

Turmeric and Curcumin

Patty McDonnell, RD, CSO, CD Seattle Cancer Care Alliance Medical Nutrition Therapy Services

What is the difference?

• What is turmeric? Plant with a rhizome, underground stem, usually sold ground, mostly grown in India. Common in India cuisine. One of the spices in curry. Flavor is like very mild pepper.

Price is very low.



Healing Spices: How to Use 50 Everyday and Exotic Spices to Boost Health and Beat Disease by <u>Bharat B. Aggarwal</u>, <u>Debora Yost</u>

What is the difference?



- What is curcumin?
- An active ingredient in turmeric, <u>only</u> found in turmeric.
- ½ tsp of turmeric contains about 100 mg of curcumin
- Pills much more expensive – some are just turmeric pills not pure curcumin

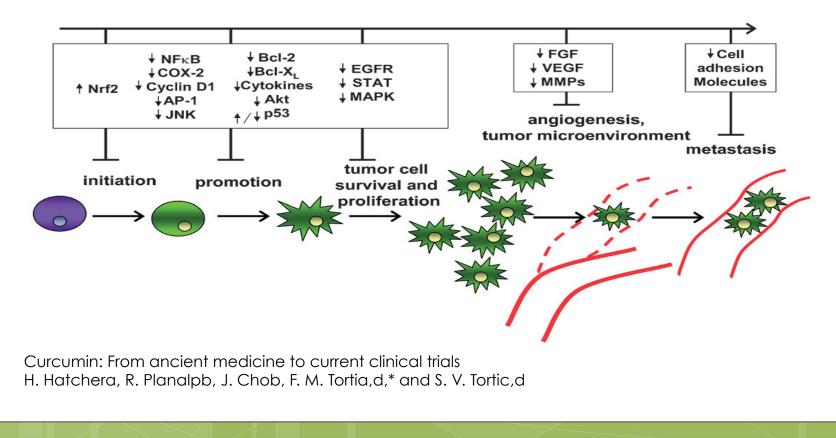
How much turmeric/curcumin is needed?

- Some studies used high amounts of 4g to 8 g of curcumin that would be over 6 Tbsp of turmeric or many pills.
- Even ½ tsp of turmeric has been studied to down regulate inflammatory factors
- No known toxicity and well tolerated

Monoclonal gammopathy of undetermined significance, smoldering multiple myeloma, and curcumin: A randomized, double-blind placebo controlled cross-over 4g study and an open-label 8g extension study Terry Golombick, 1* Terrence H. Diamond, 1 Arumugam Manoharan, 2 and Rajeev Ramakrishna2

The Science

Stages in tumor progression inhibited by curcumin



How might turmeric help?

General

- Anti-inflammatory effects
- Antioxidant effects

Specific to myeloma

- Decreasing urine protein and free light chains
- Down regulation of NF-kB and IL-6 (inflammatory factors)

Monoclonal gammopathy of undetermined significance, smoldering multiple myeloma, and curcumin: A randomized, double-blind placebo controlled cross-over 4g study and an open-label 8g extension study Terry Golombick,1* Terrence H. Diamond,1 Arumugam Manoharan,2 and Rajeev Ramakrishna2 Recommendation: Talk to your medical team about all supplements

Curcumin, as well as other supplements may interact with other medications.

They may also have synergistic effects.



Focus on whole foods

Remember turmeric is only one spice, lots of other spices have benefits

Lots of foods are anti-inflammatory as well





Anti-inflammatory diet

- 4 cups of a variety of fruits and mostly vegetables daily
- Sources of omega three fats, like wild salmon, grass fed beef, walnuts
- ¹/₂ cup or more of beans daily
- 1 handful of nuts daily
- Spices
- Plenty of water and herbal teas



Foods with turmeric

Mustard
Curry and Indian
cuisine
Used to color
many foods like
yellow cake, popcorn,
butter and chicken
broth



Breakfast ideas

- Mix ¹/₂ tsp of turmeric with eggs for veggie omelet
- 2. Add $\frac{1}{2}$ tsp turmeric to smoothie





Lunch ideas

- Mix turmeric in to mayo and make egg salad
- 2. Mix turmeric in mustard and spread on your sandwich
- 3. Mix with your salad dressing or salsa



Dinner ideas



Rice

Chili or pasta sauce

Vegetable stir fry



Beverages



- Add to juice
- Drink as a tea or golden milk



Recipe sources

- <u>http://canadianhealthbible.com/ginger-</u> <u>coconut-turmeric-juice</u>
- <u>http://monamifood.wordpress.com/</u> 2013/07/04/scrambled-eggs-withturmeric-and-black-pepper/
- <u>http://www.wisewomantradition.com/</u> <u>wisewomanweb/2011/04/golden-milk-an-</u> <u>ancient-healing-remedy.html</u>

More information

• BharatAggarwal – researcher at MD Anderson

https://www.youtube.com/watch? v=Zht2Q5D0RdY

https://www.youtube.com/watch? v=Bnnm15CHRi8

Questions?

