

# Conversations About Complementary Therapies and PD

### WELCOME TO EXPERT BRIEFINGS!

- ✓ The program will begin at the top of the hour
- ✓ Meeting attendees will be muted

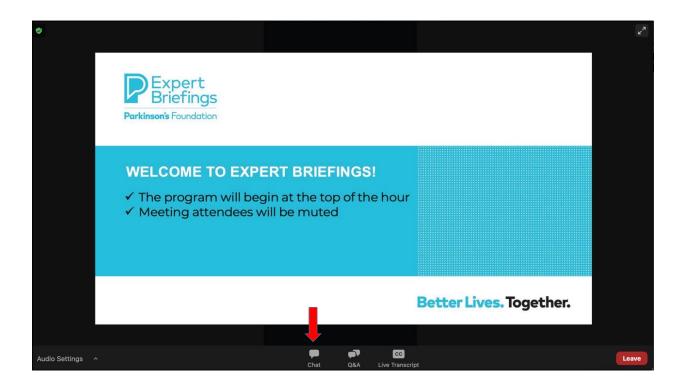
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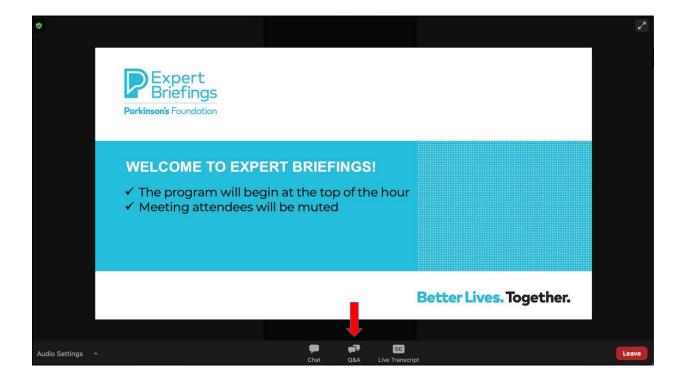


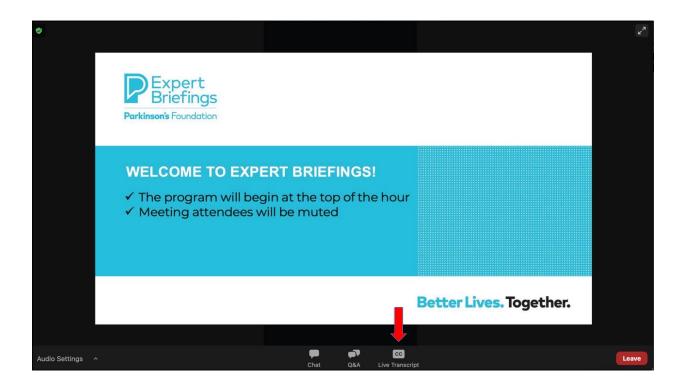
Conversations About Complementary Therapies and PD

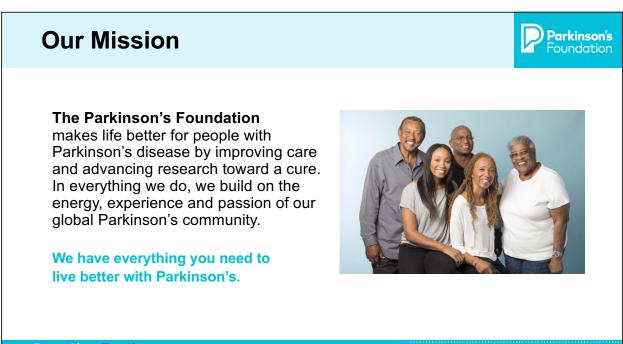
James Beck, PhD Chief Scientific Officer, Parkinson's Foundation

