

Food and Fitness

West Virginia Bureau of Senior Services

Interaction of Warfarin with Vitamin K

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Monthly Health Motivator Tips Blood clotting is an important part of our bodies function. Blood clots are formed in order to stop bleeding when cut or injured. However, clots can form when they are not needed and can cause serious life-threating problems. Vitamin K plays as a major role in the importance



of forming a blood clot. When certain medications are introduced to help prevent the formation of clots (that are not needed), vitamin K is a topic that must be discussed.

When an issue is presented with blood clotting, medication is a common way to help prevent reoccurring blood clots. One medication that is used is called warfarin (Coumadin). Warfarin is a blood thinning medication that is often used to thin out the blood to help prevent future blood clots. When taking warfarin, the amount of vitamin K in one's diet has to be watched and monitored closely. When someone has a history of developing blood clots, action is taken to prevent the unwanted blood clots that are forming within the blood stream.

Vitamin K and medication have to be watched and monitored very closely to make sure the blood is at the right consistency. Foods highest in vitamin K are most often the dark green vegetables. Not only is vitamin K found in foods, it is also naturally produced by the bacteria in the intestines.

(Continues on Page 2)

Interaction of Warfarin with Vitamin K

(Continued from Page 1)

Vitamin K helps to make blood clotting factors that make blood thicker while warfarin is a blood thinning medication. Vitamin K has a crucial role to help with blood clotting. Vitamin K is used to bind calcium ions to activate the different blood clotting factors that are then used to help stop bleeding.

Two of the tests used that help determine an



Vitamin K benefits blood clotting



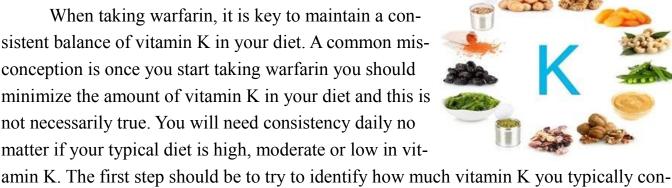
Adult RDA: 70 µg

Fat-soluble

*ADAM

appropriate balance of vitamin K and warfarin are prothrombin time and international normalization ratio (INR). Prothrombin and INR tests are used to measure how long it takes for blood to clot (coagulate). Prothrombin time checks five different blood clotting factors. The prothrombin time can be used regularly to measure the effect of warfarin and for dosing purposes. It can also be used to check for low levels of vitamin K used to make blood clotting factors. The test can be taken by a vein or even from the fingertip.

When taking warfarin, it is key to maintain a consistent balance of vitamin K in your diet. A common misconception is once you start taking warfarin you should minimize the amount of vitamin K in your diet and this is not necessarily true. You will need consistency daily no matter if your typical diet is high, moderate or low in vit-



sume. Researching and understanding what foods are high, moderate, or low in the amounts of vitamin K is a great place to start (refer to page 3). Then, finding ways to try to keep the amount of vitamin K consistent everyday is the next step. The good news is in the event you eat too much or too little of foods with vitamin K, and you are reporting your prothrombin time or INR, your medicine can be regulated to allow for such instances. Always consult your doctor before making decision related to medication and vitamin K intake.

8-19

I tbsp.

Salad dressings

Sauerkraut

Peas, green

 $\Sigma | \Sigma$

₹ cup

Seeds, pumpkin

9

% cup

spaghetti/marinara,

Sauce, pasta,

Soy milk Soybeans ready-to-serve

1 oz.

19

₹ cup

œ

medium

1 tbsp.

Parsley, dried

Pear

Vitamin K Content of Foods

*Eating more than the serving size for a moderate or low Vitamin K food can make it a high Vitamin K food.

*Unless otherwise noted, all foods are cooked, meat is roasted, fish is cooked with dry heat, vegetables are cooked from fresh, and fruit is raw.

*This is a guide. Actual values may vary depending on product processing. Vegetables that are frozen then cooked may have higher Vitamin K values.

* Values are rounded to the nearest whole number and may be averaged with similar foods in group.

