid eye movement (REM): Final stage in sleep cycle, brain becomes more active and dreams occur. Brain is processing information and storing long-term memories. Heart rate and breathing increases. Gets longer and longer through the night can last up to one hour.
- REM suppressors: alcohol, nicotine, blood pressure and anti-depressant meds

This cycle repeats ~90 minutes. As sleep progresses, REM cycles increase in length.

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# Consolidated vs Segmented Sleep

- Roger Ekirch (Virginia Tech) published seminal paper, showing humans slept in 2 distinct chunks.
- At Day's Close: Night in Times Past has more than 500 references to a segmented sleeping pattern in diaries, court records, medical books, etc.
- First sleep began ~two hours after dusk, followed by waking period of 1-2 hours; then a second sleep.
- For many reasons, by the 1920s, the idea of a first and second sleep disappeared from our social lives.



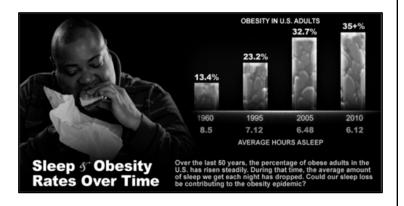
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# Consequences of Long-Term Sleep Disruption

• Chronic sleep problems can lead to weight gain, obesity, diabetes (33% increased risk), heart disease, mood disorders.



Shan Z, et al. Diabetes Care 2015;38(3):529-37

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# Brighter Mornings Make For Better Nights!



- Landmark 1989 study found when participants with seasonal affective disorder were
  exposed to either *simulated sunrise* or *simulated sunrise and sunset for several*days their depression resolved or was greatly reduced. Circadian rise and fall of
  melatonin occurred earlier with sunrise simulation.
- Dawn simulation devices can be very **good for those who have a hard time falling** asleep (e.g. teenagers!)
- Pricey *Philips Wake-Up Light* with **Colored Sunrise Simulation** is top rated.

Terman M, Schlager D, Fairhurst S, et al. Dawn and dusk simulation as a therapeutic intervention. Biol Psychiatry. 1989;25:966-970.

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### Cognitive Behavioral Therapy

- CBT has emerged as a recommended *first-line therapy for insomnia*. Digital CBT has been shown to be effective for improving sleep, as well as mental health and well-being.
- CBT typically consists of:
  - Psychoeducation about sleep and insomnia
  - Stimulus control
  - Sleep restriction
  - Sleep hygiene
  - Relaxation training
  - Cognitive therapy



Luik AI, et al. Digital cognitive behavioral therapy for insomnia: a state of the science review. *Curr Sleep Med Rep* 2017; 3(2): 48–56

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# **Dietary Considerations**

- Watch caffeine. Drink water and herbal teas with a calming, relaxing effect.
- Cut back or eliminate alcohol if having trouble sleeping.
- 3 drinks can disrupt melatonin secretion and REM sleep. Can increase excitatory neurotransmitters.
- Increase magnesium and tryptophan foods (e.g., poultry, eggs, milk, dark green leafy vegetables, pumpkin seeds).
- Consider magnesium supplements (200-300 mg per day at night)



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#### The Basics

- 1. Set a **sleep schedule** and stick to it.
- 2. Make your bedroom dark, quiet and cool.
- 3. Turn off electronics and or use blue light blocking technologies.
- 4. Watch the **caffeine.** Discontinue by noon if trouble sleeping.
- **5. Power naps:** can be good if 20-30 minutes in duration
- **6. Limit alcohol** intake.
- 7. Don't go to bed hungry.
- 8. Find ways to **deal with "worries".....**
- 9. Get **sleep evaluation** if sleep disruption and/or daytime fatigue continues
- **10.Controlled-release melatonin** recommended as first-line agents in older adults. (**2 mg sustained release** for 4-6 weeks and re-evaluate).

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## To Fall, to Let Go, to Open.....

To fall asleep is an act of faith, a deep trust that whatever is going on in life, you can let it go, put it on hold so that you can sleep deeply and awaken with the energy and resilience to face whatever lies ahead.

When body is **overstimulated**, brain is flooded with **neurochemicals that keep us awake**, making it difficult to wind down at night. This leads to **poor sleep**, **bad dreams**, and being tired during day.

Letting go can be hard when you think you are responsible for everything.

If you find it hard to delegate to others or things won't get done right. When one's "faith" is in themselves.



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## **Sleep Evaluation**

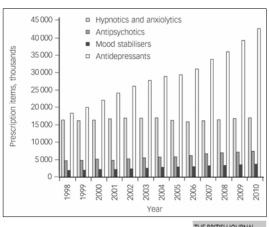
- Numerous medications can impair sleep (e.g., beta blockers antidepressants, steroids, ADHD meds, possibly statins, etc.) Do some online research and/or talk to your pharmacist. If you are taking medication that disrupts sleep, talk to your health care provider.
- **Restless leg syndrome** impacts many people. Talk to provider, could be due to low iron, vitamin D or meds—though cause is really not known.
- **Sleep apnea** is a condition where breathing is interrupted during the night. A sleep study can be ordered and treatments are available (e.g., CPAP, dental appliances which reposition lower jaw and tongue)

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# Trends in prescriptions of major classes of psychiatric drugs 1998–2010.