Natalie Diaz, MD Pacific Neuroscience Institute





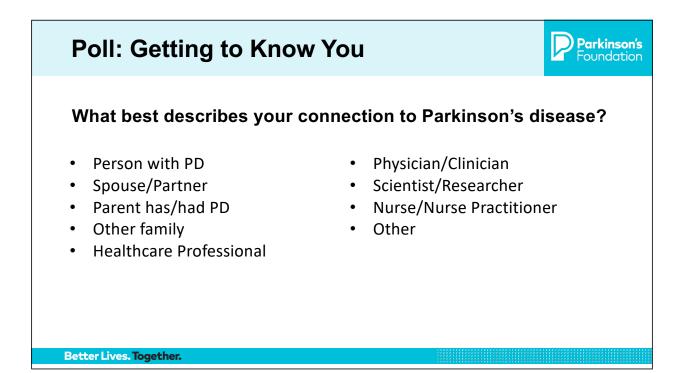








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# **Meet Your Presenter**





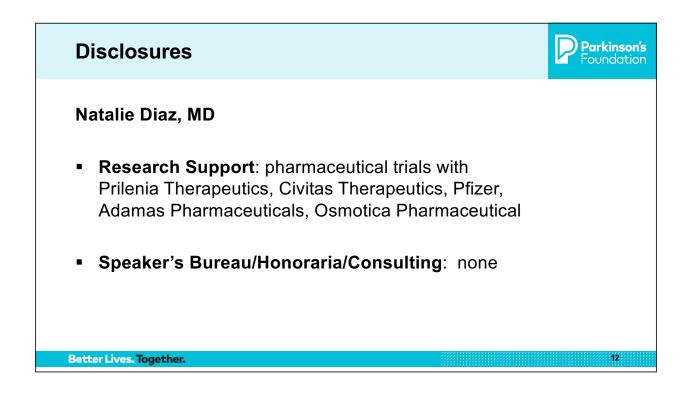
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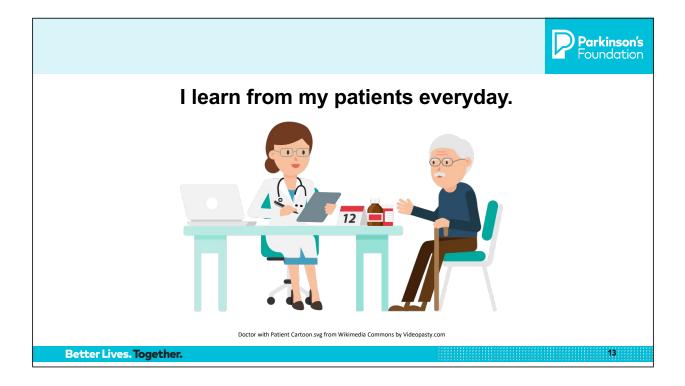
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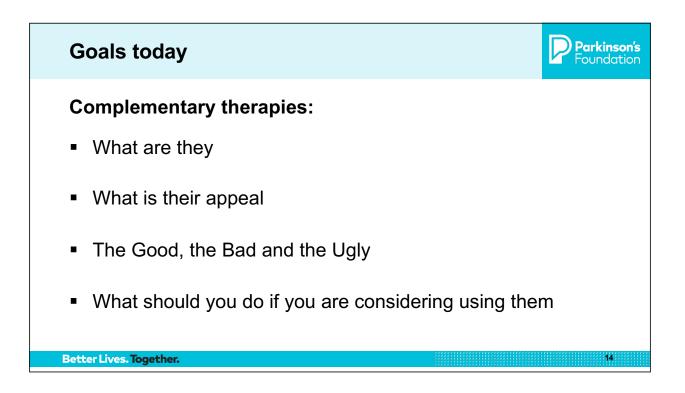


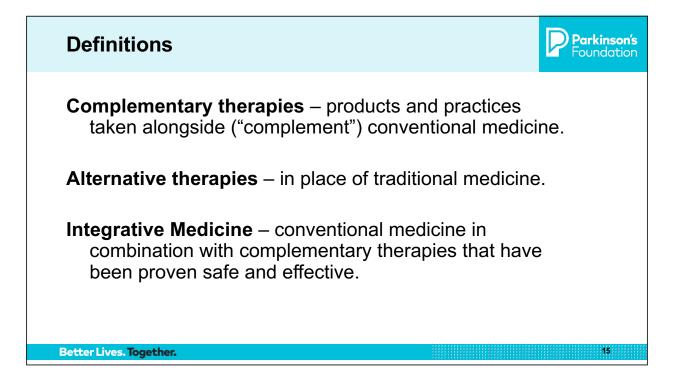
Conversations About Complementary Therapies and Parkinson's Disease