High Vitamin K (more than 100 mcg)	than 100 meg)	- Curroci
Food	Serving	meg	
Broccoli	dno 1/4	110	
Brussels sprouts	% cup	109	
Endive, raw	1 cup	116	
Greens, beet	dno ½	349	
Greens, collard	dno ½	418	
Greens, collard, frozen	dno ₹	530	
Greens, dandelion	dno ½	290	
Greens, mustard	dno ¾	210	
Greens, turnip	dno ¾	265	
Greens, turnip, frozen	dno 7/1	425	
Kale	dno ½	531	
Kale, frozen	75 cup	573	
Onions, spring or	dno ¾	104	
scallion, raw			
Parsley, raw	10 sprigs	164	
Spinach	/2 cup	444	
Spinach, raw	1 cup	145	

Food	Serving	5744
Acresses	d chear	300
Asparagus	+ Spears	200
Asparagus, frozen	½ cup	72
Blackeye peas, frozen	√2 cup	31
Broccoli, raw	cup	45
Cabbage, chinese	½ cnb	56
Cabbage, green	7, cup	82
Cabbage, raw	dno 1/4	27
Kiwi fruit	1 medium	31
Lettuce, green leaf	I cup	97

Lettuce, romaine1 cup57Noodles, spinach½ cup81Okra, frozen½ cup44Prunes, dried5 each25Pickles, cucumber, dill1 pickle25or kosher dill	in they are area about them almost from its Straight	The same of the same of the same of	
ach ½ cup ½ cup 5 each mbcr, dill 1 pickle	Lettuce, romaine	1 cup	57
% cup 5 each mbcr, dill 1 pickle	Noodles, spinach	dno ½	81
5 each mber, dill 1 pickle	Okra, frozen	dno ½	4
mber, dill 1 pickle	Prunes, dried	5 each	25
	Pickles, cucumber, dill or kosher dill	1 pickle	25

Low Vitamin K (less than 25 mcg)	an 25 meg)	
Food	Serving	mcg
Artichoke	I medium	18
Avocado, raw	1 oz.	9
Beans, green or yellow	45 cup	01
Blackberries or	dno ⅓	14
blueberries	•	
Carrots	½ cup	11
Cauliflower, raw	dno %	«
Celery, raw	dno ½	18
Cucumber, with peel	dno 1/4	6
Dried beans and peas,	dno 5/4	6-5
most types	ı	
Grapes	dno ½	12
Lettuce, iceberg	1 cup	13
Mango	1 medium	6
Margarine-blend, tub,	1 tbsp.	13-15
or stick		
Mayonnaise	1 tbsp.	9
Nuts, cashews	1 oz.	10
Nuts, pine	1 oz.	15
Oil, olive	l tbsp.	8
Oil, canola	1 tbsp.	10
Papaya	l medium	8

Tomato, raw	1 medium	10
Vitamin K Free (less than 5 mcg)	in 5 meg)	
Food	Serving	
Bread and cereal products	l oz. or	
	½ cup	

Bread and cereal products	l oz. or
	₹ cup
Cheese, all types	1 oz.
Eggs	1 large
Fish and shellfish	3 oz.
Fruit: whole, canned, or	1 each or ½ cup
juice, not previously listed	•
Meat and poultry, all types	1 oz.
Milk and dairy products, all	I cup
types	
Nuts, not previously listed	l oz.
Seeds, sunflower	2 tbsp.
Vegetables and vegetable	√2 cup
juice not previously listed	

Source: U.S. Department of Agriculture, Agricultural Research Service, 2008. USDA National Nutrient Database for Standard Reference, Release 21. Nutrient Data Laboratory Home Page, http://www.ars.usda.gov/ba/bhmc/ndl; accessed September 2, 2009.

Source: Nutrition Data.com: Nutrition Facts and Information, http://www.nutritiondata.com; accessed September 2, 2009.

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Vitamin K Content—Page 1

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FOOD AND FITNESS



Mineral—Fluoride

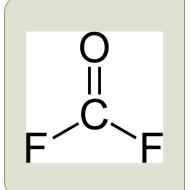
Functions

Fluoride is created from the element fluorine. Fluoride is used for both bone and tooth formation. It is also important for helping to prevent dental carries (cavities) and tooth decay. Fluoride works by increasing the tooth's resistance to acid and inhibits the process where bacteria promotes cavities.

Recommendations

Dietary References Intakes for 50 years and older are not determined.

Adequate intake (AI) for 50 and older is: 3 mg/d



Food Sources

Teas

Seafood

Fluoridated Water

*Some non food source for fluoride are fluoride gel, toothpaste, and certain mouthwashes.





Deficiency

Dental carries (cavities) and tooth decay

Toxicity

Toxicity to fluoride can cause fluorosis, vomiting, diarrhea, nausea, chest pain, itching, and pineal gland calcification.

