



Self Reflection

- How do you feel you are doing when it comes to:
 - Eating healthy food regularly
 - Getting regular physical activity
 - Going for preventive/early detection visits
 - Managing your stress
 - Nourishing your relationships
 - Creating space for relaxation
 - Positive self-talk
 - Feeling good about your body



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Wholesome Nutrition



- Fuel your body, do not feed your emotions.....
- Studies consistently show that a dietary pattern consisting of minimally processed foods, rich in plants and a balance of fats, proteins and wholesome carbs results in better mood and energy.

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

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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.

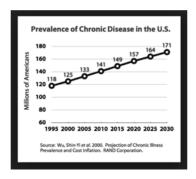


Breymeyer KL, et al. Appetite 2016; Dec 1;107:253-259.

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Dr. Low Dog's: Nutrition Prescription | September | S

Consequences of Inactivity



- 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

- Known since ancient times, exercise and physical activity are keys to a long and healthy life.
- Movement increases blood flow to the brain, promoting growth of new blood vessels. It stimulates the release of endorphins that diminish pain, as well as 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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 Meta-analysis: 92 studies for effect of physical activity on depression; 306 studies on anxiety concluded:

physical activity reduces the risk of and improves symptoms of depression and anxiety

Rebar AL, et al. Health Psychol Rev 2015; Mar 5:1-78.

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Yoga

- Literally, the "union of the divine," yoga has been practiced in India for thousands of years.
- Incorporates breathing exercises, postures, stretches, and meditation in order to help one gain greater acceptance, compassion and centering.
- Studies have found yoga to help ease stress, anxiety, and pain, while improving mood.
- There are many forms of yoga, so find the form you like. If you are a beginner, consider Gentle Yoga by Jane Adams. Super soothing.



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- Use a fitness tracker assess your baseline (normal activity 3 days) and see where you can improve.
- Use an app, join a class, grab a friend
- Make it a habit. Just do it.
- Do something you enjoy
- Focus on the *immediate* benefits you will feel once you start exercising regularly, as well as long-term health.

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Some Guidelines

- HPV vaccination age 11 or 12 years; vaccinate females through age 26 years, males through age 21; 2 doses if before 15th birthday, 3 doses if after.
- Women ages 21-29: PAP every 3 years (HPV test if PAP is abnormal)
- Women ages 30-65: PAP with HPV test every 5 years, or every 3 years PAP alone
- Evaluate risk for STD and test appropriately
- Clinical breast exam every 3 years (MRI + mammogram if under 40 and high risk)

http://www.cdc.gov/std/hpv/pap/default.htm#table2

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Additional Screening

- PAP every 3 years or with HPV test every 5 years.
 - Women > 65 years: stop screening if 3 negative consecutive PAPs or at least two negative HPV tests in previous 10 yrs. If smokes, has HPV or more advanced precancerous diagnosis, screening should continue until age 80
- Mammograms age 50 every 1-2 years
- DEXA scan at age 65, earlier if high risk for osteoporosis
- Check skin regularly, skin exam once per year

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The First Environment



- 1. Use **fresh food** rather than processed food
- 2. Reduce use of foods/beverages in cans/plastic containers, including food storage
- Minimize personal care products: moisturizers, cosmetics, shower gels, fragrances
- Avoid garden/household/pet pesticides or fungicides (such as fly sprays or strips, rose sprays, flea powders)
- 5. Avoid paint fumes
- 6. Only take **OTC analgesics or painkillers** when necessary
- Do not assume safety of products based on the absence of 'harmful' chemicals in their ingredients list, or the tag 'natural' (herbal or otherwise)

 $http://www.rcog.org.uk/files/rcog-^{\circ} \\ \hbox{$^{\circ}$C-corp/5.6.13ChemicalExposures.pdf}$

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Nutrient Deficiencies Pregnancy

- Vitamin E (52 %), magnesium (38 %), iron (57 %) and vitamin D (77 %) deficiency and suboptimal intakes of choline (95 %) and vitamin K (99 %) in pregnant women in Boston.
- Take a GOOD PRENATAL VITAMIN IF YOU COULD BECOME PREGNANT, ARE PREGNANT OR BREASTFEEDING.

