Complementary and Alternative Medicine For Parkinson's Disease



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- Assessing Therapies: Benefit/Risk (Safety)
- Acupuncture and Tai Chi
- Stress and the Brain
- Supplements
- Conclusions





- Is it Beneficial?
- Is it Cost Effective?
- Practitioner Training and License

OK

High Benefit - Safe - Low Cost

Unknown Benefit - Safe - Low cost

Probably OK

Unknown Benefit - Safe - High cost

Question

Unknown benefit – Unknown Safety – High cost











How does it work? Meridians and Health Meridians are pathways where Qi flows Qi is what nourishes the body Problems occur when there is Qi blockage Acupuncture uses needles to unblock Qi Acupuncture points are not anatomical structures We still do not know how acupuncture works









Tai Chi is a Chinese system of slow, meditative movements designed for relaxation, balance, and health

In the US it is a type of Mind-Body Medicine





















Adrenaline and Cortisol are Released

- Increases Heart Rate
- Increases Respiration Rate
- Increases Blood Pressure
- Increases Glucose



- Increases Stamina
- Increases Strength
- Increases Reaction Time
- Enhances Focus and Mental Acuity













Adrenaline and Cortisol are Released

- Increases Heart Rate
- Increases Respiration Rate
- Increases Blood Pressure
- Increases Glucose

Long-term



























There are many ways to reduce stress



























One prospective cohort (n=5,289) study found that diet-derived omega-3 fatty acids significantly decrease risk of PD by 35%

de Lau et al. Neurology 2005

Omega-3 Fatty Acids in PD

One animal study found that DHA (100 mg/kg) along with levadopa significantly decreased levadopainduced dyskinesias compared to animal receiving levadopa alone

Samadi et al. Ann Neurol 2006.

Dietary sources	
	IU/serving
Cod Liver oil (1 tablespoon)	1,360
Salmon (3.5 ounces cooked)	360
Tuna fish (3 ounces canned in oil)	200
Nonfat Milk (1 cup, vit. D fortified)	98
Cereal (1 cup, vit. D fortified)	40
Egg (one)	20
Swiss cheese (1 ounce)	12
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- Ayurvedic herb from India that contains L-dopa
- 12 week open label (n=60)
- 26 on L-dopa therapy, significant improvement in Honen Yahr and UPDRS scores (HP-200 PD study group, JAMC 1995)