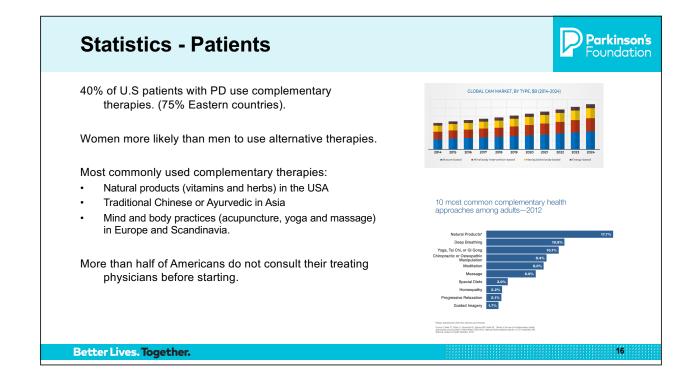
> Natalie Diaz, MD Pacific Neuroscience Institute Torrance, CA

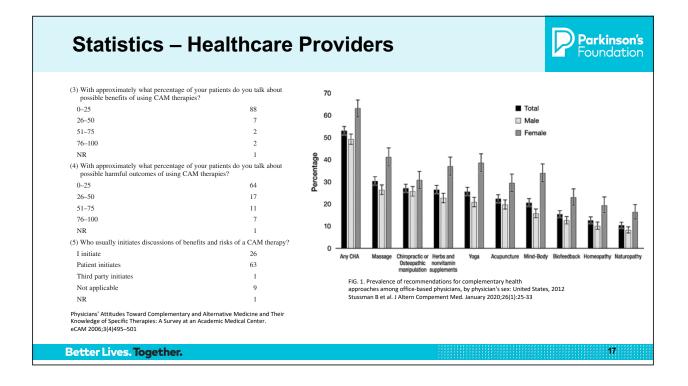


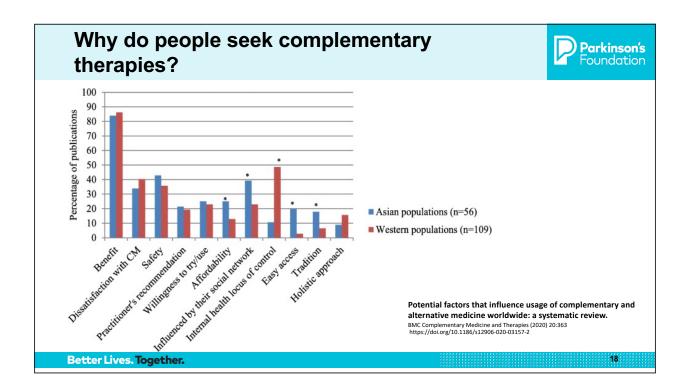


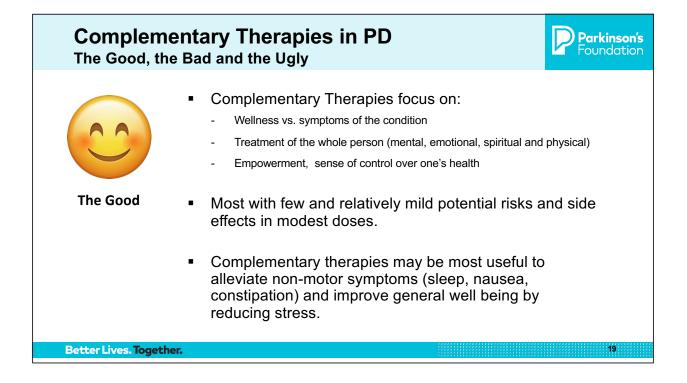


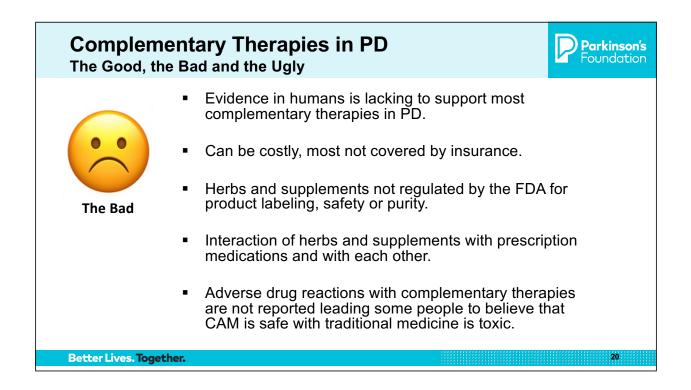


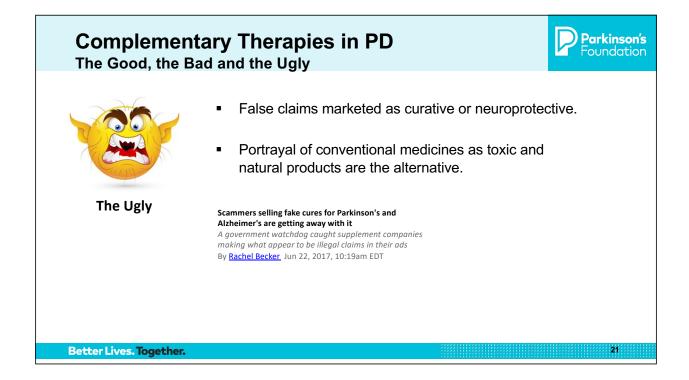


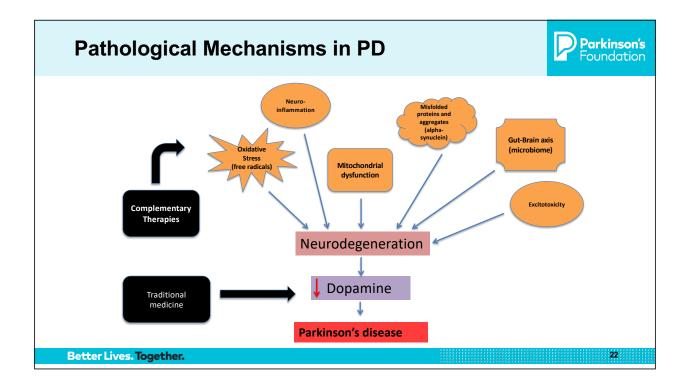


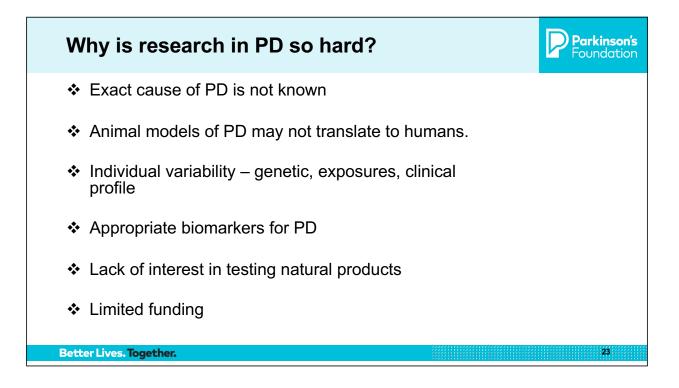


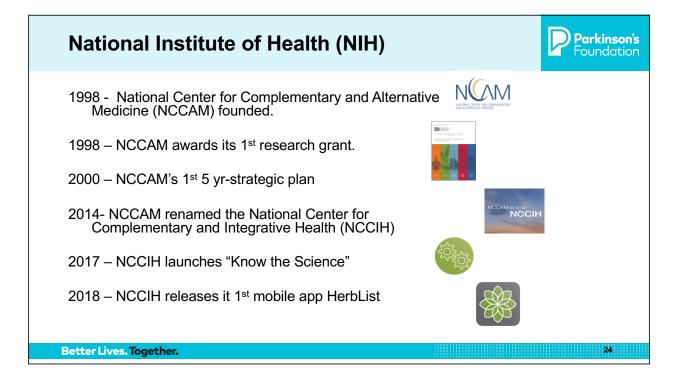












# NCCIH Classification of Complementary Therapies

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Biologically Based	Herbs, vitamins, dietary supplements, functional foods Biofeedback, mediation (mindfulness), relaxation techniques, guided imagery	
Mind-Body Techniques		
Manipulative and Body Based Methods	Massage, chiropractic manipulation, reflexology, whole body vibrational therapy	
Energy Therapies	Acupuncture, acupressure, Qi-gong, T'ai chi, Reiki	
Alternative Medical Systems	Traditional Chinese or Ayurvedic medicine, homeopathy	