Brunst KJ, et al. Public Health Nutr 2014; 17(9):1960-70.



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Journal of the American College of Nutrition

Product Used was Mega Food Blood Builder

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A Food-Derived Dietary Supplement Containing a Low Dose of Iron Improved Markers of Iron Status Among Nonanemic Iron-Deficient Women

Christopher R. D'Adamo, James S. Novick, Termeh M. Feinberg, Valerie J. Dawson & Larry E. Miller

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Choline

- Choline critical during fetal development, influencing mood regulation, cognitive development, stress regulation and lifelong memory function.
- 8-10% of adults or pregnant women meet adequate intake. Those eating eggs had highest levels.
- Look for prenatal with 200-300 mg of choline.

Blusztajn JK, et al. Neuroprotective actions of dietary choline *Nutrients* 2017; Jul 28;9(8). pii: E815.

Choline in Foods: http://naldc.nal.usda.gov/download/47335/PDF

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Iodine in Pregnancy

- Many reproductive aged women in US have marginal iodine status; salt in processed foods is not iodized.
- Deficiency associated with pregnancy loss and prematurity, and neurocognitive defects in baby.
- Iodine deficiency now accepted as the most common cause of preventable brain damage in the world.
- Mild to moderate iodine deficiency associated with higher incidence of ADHD and lower IQ in the baby.
- American Thyroid Association recommends pregnant/lactating women supplement: 150 mcg/d potassium iodide.



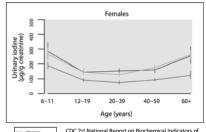
Gouncil on Environmental Health, et al. Paliatrica 2014; 133(6):1163-6 Perrine CG, et al. NHANES data: Some subgroups of reproductive age women in the United States may be at risk for iodine deficiency. J Nutr 2010; 140:1489-1494, 2010. PMID: 20554903

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Iodine Intake Pregnancy and Breastfeeding

- Data from National Health and Nutrition Examination Survey found iodine containing supplement use among pregnant and lactating women low in contrast with current recommendations.
 - Among pregnant women, only 17.8% used supplement with iodine.
 - Among lactating women, only 19.0% used supplement with iodine.

Gupta PM, et al. Use of Iodine-Containing Dietary Supplements Remains Low among Women of Reproductive Age in the United States: NHANES 2011-2014. Natrients 2018 Mar 29;10(4). pn: E422



CDC_2nd National Report on Biochemical Indicators of Management Programs of Pages 1 Pages 1

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Jackson KH, et al. Nutrients 2018, 10(12): 1933 Bisgaard H, et al. N Engl J Mad 2016; 375(26):2530-9 Middleton P, et al. Omega-3 fatty acid addition during pregnancy (review) Cachrane Database Syst. Rev. 2018 doi: 10.1002/14651858.

DHA from Fish or Supplements

- March of Dimes, Food and Agriculture Organization of UN, International Society for Study of Fatty Acids and Lipids, and World Association of Perinatal Medicine recommend at least 200 mg/day DHA from either fish or supplements.
- Reduces risk of premature birth (70 studies, more than 70,000 participants)
- Reduces risk of asthma in baby if taken during 3rd trimester.

