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The "Blue Zones" are communities where common elements of lifestyle, diet, and outlook have led to a superior quality and length of life in the elderly populations.



Areas of highest concentration of CENTENARIANS

Buettner, D. <u>The Blue Zones</u>, 2008







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Chronic Back Pain April 4, 2017 New ACP Guidelines Recommendation 1: Given that most patients with acute or ÷. subacute low back pain improve over time regardless of treatment, clinicians and patients should select nonpharmacologic treatment with superficial heat (moderate-quality evidence), massage, acupuncture, or spinal manipulation (low-quality evidence). If pharmacologic treatment is desired, clinicians and patients should select nonsteroidal anti-inflammatory drugs or skeletal muscle relaxants (moderate-quality evidence). (Grade: strong recommendation) Ann Intern Med. 2017;166(7):514-530.

9 • Recommendation 2: For patients with chronic low back pain, clinicians and patients should initially select nonpharmacologic treatment with exercise, multidisciplinary rehabilitation, acupuncture, mindfulnessbased stress reduction (moderate-quality evidence), tai chi, yoga, motor control exercise, progressive relaxation, electromyography biofeedback, low-level laser therapy, operant therapy, cognitive behavioral therapy, or spinal manipulation (low-quality evidence). (Grade: strong recommendation) Ann Intern Med. 2017;166(7):514-530.

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20 Integrative Non Pharmacological Approaches Mind Body: MBSR, Biofeedback Mutritional: Anti-inflammatory Diet, Supplements Body Body Based: Massage, PT, Osteopathy, Chiro Energy Based: Reiki, Tai Chi, Acupuncture Movement Based: Alexander, Yoga Interventional: Acupuncture, Trigger Points Injections





Case – 12 weeks follow up

"Well I did get very high few times, reminded me of my hippie years. After few weeks I figured out how to dose it just right."
"I have no idea if supplements are doing anything but acupuncture has been somewhat helpful."

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- "I have to choose pot over acupuncture, all these costs add up."
 "Capi't you write me some letter for Medicare? I mean why all your effective treatments are not covered, while the medication that admost killed me is?"
- Yoh, and my pimary care doctor wants you to call him. He thinks I should not use pot as it is very dangerous at my age and he wants to put me on another medication instead, but I don't think so."











CONCLUSIONS FOR: THERAPEUTIC EFFECTS There is conclusive or substantial evidence that cannabis or cannabinoids are effective: • for the treatment for chronic pain in adults (cannabis) (4-1) • Antiemetics in the treatment of chemotherapy-induced nauses and vomiting (oral cannabinoids) (4-3) • Antiemetics in the treatment of chemotherapy-induced nauses and vomiting (oral cannabinoids) (4-3) • For improving patient-reported multiple sclerosis spasticily symptoms (oral cannabinoids) (4-3) • There is moderate evidence that cannabis or cannabinoids are effective for: • Improving short-term sleep outcomes in individuals with sleep disturbance associated with obstructive sleep apnea syndrome; fibromyalgia, chronic pain, and multiple sclerosis (cannabinoids) (4-19) There is limited evidence that cannabis or cannabinoids are effective for: • Increasing appetite and decreasing weight loss associated with HIV/ADS (cannabis and cannabinoids) (4-4a) • Improving joincian-measure durble pathere sis pasticity symptoms (oral cannabinoids) (4-4a) • Improving grinclina-measure durble sclerosis spasticity symptoms (oral cannabinoids) (4-4a) • Improving symptoms of Tourtete syndrome (THC caputes) (4-8) • Improving samptoms of postraumatic stress disorder (nabilone; one single, small fair quality trial) (4-20) There is limited evidence that cannabis or cannabinoids are effective for: • Better outcomes (i.e., mortality, disability) after a traumatic brain injury or intracranial hemorrhage (4-15) There is limited evidence that cannabis or cannabinoids are inflective for: • Improving symptoms associated with glaucoma (cannabinoids) (4-13) • Improving intracoular pressure associated with glaucoma (cannabinoids) (4-13) • Improving intracoular pressure associated with glaucoma (cannabinoids) (4-14) • Improving intracoular pressure associated with glaucoma (cannabinoids) (4-13) • Improving intracoular pressure associated with glaucoma (cannabinoids) (4-13) • Improving intracoular pressure associated with glaucoma (cannabinoids) (4-14) •

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High

Marijuana

LSD

Psilocybi

0.002

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Cannabis Toxicity/Addiction

Nicotine

Pentobarbital Cocaine

Ketamine

Rohypnol Alcohol

MDMA

Mescaline

Morphine

Legend ■ Narcotics ● Depressant △ Stimulants ◆ Anesthetics ■ Hallucinoge ▼ Cannabis

R. S. Gable, et al 2006

Active/Lethal Dose Ratio and Dependence Potential of Psychoactive Drugs

Ephedra

Nitrous oxide

Caffeine

0.01 0.02 Active Dose / Lethal Dose

















- Dose 10+ billion CFUs/capsule twice/day
- As many different strains as possible



- Make sure patients know how to handle them refrigerate
- Know probiotics rich foods and be able to recommend discuss with patients
 - Kefir highest probiotic concentration from common US foods
 - Yogurt, Kombucha, Kim Chi

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Length of Intensive Probiotic course is not clear. Personally I recommend entire length of antibiotics plus at least 4 more weeks.

















