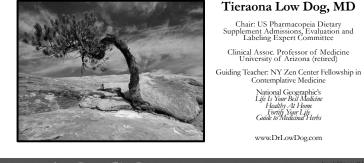
Life is Your Best Medicine



Clinical Assoc. Professor of Medicine University of Arizona (retired)

Contemplative Medicine

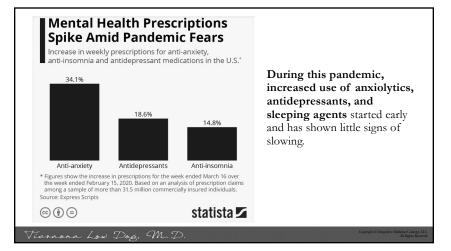
"When we are born, we are set upon a path and that path is our medicine road.

All the choices we make along the way affect our thoughts, our relationships, our health, and the world around us."

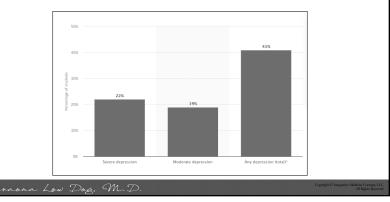
Grandma Jo

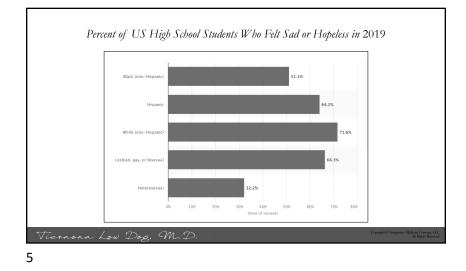
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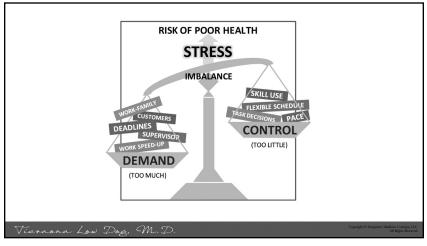


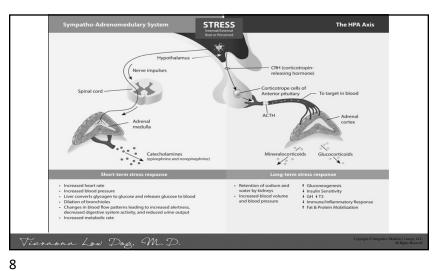


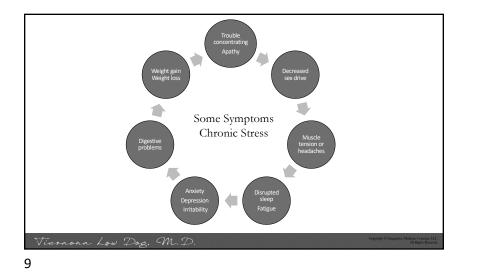


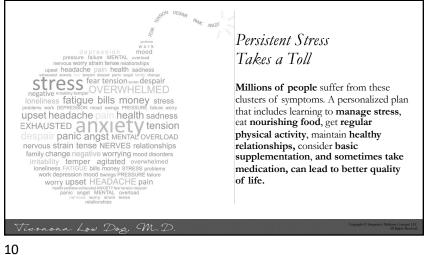












 Rest & Slep

 Practive

 Practive

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 Output regular

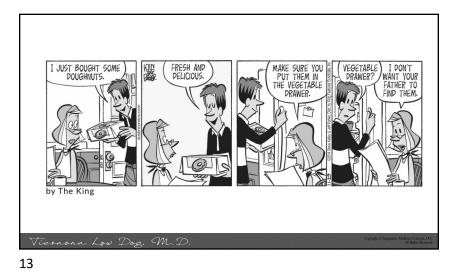
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Mood Effects Food Choice and Vice Versa

- How we feel affects what we eat and what we eat affects the way we feel.
- Drinking **sweetened beverages** and eating **more refined foods** associated with an • increased risk of depression in longitudinal studies.
- Women's Health Initiative (n = 87,618 women): Women with a higher intake of **dairy products**, **fiber**, **fruit** (not juice), and **vegetables** had significantly **LOWER odds of depression**; women with higher *refined grain* consumption had **INCREASED** odds of depression.