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To Find Your State Recommendations: https://www.purdue.edu/hhs/nutr/fish4health/





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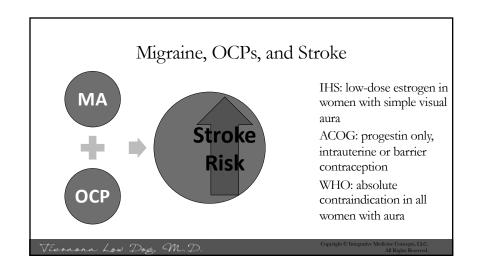


Magnesium for Migraines

- Migraine disproportionately affects women. Impacts 1 in 4 households. Studies show migraineurs have low brain magnesium during migraine attacks.
- Canadian Headache Society gave magnesium a strong recommendation for prophylaxis of migraine (also for riboflavin). Dose 300-400 mg/d, some up to 600 mg per day.
- Diarrhea most common side effect (glycinate, malate and citrate less GI complaints than oxide). Caution with supplementation in those with poor kidney function.

Rajapakse T, et al. Nutraceuticals in Migraine: A Summary of Existing Guidelines for Use. Headache 2016; 56(4):808-16.

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Current Recommendations for Menopause



• For women with **moderate to severe vasomotor symptoms**, depending on individual risk, and patient's willingness to accept risk, use the **lowest dose of estrogen** (with **progesterone**, if uterus intact) effective for the shortest amount of time possible.

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Hormone Route and Type

- Transdermal estrogen LEAST likely to cause blood clots.
- Estrogen alone does not increase risk of breast cancer.
- Natural progesterone associated with less risk of breast cancer and blood clots compared to synthetic progestogens.
- If symptoms are primarily urinary and/or vaginal, vaginal estrogen can be used with minimal systemic absorption.

Bhupathiraju SN, et al. Endoer Prac 2014; 20:1201-13 L-Hermite M. Climacteric. 2013 Aug;16 Suppl 1:44-53. Hale GE, et al. Trends Cardiovasc Med 2015; 25(6):540-9

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Salivary Testing



- NAMS does not recommend saliva testing to determine hormone levels
- Endocrine Society "salivary hormone tests are inaccurate and should not be considered reliable measures of hormones in the body."
- ACOG No biologically meaningful relationship between salivary sex steroidal hormone concentrations and free serum hormone levels.
 Salivary hormone levels vary with diet, time of day, and other variables
- Just no real reason to have salivary estrogen/progesterone done

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Genitourinary Syndrome of Menopause

- Dryness, burning, irritation; lack of lubrication, discomfort or pain, with intercourse; and urinary symptoms of urgency, dysuria and recurrent urinary tract infections.
- Vaginal estrogen can be continued as long as needed to relieve symptoms and considered when systemic estrogen is contraindicated.
- Vaginal lubricants and moisturizers can be used alone or in conjunction with vaginal estrogen. Osmolality of personal lubricant not to exceed 380 mOsm/kg and pH should be 3.8-4.5 (YES products meet criteria)

Neves-e-Castro M, et al. EMAS position statement. Maturitas 2015; 81(1): 88-92

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Soy and Hot Flashes



- Meta-analysis: soy isoflavones (median, 54 mg) significantly reduced frequency of hot flashes by 20.6% and severity by 26.2% (P = 0.001) compared with placebo.
- Isoflavone supplements providing > 18.8 mg of genistein twice as potent as lower doses.

 $Taku\ K,\ et\ al.\ \textit{Menopause}.\ 2012\ Jul; 19(7): 776-90.\ ,\ Thomas\ AJ,\ et\ al.\ \textit{Maturitas}.\ 2014; 78(4): 263-76.\ \ Position\ Statement\ NAMS:\ \textit{Menopause}.\ 2015\ Nov;\ 22(11): 1155-72$

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Jarrow Formulas		
Iso Rich Soy 32SVNGS (892 Grams Powder) Supplement Facts SUPPLIMENT INCTS Serving BY CONTRIBUTE: 13		
Protein	25 Gm	
Calcium	29 Mg	
Iron	4 Mg	
Isoflavones	56 Mg	
GENISTEIN/GENISTIN	28 Mg	
DAIDZEIN/DAIDZIN	23 Mg	
GLYCITEIN/GLYCITIN	5 Mg	
Saponins	200 Mg	

Soy and Cancer

- European Food Safety Authority concluded after a multi-year investigation that in postmenopausal women, soy isoflavones *do not* adversely affect the breast, thyroid or uterus.
- North American Menopause Society concluded that soy isoflavones do not increase risk of breast or endometrial cancer.
- American Cancer Society and American Institute for Cancer Research confirm soy foods can be safely consumed by women with breast cancer.