Abreviations D	Salayoos Secto	dis (dal 64	Vitaniski, Q. ard MM	Copper	Manjance	Naprsiun	E.	Vitamin (Vitaniı D	(an	Common dieter
ubreidon: DHA Joozahrean in call PH. Gouegentero in col	~	BN enhanes calcium also price and stimulies have "humations high (1610 ratio associated with lower BND	Inputat for unvesion of extendion into an active form to stimulate borre mixed testion	Copye deficiency can block normal rollwayen production; dietasy copyer intale should be adequate	Nekindes, köndelsen yardsoch (24 mg ae konntraveks ofore	Nagresium deficiency has been Indector increased risk of unskepponsis	Ethenos datun absoption and vitamin D methodam. High does may negatively alfest love health	Earntal collagen formation substats: High Intale: associated with Investment lass in both ebbelly vomen and men	hosses Glard med titular calcum abarption	Nethenism of Action	Common Bietary supplements used for orthopponois
<u>ş.</u>	34300 ng ci satat	Higotennen. Avolusing>ligit	W445 mj	QF1 mg	full.	III-SII ny bes lapador fiatipe	50 mg	ja-suu v	SI-SIII larne Téfört	bah) Dosing	
	Well tobecaled; no incorrect risk of uterine samer demonstrated	"Fibly" afertazz, blasing higt doe may inoreze risk et bleeding	Vare reported, 10 should not be used in priferit on anticapilation	longeri anger intele form supplements hat besel intel to inorread sid of Abbeimer demontio	Overboer af manageneer can cause revendragi symptoms and has been deexched; high-doze supplementation should be avoided	Vagresin on saze darher Føler ockju Galor advæd menal hæner higt does om inorær bore løs	Well tablaced at typical boost, producing high boost >50 mg/d carr cause copper deficiency	Diertes vith high bizes	lêŋ hiji dae can cuxe dan ke	SileBlack	
	1	y feter	ie iei	BI SIL	\$ '\$.	100 M	ng =	a	4	lebranes	

52	Osteoporosis - Integrative Approach					
Table 1 Integrative approaches to preventing decline and improving muscle strength and coordination						
Diet	Mediterranean diet, anti-inflammatory diet (include fatty fish, more vegetables and fruits), increase carotenoid intake, soy					
Exercise	Promote mobility, walking, resistance training, yoga tai chi, comprehensive fall prevention programs					
Supplements	Fish oil, vitamin D, whey protein, soy protein, and soy isoflavones, amino acid supplementation; anti-inflammatory herbs like curcumin, if general inflammation is present or suspected; role of vitamin E is not clear					
Androgens/ testosterone	Only if deficiency state is present after careful assessment of risks; not recommended for routine use					
placed Strontiu Strokes.	m Renolate in Europe – Increase risk of Heart Attacks and					

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72 year old woman with Osteo	oporosis
53 Bone Density Exams Results: Region Age BMO T-score BMO Change NMO Change Total Hip(Left) Statist Leadly-os significant BMO Change NS Baseline Vs Baseline Vs Previous Total Hip(Left) Statist Leadly-os significant Change NS Previous Statist 68/15/2016 90 -2.1 0.686(*3.80)* 0.689(-1.83) 0.689(-5.83) 0.689(-5.83) 0.689(-5.83) 0.689(-5.83) 0.689(-5.83) 0.699(-2.13) 0.696(-2.13)	
Femoral Neck(Left) Statistically significant increase from previous scan. 05/10/2016 72 0.583 -2.4 0.083(-6.08)* 0.083(6.48)* 08/25/2014 71 0.543 -2.7 0.073(-11.7%) -0.603(-5.48)* 08/25/2014 71 0.543 -2.7 0.013(-2.13) -0.614(-2.23) 08/15/2012 09 0.621 -2.1 0.000(0.13) -0.601(-0.23) 08/05/2011 69 0.52 -2.0 0.02(-0.33) -0.603(-0.63) 07/26/2016 60 -2.2 0.012(-1.13%) -0.603(-0.63) 07/26/2016 60 -2.2 0.012(-1.43%) -0.603(-0.63) 07/126/209 60 0.21 -2.1 0.609(-1.4%) -0.603(-0.63) 07/13/2097 64 0.621 -2.1 -0.609(-1.4%) -0.609(-1.4%) 07/13/2007 64 0.621 -2.1 -0.609(-1.4%) -0.60808 g/cm2	MK4 (Vitamin K2) dose increased to 45mg/day