Stephen Ilyas, and Joanna Moncrieff BJP 2012;200:393-398

THE BRITISH JOURNAL OF PSYCHIATRY

- 400% increase in anti-depressant prescriptions since 1980s. Rates of anxiety/depression in adolescents and young adults **skyrocketing**.
- JAMA review: For severe depression, benefit of medications over placebo is substantial; however, magnitude of benefit may be *minimal or nonexistent*, on average, for those with mild or moderate symptoms.

Fournier, et al. JAMA, 2010;303(1):47-53

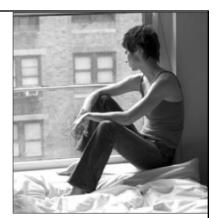
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# Many Factors at Play..... All Must be Addressed...



- Processed, nutrient depleted diet
- Poor gut health
- Poor sleep and inadequate rest
- Lack of physical activity
- Increased exposure to environmental toxins
- Social isolation and soul pain
- Strong focus on image, money, high achievement, having "stuff"
- Weaker personal and community networks

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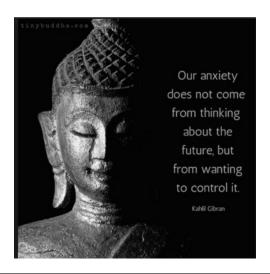
### The World Today

- We strongly emphasize **biological explanation** for depression and anxiety, as evidenced by **extensive use of antidepressants and anxiolytics.**
- There remains little focus on physiological, nutritional, societal, communal, familial and spiritual underpinnings.
- "I take my Effexor and go to a **job I hate** and then home to a house full of **kids** that are **out of control** and a husband that **barely talks to me**. Is my depression better? **Yea, I guess."**
- Complex world. We often have unrealistic expectations. Isolation is common, financial problems, lack of purpose, meaning, a sense of despair, hopelessness the world has less color and texture.

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# **Self Soothing**



•A good way to deal with anxiety and high stress is to occasionally sidestep the analytical part of your brain by practicing relaxation, meditation and/or using guided imagery.

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# **Progressive Muscle Relaxation**

- Focused exercise that has you relax, contract and relax the muscles of your body.
- Lots of CDs and apps that can help you learn to do this.
- Great way of releasing tension we hold in our muscles.



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#### **Favorite Resources for Muscle Relaxation**

- **Progressive Scan Meditation** by Unyte Health (iTunes) Free
  - Great app for doing body scan and relaxing muscles. Also has lovely meditations ranging from 6-30 minutes.
- Autogenic Training and Progressive Muscle Relaxation
  - Great app for deep muscle relaxation. \$2.99 one time (iTunes)
- Relax Me is for Android, I haven't used it but patients like it.
- Progressive Relaxation and Autogenic Training by Carolyn McManus
  - Audio CD or MP3, excellent for muscle relaxation

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### Guided Imagery: Imagine Yourself......

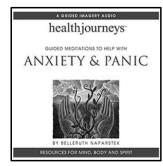
- An **immersive**, **deeply relaxing intervention** that uses calming words, soothing music and positive images to structure a healing experience.
- Like meditation, it **focuses attention and calms the mind,** working on those parts of the brain where the emotional self dwells.
- Clinical trials show can reduce stress, anxiety, and depression; help with sleep; lower blood pressure, and ease posttraumatic stress.
- I have found guided imagery a fabulous tool for myself, kids and patients. Very helpful for those with ADHD, anxiety, depression, pain, insomnia.

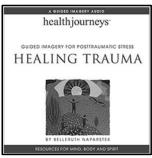
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### Belleruth Naparstek

- Love, love, love her. Something for everyone.
- She has Guided Imagery Meditations for:
  - Anxiety and Panic
  - Anger and Forgiveness
  - Depression
  - Healing Trauma
  - Ease Grief
  - Relieving Stress
  - Undergoing Surgery
  - Chemotherapy and Radiation





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### Mindfulness Meditation

- Helps with stress perception and pain intensity, elevates mood. Quiets stream of thoughts.
- Long-time meditators have greater activation of areas responsible for sustaining attention, processing empathy, integrating emotion and cognition.
- Review of **47 trials** found that meditation improves:
  - Anxiety
  - Depression
  - Pain



Goyal M, et al. JAMA Intern Med 2014; 174(3):357-68

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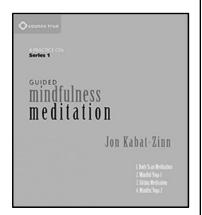
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# Guided Mindfulness Meditation: A Complete Guided Mindfulness Meditation Program from Jon Kabat-Zinn

- Four-part home course, one of best ways to learn about mindfulness meditation.
- Might be great choice if you feel **anxious**, are living with **chronic pain**, **stress is off the charts**, or just interested in **learning how to meditate** without the spiritual overtones found in many other teachings.
- Pairs nicely with his book Full Catastrophe Living.

www.betterlisten.com/pages/jonkabatzinnseries123



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### **Meditation Resources**

- *Calm* great app for guided meditation, bedtime stories, breathing exercises (free to \$60 annual subscription)
- *Insight Timer* ~4,000 guided meditations >1,000 teachers (self-compassion, nature, stress, podcasts). Music tracks (free to \$5/mo)
- *Headspace* meditation, videos, meditations music (free basic course, \$12.99 mo, \$95/year)
- 10% Happier performance enhancement. Busy people, stressed lives. (Free one week intro, then \$100 per year).
- *Buddhify* for the more advanced meditator. Can sort by location, activity and/or emotion. (small monthly fee, premium is \$30/yr).