Panel on Food Additives and Nutrient Sources added to Food Scientific opinion on the risk assessment for peri- and post-menopausal women taking food supplements containing isolated isoflavones. EFSA J. 2015;13:4246.

Messina M. Nutrients 2016; 8(12): 754

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Hypnosis

- 187 menopausal women with minimum of 7 hot flashes/d randomized to 5 weekly hypnosis sessions or structured control.
- At 12 weeks: mean reduction in physiologically monitored hot flashes 5.92 (57%) for clinical hypnosis and 0.88 (10%) for controls.
- Significant improvement in sleep quality and treatment satisfaction compared to controls.



Elkins GR, et al. Menopause 2013; 20(3):291-8

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Acupuncture

- Numerous studies found acupuncture beneficial for relieving hot flashes and improving quality of life.
- Review and meta-analysis of 31 RCTs found acupuncture significantly reduces sleep disturbances during menopause.



Chiu HY, et al. Obstet Gynecol 2016; 127(3): 507-15

Vitamin D: Bones and Balance

- · Low vitamin D increases risk of falls and gait instability. Exercise, calcium and vitamin D supplementation all decrease falling in elders.
- Meta-analysis National Osteoporosis Foundation: calcium plus vitamin D supplementation produced a significant 15 % reduced risk total fractures and 30% reduced risk hip fracture.

Tricco AC, et al. Comparisons of Interventions for Preventing Falls in Older Adults: A Systematic Review and Meta-analysis. JAMA 2017; Nov 7;318(17):1687-1699.

Weaver CM. Calcium plus vitamin D supplementation and risk of fractures: an updated metaanalysis from the National Osteoporosis Foundation. Osteoporosis Int 2016 Jan;27(1):367-76



Other Nutrients

- · Calcium, magnesium, vitamins D and K contribute independently and collectively to bone health.
- Beneficial role of vitamin K, particularly vitamin K2, in bone and cardiovascular health reasonably well supported scientifically, with several preclinical, epidemiological, and clinical studies published over the last decade.



Karpinski M, et al. Roles of Vitamins D and K, Nutrition, and Lifestyle in Low-Energy Bone Fractures in Children and Young Adults. J Am Coll Nutr 2017 Jul;36(5):399-412.

Tai Chi



- Multiple studies show tai chi reduces the *risk of falls* in elders, post-stroke, and Parkinson's.
- Systematic review found effective for relieving pain and improving physical function in those with osteoarthritis.

Sun Z, et al. Effects of tai chi exercise on bone health in perimenopausal and postmenopausal women: a systematic review and meta-analysis. Osteoporosis Int. 2016 postmenopausal wor Oct;27(10):2901-11

Make Friends with Your Microbes!

- Go to usprobiotics.com to determine what products have been studied.
- · Gastrointestinal
 - Reduce symptoms of irritable bowel syndrome
 - · Reduce incidence of antibiotic associated diarrhea
- · Genito-urinary
 - · Reduce the risk of recurrent bladder infections
 - · Help reduce recurrent yeast infections
- Pregnanc
 - Reduce allergies and eczema in high risk children, especially if born by Cesarean section, if taken last 2 months of pregnancy.
 - · Go to usprobioticguide.com to find evidence based product

Grin PM, et al. Can J Urol 2013 Feb;20(1):6607-14; Ford AC, et al. Am J Gastroenterol 2014; 109(10):1547-1561

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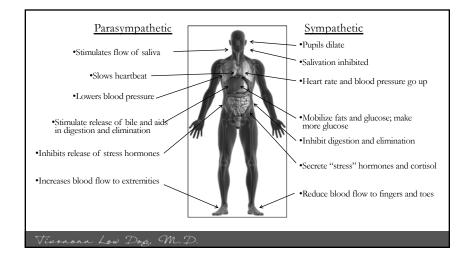
Unfriendly Bacteria

 High cortisol levels are 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 prolonged elevation of stress hormones may shorten our lifespan by 15 years.