AlAmmar WA, et al. Food and Mood: the Corresponsive Effect Carr Natr Rep 2020 Sep;9(3):226-308.

Glycemic Load & Mood • 82 healthy weight or healthy overweight or

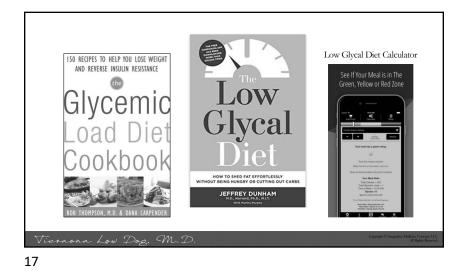
- crossover-controlled feeding study. • Compared to low GL diet, a high GL
- diet resulted in:
- 38% higher score for *depressive* symptoms (P = 0.002)

obese, adults enrolled in 28 day randomized,

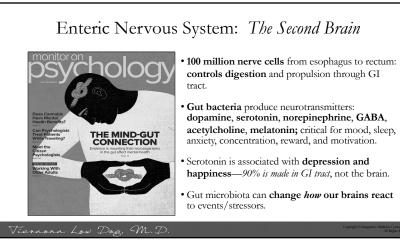
- 55% higher score for *total mood* disorder (P = 0.05)
- 26% higher score for fatigue/inertia (P = 0.04)

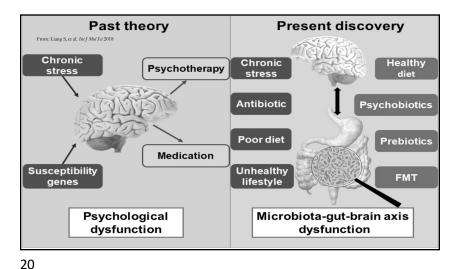


Breymeyer KL, et al. Appetite 2016; Dec 1;107:253-259.

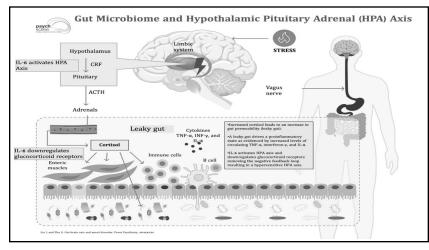


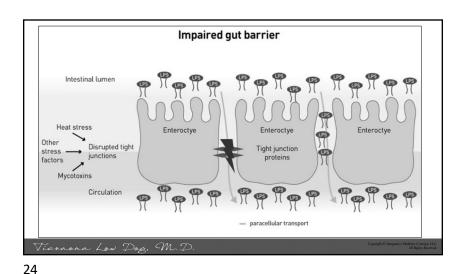
Human Microbiome Project Massive NIH research initiative cataloging microorganisms living in and on our body starting in 2007. Led to *rapidly growing appreciation* for incredible and diverse impact these organisms have on our health and well-being. Gut bacteria produce vitamins, break down food; their presence or absence linked to obesity, inflammatory bowel disease, IBS, anxiety, depression, food allergies, neuroinflammation, GI infections, HTN, diabetes, metabolic syndrome, and more. Our resiliency, our ability to RECOVER QUICKLY FROM STRESSORS, may be a function of which *bacteria inhabit or don't inhabit our gut*.