# Vitamins and Supplements in PD



Product	Evidence	Side effects and toxicity
Coenzyme Q10	2 high quality studies (total (680 patients) up to 2400mg daily. Final results- safe and well tolerated no evidence of clinical benefits.	Can promote clotting. Interacts with blood thinners (Coumadin) aspirin, plavix. Can lower blood pressure.
Creatine	2 high quality studies. No effect on PD progression or symptoms. Possibly increases mood	
Vitamin E	DATATOP study – Vit E does not stop PD progression	Can increase risk of bleeding, interaction with Coumadin, aspirin and plavix. In men, doses >400 IU associated with prostate cancer
Glutathione	oral, intravenous and intanasal. No benefit.	
Omega-3 faTTY ACIDS	1000mg O3FA (flaxseed oil) and 400 IU vitmain E may decrease inflammatory markers and improve motor function	GI and neurological side effects
CDP-Choline	400mg 3 times daily - may lower levodopa dose	
Phosphatidylcholine	100mg 3 times daily improve mood and motor function	Interacts with other medications
Resveratrol		Interact with aspirin/Plavix and anticoagulants, also mild estrogenic activity
Beta carotene/Vitamin A		Skin pigmentation (beta carotene) Nausea, dizziness, headaches (vitamin A)
VITAMIN B3 (NIACIN)		Facial flushing anf tingling
Vitamin C		
VITAMIN D3		Lower effect of statins. Elevate blood calcium level if Vitamin D taken with thiazide diurectics
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lives. Together.		

Herbs	and Botanica	ls			
	Product	Warnings			
	Gingko biloba	Ses – headache, stomach upset, palpitation, constipation. Can interact with many medications including blood thinners.			
	Curcumin	Nausea, diarrhea			
	Ginseng				
	Camellia sinensis (Green, black and oolong teas)	Nausea, rash, jitteriness, liver toxicity May cause weight loss			
	Epigallocatechine-3-gallate (EGCG)	Dizziness, low blood sugar			
	Lion's Mane (Hericium erinaceus)	Increased bleeding, interaction with blood thinners			
	Milk thistle	Abdoninal bloating, duarrhea, loss of appetite May lower blood sugar in people with diabetes			

Headache, nausea.

Low blood pressure, sedation, proarrhthymic effect

Headache, nausea, muscle aches Estrogen-like effects – bloating, weight gain, tender breasts

Quercetin

Galliic Acid Vincamine

Red clover

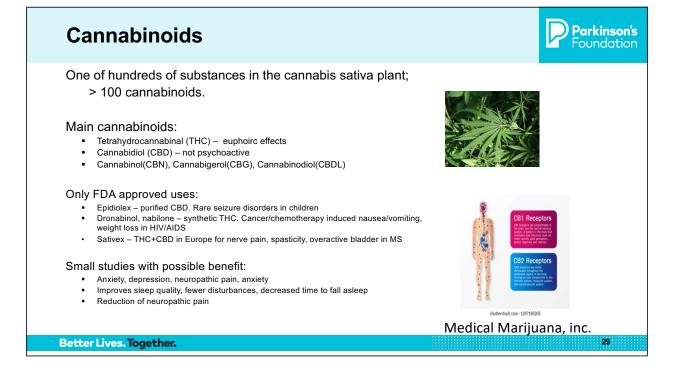
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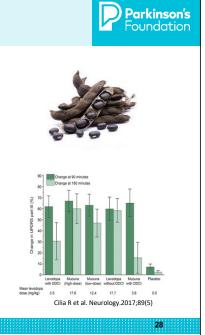
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## **Mucuna Pruriens (velvet bean)**

- Legume found in Southeast Asia
- Seeds contain about 6-9% levodopa by weight
- Evidence:
  - 2 single dose studies (26 patients total) MP with faster action, longer duration than carbidopa/levodopa. Similar efficacy. No worsening of dyskinesia.
  - Longer study, 14 patient, 16 weeks crossover 50% discontinued due to side effects or worsening motor function
- Drawbacks:
  - Long-term use may become complicated, efficacy or safety not known
  - Edible products have variable amount of levodopa and not regulated for content or contamination
  - Nausea, bloating, insomnia, headache, confusion, hallucinations
  - Interact with with meds for diabetes, antidepressants, can lower blood pressure





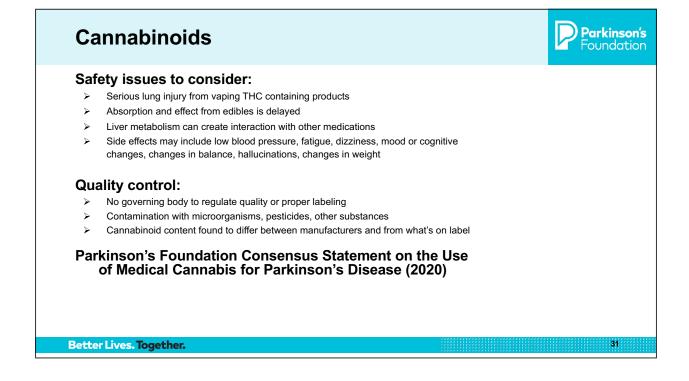
## Cannabinoids



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Study	# patients	Product	Results
Sieradzan et al	5	Nabilone (synthetic THC)	Reduction in dyskinesia intensity and total time; Improvement in painful dystonia (2 patients)
Carroll et al	17	Cannador (CBD+THC)	No improvement in motor function or dyskinesias
Mesnage et al	8	Rimonabant (selective CB1R blocker)	No effect on motor symptoms or dyskinesias
Chagas et al	21	CBD (2 doses)	No change in motor function. Improved QOL in high dose group

