Turmeric Produces 'Remarkable' Recovery in Alzheimer's Patients

Turmeric has been used in India for over 5,000 years, which is likely why still today both rural and urban populations have some of the lowest prevalence rates of Alzheimer’s disease (AD) in the world. A recent study on patients with AD found that less than a gram of turmeric daily, taken for three months, resulted in ‘remarkable improvements.’

Alzheimer's Disease: A Disturbingly Common Modern Rite of Passage

A diagnosis of Alzheimer’s disease (AD), sadly, has become a rite of passage in so-called developed countries. AD is considered the most common form of dementia, which is defined as a serious loss of cognitive function in previously unimpaired persons, beyond what is expected from normal aging.

A 2006 study estimated that 26 million people throughout the world suffer from this condition, and that by 2050, the prevalence will quadruple, by which time 1 in 85 persons worldwide will be afflicted with the disease.[1]

Given the global extent of the problem, interest in safe and effective preventive and therapeutic interventions within the conventional medical and alternative professions alike are growing.

Unfortunately, conventional drug-based approaches amount to declaring chemical war upon the problem, a mistake which we have documented elsewhere, and which can result in serious neurological harm, as evidenced by the fact that this drug class carries an alarmingly high risk for seizures, according to World Health Organization post-marketing surveillance statistics.[i][2]

What the general public is therefore growing most responsive to is using time-tested, safe, natural and otherwise more effective therapies that rely on foods, spices and familiar culinary ingredients.

Remarkable Recoveries Reported after Administration of Turmeric

Late last year, a remarkable study was published in the journal Ayu titled "Effects of turmeric on Alzheimer's disease with behavioral and psychological symptoms of dementia." [ii]

Researchers described three patients with Alzheimer's disease whose behavioral symptoms were "improved remarkably" as a result of consuming 764 milligram of turmeric (curcumin 100 mg/day) for 12 weeks. According to the study:

"All three patients exhibited irritability, agitation, anxiety, and apathy, two patients suffer from urinary incontinence and wonderings. They were prescribed turmeric powder capsules and started recovering from these symptoms without any adverse reaction in the clinical symptom and laboratory data.”
After only 3 months of treatment, both the patients’ symptoms and the burden on their caregivers were significantly decreased.

The report describes the improvements thusly:

> "In one case, the Mini-Mental State Examination (MMSE) score was up five points, from 12/30 to 17/30. In the other two cases, no significant change was seen in the MMSE; however, they came to recognize their family within 1 year treatment. All cases have been taking turmeric for more than 1 year, re-exacerbation of BPSD was not seen."

This study illustrates just how powerful a simple natural intervention using a time-tested culinary herb can be.

Given that turmeric has been used medicinally and as a culinary ingredient for over 5,000 years in Indian culture, even attaining the status of a ‘Golden Goddess,’ we should not be surprised at this result. Indeed, epidemiological studies of Indian populations reveal that they have a remarkably lower prevalence of Alzheimer's disease relative to Western nations, [3] and this is true for both rural and more "Westernized" urban areas of India.[4]

Could turmeric be a major reason for this?

**Turmeric's Anti-Alzheimer's Properties**

The GreenMedInfo.com database now contains a broad range of published studies on the value of turmeric, and its primary polyphenol curcumin (which gives it its golden hue), for Alzheimer's disease prevention and treatment.*

While there are 114 studies on our Turmeric research page indicating turmeric has a neuroprotective set of physiological actions, [5] 30 of these studies are directly connected to turmeric's anti-Alzheimer's disease properties.**

Two of these studies are particularly promising, as they reveal that curcumin is capable of enhancing the clearance of the pathological amyloid–beta plaque in Alzheimer's disease patients,[6] and that in combination with vitamin D3 the neurorestorative process is further enhanced.[7]

Additional preclinical research indicates curcumin (and its analogs) has inhibitory and protective effects against Alzheimer's disease associated β-amyloid proteins.[8] [9] [10]