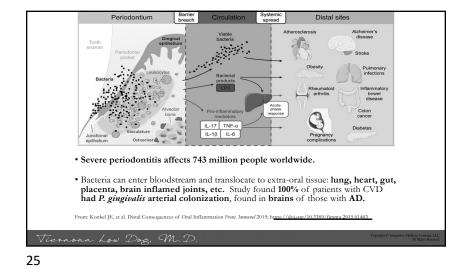


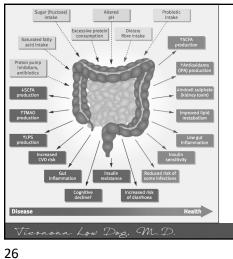






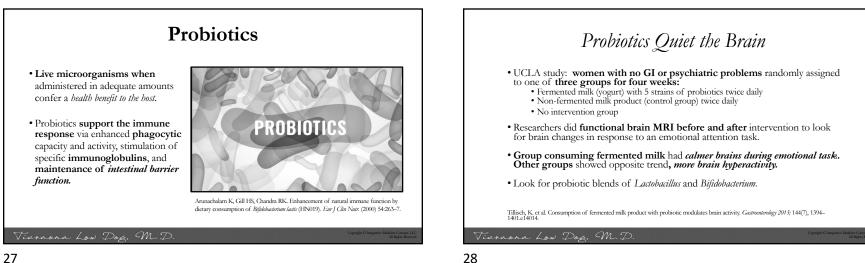






- Many dietary, lifestyle and ٠ medications can dramatically impact the microbiome and ultimately impact human health.
- Dietary fiber and probiotics ٠ are SO important for gut health.

From: Valdes AM, et al. Role of gut microbiota in nutrition and health. British Medical Journal 2018;361;i2179



Eat MORE fiber, Eat LESS sugar



Bibbo S, et al. Eur Rer Med Pharmand Sci 2016; Nov;20(22):4742-4749. Wegh CAM, et al. Expert Rer Gastronstret Heptatla 2017 Nov;11(11):1051-1045. Young RP, et al. Am J Respir Cell Mol Biol 2016;54:161–169. Kranz S, et al. Adm Natr 2012; 3(1): 47–53.

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• Low fiber, high sugar diets reduce
Bifidobacterium and degrade barrier
function, key part of innate immunity.

- Loss of barrier function increases inflammation, neuroinflammation, depression and anxiety.
- Adequate Intake Fiber: • 38 g/d men, 26 g/d women

Fruits	Serving size	Total fiber (grams)*	Vegetables	Serving size	Total fiber (grams)*
			Green peas, boiled	1 cup	9.0
Raspberries	1 cup	8.0	Broccoli, boiled	1 cup chopped	5.0
Pear	1 medium	5.5	Turnip greens, boiled	1 cup	5.0
Apple, with skin	1 medium	4.5	Brussels sprouts, boiled	1 cup	4.0
Banana	1 medium	3.0	Potato, with skin, baked	1 medium	4.0
-			Sweet corn, boiled	1 cup	3.5
Orange	1 medium	3.0	Cauliflower, raw	1 cup	2.0
Strawberries	1 cup	3.0		chopped	
Giumbonios	i sup	0.0	Carrot, raw	1 medium	1.5

https://www.mayoclinic.org/healthy-lifestyle/nutrition-and-healthy-eating/in-depth/high-fiber-foods/art-20050948

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30

32

Grains	Serving size	Total fiber (grams)*	Legumes, nuts and seeds	Serving size	Total fiber (grams)*
Spaghetti, whole-wheat, cooked	1 cup	6.0	Split peas, boiled	1 cup	16.0
Barley, pearled, cooked	1 cup	6.0	Lentils, boiled	1 cup	15.5
Bran flakes	3/4 cup	5.5	Black beans, boiled	1 cup	15.0
Quinoa, cooked	1 cup	5.0	Baked beans, canned	1 cup	10.0
Oat bran muffin	1 medium	5.0	Chia seeds	1 ounce	10.0
Oatmeal, instant, cooked	1 cup	5.0	Almonds	1 ounce (23 nuts)	3.5
Popcorn, air-popped	3 cups	3.5	Pistachios	1 ounce (49	3.0
Brown rice, cooked	1 cup	3.5		nuts)	
Bread, whole-wheat	1 slice	2.0	Sunflower kernels	1 ounce	3.0