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Complexity of the Unhealthy Lifestyle

- Poor diet, nutrient deficiencies
- Sedentary, high stress lifestyles
- Poor sleep, too much screen time
- Inadequate social support
- Strong emphasis on "knowing" and "having""

Much of what is making us sick cannot be fixed with more and more pills.....

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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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It All Starts With.... YOU

- Unlike many medical problems, when it comes to emotional and mental health..... there are no x-rays or lab tests that can give you a diagnosis.
- It all comes down to the story, to *your* story. Your dreams for the future, how and what you are eating, how well you are sleeping, your level of happiness, your ability to focus, your relationships, and more.
- If you are 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. If you are taking medication and things have shifted, seek help in case your treatment needs to be adjusted.

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The Need for Sleep

- · Sleep is a biological requirement for human life
- Much of sleep quality is due to our behaviors, both genetically driven (we like to lay down to sleep, we prefer to sleep at night) and environmentally driven (working late at night, excessive caffeine or alcohol consumption).
- Sleep is an abrupt shutdown of our perceptual interaction with our environment. Perception (sight, taste, sound) dramatically diminishes but brain highly active.



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Sleep Stages

- Stage 1: Lasts a few minutes, the first stage of sleep is 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. This is when body repairs itself and boosts immune function. Also 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 longterm 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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Lack of Sleep



- Tremendous amount of research shows that chronic sleep problems can lead to weight gain, obesity, diabetes (33% increased risk type 2 diabetes) and heart disease.
- According to CDC shows that 1 in 3 Americans do not get sufficient sleep.
- Studies show as our time asleep declines, it impairs working memory, processing speed and executive function. Caffeine can temporarily counteract all but executive function.
- Women report more sleep disruption than men (pregnancy, childrearing, menopause), though men have more sleep apnea.

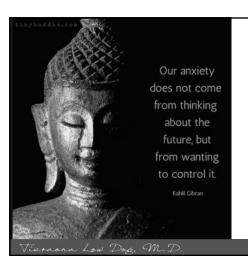
Shan Z, et al. Diabetes Care 2015;38(3):529-37.

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The Bedroom

- No alarm clocks with display lights. Make sure there is no blue light emitting from the television or computers, or consider amber blue blocking glasses.
 Work WITH your body's normal production of melatonin, not against it.
- Turn down your thermostat to 65-68 F. Wear socks to bed if feet get cold.
- · Use black out blinds or curtains to eliminate external light.
- · Replace mattress every 10 years and pillows every 2 years.
- · Have pets sleep in their own beds.
- Make it a sanctuary. Nice bed linens, peaceful, a lamp and good book by the bed.
- Journaling can help if your mind is often preoccupied at night with "to do" lists.
 Gratitude journaling can also be a great way to ease into sleep.
- Melatonin 2-3 mg controlled release 2 hours before bedtime might be option.

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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.

Mindfulness Meditation

- Meditation excellent for reducing stress perception and pain intensity, while elevating mood.
- Quiets the stream of thoughts that rage in our mind.
- 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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Are you breathing just a little and calling it a life?

"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."





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The privilege of a lifetime is being who you are.

Joseph Campbell



Vieraona Low Dog, M. D



- 1. **Move more.** Whether it's the 7 minute workout, cycling, yoga, or taking long walks one of the 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 women lack when it comes to 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** or tech "light", and **limit work 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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- Women's health: state of well-being in which a woman feels creative, strong and wise.
- Her innate healing power is vital and intact.
- She feels valued and heard.
- She is free to choose and decide; she honors her own rhythms and journey.

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