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#### Music is Good For Your Brain.....

- Enhances neuroplasticity brain's ability to adapt to change and experiences.
- Can improve attention, concentration, and memory.
- Learning music modifies structure and function of left temporal lobe, area responsible for mental processing of speech.
- Music training significantly increases verbal memory in children.



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### Music and Mood

- Researchers at McGill University used **functional MRI** to monitor changes in brain when study participants listened to music.
- They found the *intense pleasure* experienced in response to music is due to the release of *dopamine* from nerve cells in the part of our brain associated with *pleasure*.
- What music MOVES you?

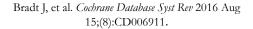


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### Music and Quality of Life

• After evaluating **52 music- intervention studies**, Cochrane
Collaboration reviewers **reported that music could reduce anxiety and pain and improve mood and quality of life in people with cancer.** 





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"Music can lift us out of depression or move us to tears - it is a remedy, a tonic, orange juice for the ear.

But for many of my neurological patients, music is even more - it can provide access, even when no medication can, to movement, to speech, to life.

For them, music is not a luxury, but a necessity."



Oliver Sacks, MD

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#### Ted Talks

- My favorite is by a young woman who speaks about how music is the metaphor for life.
  - <a href="https://www.ted.com/talks/anika">https://www.ted.com/talks/anika</a> paulson how i found myself t hrough music
- Brilliant and beautiful TED talk about how music can transform and soothe us by Robert Gupta.

https://www.ted.com/talks/robert\_gupta

- Awesome talk on how sound impacts us and how to restore our deep relationship with it. Great stuff.
  - <a href="https://www.ted.com/talks/julian treasure shh sound health in 8 steps">https://www.ted.com/talks/julian treasure shh sound health in 8 steps</a>

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# Loneliness, Social Isolation & Your Health

- Poor social relationships associated with 29% increase in risk of heart disease and 32% increased risk of stroke.
- **148 studies** on the effects of social isolation on health found it is:
  - As bad as **smoking** 15 cigarettes a day
  - As dangerous as being an alcoholic
  - As harmful as never exercising
  - Twice as dangerous as being **obese**



- Valtorta NK, et al Loneliness and social isolation as risk factors for coronary heart disease and stroke: systematic review and metaanalysis of longitudinal observational studies. *Heart.* 2016 Jul 1:102(13):1009-16.
- Cacioppo JT, et al. Ann N Y Acad Sci 2011; 1231:17-22

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Call it a clan, call it a network, call it a tribe, call it a family.

Whatever you call it, whoever you are, you need one.

~ Jane Howard









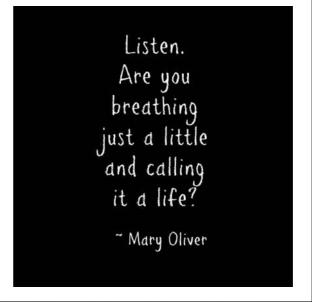
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### Meaning and Purpose

- What truly gives a person a sense of *meaning and purpose* in life?
- How does one feel the oneness, find the *holy and sacred* in the mundane?
- "If I only had one day left to live, I'd want to \_\_\_\_\_."



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To speak gratitude is courteous and pleasant, to enact gratitude is generous and noble, but to live gratitude is to touch Heaven.

Johannes A. Gaertner, quoted in Words of Gratitude

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"But until a person can say deeply and honestly, "I am what I am today because of the choices I made yesterday," that person cannot say, "I choose otherwise."

Stephen Covey



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- 1. Move more. Whether it's the 7 minute workout, cycling, yoga, or taking long walks one of surest ways to maintain heart, brain, bone and muscle health is daily exercise. It's not optional. *Just do it.*
- 2. Eat food. Minimally processed, **low glycemic load**, diverse, and largely **plant** based diet. **Organic, local, and/or humanely raised** when possible,
- **3. Meditate.** Meditation widens the gap between trigger and response, allowing you to feel a greater calm and awareness. It's a **game changer** for almost anyone.
- **4. Stay connected.** Social isolation and loneliness is as dangerous as being an alcoholic or being obese. **Invest in your friends and family.**
- **5. Take a multi.** Many lack when it comes to key micronutrients. A food based multi can be insurance against the gaps. **Age and gender** appropriate.
- 6. Be tech smart. Technology makes life easier and more complex. Use **blue light blocking glasses** at night, make one day each week **tech free**, and **limit email in the evening**.
- 7. Nurture spirit. The search for meaning and purpose is a fundamental part of being human. A richly nourished inner life is a source of strength during hard times. Look inward. Honor mystery.

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