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Beverages

- Your primary beverage of HYDRATION should be water.
 - Add fruit, cucumbers, mint leavesMake your own "bubbly"
- **Coffee and tea** are fine (3–4 cups/d). Watch caffeine if *sensitive* to its effects.
- Herbal tisanes lovely addition for an afternoon or evening beverage
- Traditional Medicinals and Yogi have many excellent offerings
- Alcohol: limit 1 serving/d if you drink

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Real State of Our Nutrition

• 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 scurvy (by serum levels)
- 13% of Latinas and 16% of African American women (ages 12–49) are **iron deficient**
- Women 25–39 overall have borderline iodine insufficiency

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

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Exercise & Health

- 80 million Americans 6 years and older are entirely inactive.
- 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**.

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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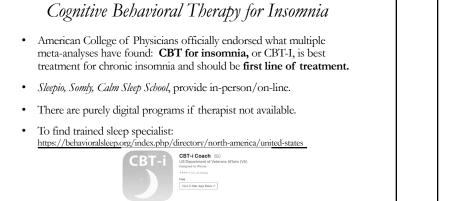


To Sleep is to Heal



- 1. Make your bedroom dark, quiet, and cool. Invest in good mattress and pillows.
- 2. Turn off TV, computers, tablets, and smart phones 1 hour before bedtime.
- 3. Avoid caffeine after 12:00 PM (e.g., coffee, tea, soda, chocolate).
- 4. Limit alcohol intake and don't drink within 2-3 hours of bedtime.
- 5. Try not to exercise within 2 hours of bedtime.
- 6. Consider a hot bath 1-2 hours before bedtime.
- 7. Try to not to eat right before bed. A glass of warm milk, bowl of cereal okay.
- 8. Keep same sleep schedule 7 days a week.
- 9. Get sleep evaluation if sleep disruption and/or daytime fatigue continues.

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37



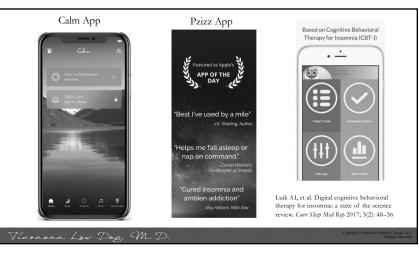
Oral Lavender Essential Oil (Lavendula angustifolia)

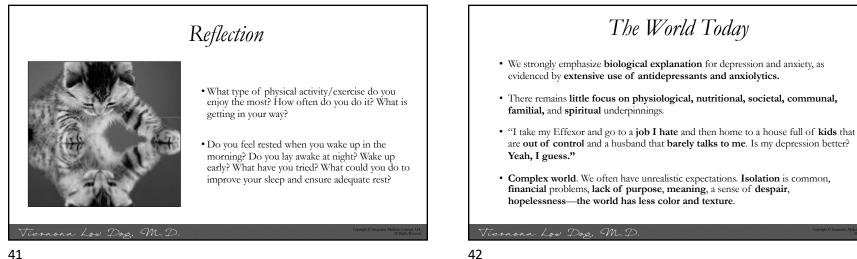
Meta-analysis randomized, double-blind, placebo-controlled trials show Silexan, essential oil from lavender licensed in 14 countries worldwide, has pronounced anxiolytic effect and beneficial effect on sleep. Adverse events similar to placebo.

Moller HJ, et al. Efficacy of Silexan in subthreshold anxiety: meta-analysis of randomised, placebo-controlled trials. *Eur Arch Psychiatry Clin Neurosci* (2017). https://doi.org/10.1007/s00406-017-0852-4

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What We Think Matters



- Is this a challenge or a threat?
- Do I have the resources to handle it?
- Are my thoughts helpful/ dysfunctional?
- •What is my self-talk? Where does it come from?
- Is this what I was taught or what I believe?

Loneliness, Social Isolation, & Your Health

The World Today

evidenced by extensive use of antidepressants and anxiolytics.

financial problems, lack of purpose, meaning, a sense of despair,

hopelessness-the world has less color and texture.

familial, and spiritual underpinnings.