Mesnage V, Houeto JL, Bonnet AM, et al. . Neurokinin B, neurotensin, and cannabinoid receptor antagonists and Parkinson's disease. *Clin Neuropharmacol.* 2004
 Sieradzan KA, Fox SH, Hill M, et al. . Cannabinoids reduce levodopa-induced dyskinesia in Parkinson's disease: a pilot study. *Neurology* 2001;57:2108–2111

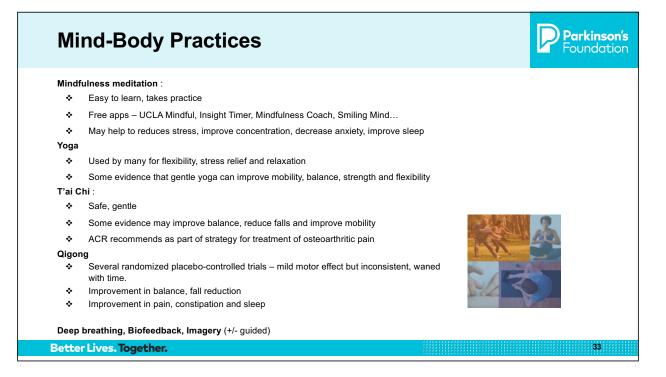


# Other useful supplements



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Melatonin – useful for sleep onset insomnia and dream enactment Chamomile – may help sleep and anxiety. Passionflower – may help sleep and anxiety Valerian root – may help sleep. Ses may include headache, stomach upset and mental fog in some people Ginger – can cause heartburn, diarrhea Peppermint oil – may help indigestion Flaxseed/flaxseed oil – contains fiber, may help constipation Cranberry extract – may reduce the risk of recurrent UTI



# **Manipulative and Body-Based Practices**

### Osteopathic - cranio-sacral therapy

- Gentle touch to manipulate the joints in the skull, pelvis, spine.
- > Some evidence of effect for neuropathic pain.

### Massage

- > Relief of muscle tension, neck and back pain.
- May help circulation.

### Whole body vibration

- Several studies, when compared vs tradition physiotherapy some advantage in gait and motor function.
- > Inconsistent results.



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## **Traditional Medicine Systems**

### **Traditional Chinese Medicine:**

- In existence for nearly 3,000 years
- Focuses on restoring balance of life force (chi)
- Incorporates herbal medicine, acupuncture, acupressure and dietary modification

**Parkinson's** 

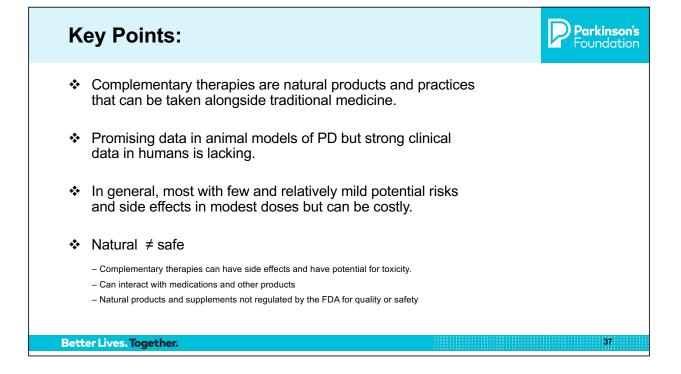
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### Ayurvedic medicine

- In practice for nearly 5,000 years
- Emphasizes balance of mind, body and spirit with the environment and restoring harmony

### **Native American Medicine**

- ♦ Physical well-being associated with spiritual balance
- Includes prayer, healing touch, use of herbs, teas, tinctures and healing rituals











# Resources and Support Image: Conduction Image: Conduction Aware in Care Parkinson.org/AwareInCare Parkinson.org/PDLibrary Image: Conduction PD Library Parkinson.org/PDLibrary Parkinson.org/PDLibrary

PD Health @ Home Parkinson.org/PDHealth

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