**Other documented Anti-Alzheimer's mechanisms include:**

- **Anti-inflammatory:** Curcumin has been found to play a protective role against β-amyloid protein associated inflammation.[11]
- **Anti-oxidative:** Curcumin may reduce damage via antioxidant properties.[12]
- **Anti-cytotoxic:** Curcumin appears to protect against the cell-damaging effects of β-amyloid proteins.[13] [14]
- **Anti-amyloidogenic:** Turmeric contains a variety of compounds (curcumin, tetrahydrocurcumin, demethoxycurcumin and bisdemethoxycurcumin) which may strike to the root pathological cause of Alzheimer's disease by preventing β-amyloid protein formation.[15] [16] [17] [18]
- **Neurorestorative:** Curcuminoids appear to rescue long-term potentiation (an indication of functional memory) impaired by amyloid peptide, and may reverse physiological damage by restoring distorted neurites and disrupting existing plaques. [19] [20]
Metal-chelating properties: Curcumin has a higher binding affinity for iron and copper rather than zinc, which may contribute to its protective effect in Alzheimer's disease, as iron-mediated damage may play a pathological role.[21] [22]

Just The Tip of the Medicine Spice Cabinet

The modern kitchen pantry contains a broad range of anti-Alzheimer's disease items, which plenty of science now confirms. Our Alzheimer's research page contains research on 97 natural substances of interest. Top on the list, of course, is curcumin. Others include:

- **Coconut Oil**: This remarkable substance contains approximately 66% medium chain triglycerides by weight, and is capable of improving symptoms of cognitive decline in those suffering from dementia by increasing brain-boosing ketone bodies, and perhaps more remarkably, within only one dose, and within only two hours.[23]
- **Cocoa**: A 2009 study found that cocoa procyanidins may protect against lipid peroxidation associated with neuronal cell death in a manner relevant to Alzheimer's disease.[24]
- **Sage**: A 2003 study found that sage extract has therapeutic value in patients with mild to moderate Alzheimer's disease.[25]
- **Folic acid**: While most of the positive research on this B vitamin has been performed on the semi-synthetic version, which may have unintended, adverse health effects, the ideal source for this B vitamin is foliage, i.e. green leafy vegetables, as only foods provide folate. Also, the entire B group of vitamins, especially including the homocysteine-modulating B6 and B12,[26] may have the most value in Alzheimer's disease prevention and treatment.
- **Resveratrol**: this compound is mainly found in the Western diet in grapes, wine, peanuts and chocolate. There are 16 articles on our website indicating it has anti-Alzheimer's properties.[27]

Other potent natural therapies include:

- **Gingko biloba**: is one of the few herbs proven to be at least as effective as the pharmaceutical drug Aricept in treating and improving symptoms of Alzheimer's disease.[28] [29]
- **Melissa officinalis**: this herb, also known as Lemon Balm, has been found to have therapeutic effect in patients with mild to moderate Alzheimer's disease.[30]
- **Saffron**: this herb compares favorably to the drug donepezil in the treatment of mild-to-moderate Alzheimer's disease.[31]

As always, the important thing to remember is that it is our diet and environmental exposures that largely determine our risk of accelerated brain aging and associated dementia. Prevention is an infinitely better strategy, especially considering many of the therapeutic items mentioned above can be used in foods as spices. Try incorporating small, high-quality culinary doses of spices like turmeric into your dietary pattern, remembering that 'adding it to taste,' in a way that is truly enjoyable, may be the ultimate standard for determining what a 'healthy dose' is for you.

**Notes:**
*This statement is not meant to be used to prevent, diagnosis, treat, or cure a disease; rather, it is a statement of fact: the research indexed on our database indicates it

**Our professional database users are empowered to employ the 'Advanced Database Options' listed on the top of the
Turmeric research page and after clicking the function "Sort Quick Summaries by Title Alphabetically" under "Available Sorting Options" they can quickly retrieve an alphabetical list of all 613 diseases relevant to the Turmeric research, and then choosing the "Focus" articles selection to the right of the "Alzheimer's disease" heading to see only the 30 study abstracts relevant to the topic.

Resources
[8] Hongying Liu, Zhong Li, Donghai Qiu, Qiong Gu, Qingfeng Lei, Li Mao. The inhibitory effects of different curcuminoids on ß-amyloid protein, β-amyloid precursor protein and β-site amyloid precursor protein cleaving enzyme 1 in swAPP HEK293 cells. Int Dent J. 1996 Feb;46(1):22-34. PMID: 20727383
[18] Ranjit K Giri, Vikram Rajagopal, Vijay K Kalra. Curcumin, the active constituent of turmeric, inhibits amyloid peptide-induced cytochemokine gene expression and CCR5-mediated chemotaxis of THP-1 monocytes by
[27] GreenMedInfo.com, Resveratrol's Anti-Alzheimer's properties

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