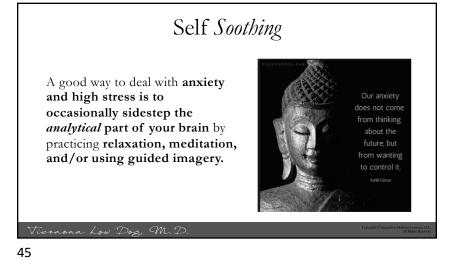
Yeah, I guess."

148 studies on the effects of social isolation on health found it is:

- Equal to 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 fa Cacioppo JT, et al. Ann NY Acad Sci 2011; 1231:17-22



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

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46

48



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

Resources for Stress Reduction

- *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 more advanced meditator. Can sort by location, activity and/or emotion. (small monthly fee, premium is \$30/yr.)

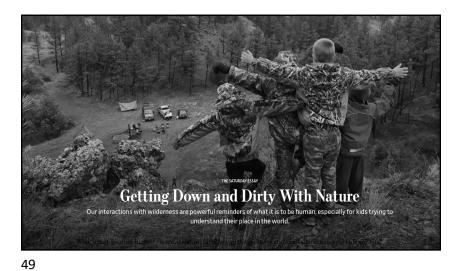
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I went to the woods because I wished to live deliberately, to front only the essential facts of life, and see if I could not learn what it had to teach, and not, when I came to die, discover that I had not lived.



Henry David Thoreau, Walden

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Whoever you are, no matter how lonely, the world offers itself to your imagination, calls to you like the wild geese, harsh and exciting—over and over announcing your place in the family of things.



Mary Oliver, Wild Geese

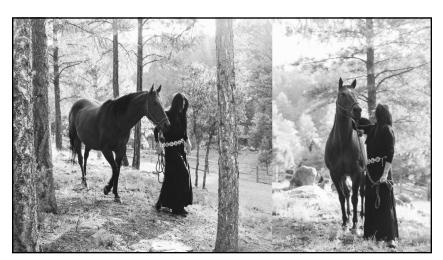
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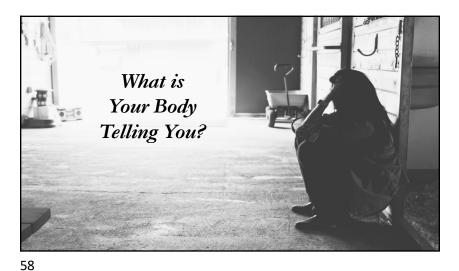
To see a World in a grain of sand And a Heaven in a wildflower Hold Infinity in the palm of your hand And Eterníty in an hour... William Blake, Auguries of Innocence

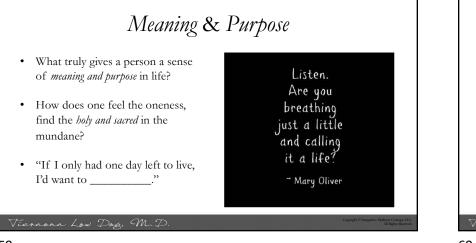


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56









"You must have a room, or a certain hour or so a day, where you don't know what was in the newspapers that morning, you don't know who your friends are, you don't know what you owe anybody, you don't know what anybody owes to you. This is a place where you can simply experience and bring forth what you are and what you might be. This is the place of creative incubation. At first you may find that nothing happens there. But if you have a sacred place and use it, something eventually will happen."

– Joseph Campbell

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It doesn't have to be the blue iris, it could be weeds in a vacant lot, or a few small stones; Just pay attention, then patch a few words together and don't try to make them elaborate, this isn't a contest but the doorway into thanks, and a silence in which another voice may speak.



Mary Oliver, Praying

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62

- 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.
- Eat food. Minimally processed, low glycemic load, diverse, and largely plant-based diet. Avoid endocrine disruptors in plastics, skin care products, pesticides. Stay hydrated. Water should be primary beverage for hydration.
- 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. Age/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, limit email in the evening.
- 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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