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Green Bean Casserole

Ingredients

- 3 tablespoons canola oil, divided
- 1 medium sweet onion, (half diced, half thinly sliced), divided
- 8 ounces mushrooms, chopped
- 1 tablespoon onion powder
- 1 1/4 teaspoons salt, divided
- 1/2 teaspoon dried thyme
- 1/2 teaspoon freshly ground pepper
- 2/3 cup all-purpose flour, divided
- 1 cup low-fat milk
- 3 tablespoons dry sherry, (see Ingredient Note)
- 1 pound frozen French-cut green beans, (about 4 cups)
- 1/3 cup reduced-fat sour cream
- 3 tablespoons buttermilk powder, (see Ingredient Note)
- 1 teaspoon paprika
- 1/2 teaspoon garlic powder

Directions

- 1 Preheat oven to 400° F. Coat a 2 1/2-quart baking dish with cooking spray.
- 2 Heat 1 tablespoon oil in a large saucepan over medium heat. Add diced onion and cook, stirring often, until softened and slightly translucent, about 4 minutes. Stir in mushrooms, onion powder, 1 teaspoon salt, thyme and pepper. Cook, stirring often, until the mushroom juices are almost evaporated, 3 to 5 minutes. Sprinkle 1/3 cup flour over the vegetables; stir to coat. Add milk and sherry and bring to a simmer, stirring often. Stir in green beans and return to a simmer. Cook, stirring, until heated through, about 1 minute. Stir in sour cream and buttermilk powder. Transfer to the prepared baking dish.
- 3 Whisk the remaining 1/3 cup flour, paprika, garlic powder and the remaining 1/4 teaspoon salt in a shallow dish. Add sliced onion; toss to coat. Heat the remaining 2 tablespoons oil in a large nonstick skillet over medium-high heat. Add the onion along with any remaining flour mixture and cook, turning once or twice, until golden and crispy, 4 to 5 minutes. Spread the onion topping over the casserole.
- 4 Bake the casserole until bubbling, about 15 minutes. Let cool for 5 minutes before serving.



Brain Exercise

Don't Just Exercise Your Body, Workout Your

Thanksgiving Guest Crossword

Across

- 1. Wharton grad
- 4. Amount of hair
- 9. "Dig in!"
- 10. Devastation
- 11. " Doubtfire"
- 12. Swelling
- 13. Texas oil city
- 15. Indefinite article
- 16. Not together
- 18. "__ You Like It"
- 20. Boozers
- 23. Type of scallop
- 25. Neighbor of

Wash.

- 26. "Farewell, mon ami"
- 27. Chill
- 28. Stands for
- 29. Acquire

Down

- 1. Exec's note
- Poet
- 3. Bewildered
- 4. Synonym finder
- 5. Navigation aids
- 6. "The Three Faces of "
- 7. Body

1	2	3		4	5	6	7	8
9				10				
11				12				
13			14				15	
		16				17		
18	19		20				21	22
23		24				25		
26						27		
28						29		

- 8. Diagnostic test
- 14. Ire
- 17. Flip-flop
- 18. Sandler of "Big Daddy"
- 19. Pro or con
- 21. Cleveland's lake
- 22. Aug. follower
- 24. By way of

The title is a clue to the word in the shaded diagonal.

November 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 All Saint's Day	2 Deviled Egg Day	3 Men Make Dinner Day	4 King Tut Day	5 Guy Fawkes Day
6 Saxophone Day	7 Bittersweet Chocolate with Al-	8 Cook Something Bold Day	9 Chaos Never Dies Day	10 Forget-Me- Not Day	11 Veteran's Day	12 Chicken Soup for the Soul
13 Caregiver Apprecia- tion Day	14 World Kindness Day	15 Clean Your Refrigera- tor Day	16 Button Day	17 Homemade Bread Day	18 Occult Day	19 National Adoption Day
20 Universal Children's Day	21 World Hello Day	22 Go For a Ride Day	23 Eat a Cranberry Day	24 Thanksgiv- ing Day	25 National Parfait Day	26 Shopping Reminder Day
27 Pins and Needles Day	28 French Toast Day	29 Square Dance Day	30 Stay At Home Because You Are			

NOVEMBER MONTHLY OBSERVATIONS

- Aviation History Month
- Child Safety Protection Month
- International Drum Month
- National Adoption Awareness Month
- National Caregivers Appreciation Month
- National Diabetes Awareness Month

- National Epilepsy Month
- National Model Railroad Month
- National Novel Writing Month
- Native American Heritage Month
- Peanut Butter Lovers Month
- Real Jewelry Month

Health Motivator Tips

November 2016 Talking Turkey



By Loren Wells, WVU Extension Agent, Wyoming and McDowell Counties; Dana Wright, WVU Extension Agent, Logan and Mingo Counties

Health Motivator Talking Points

Did you know . . . ?

- Many traditional Thanksgiving foods are high in carbs. Have a small portion of your favorites and pass on the rest.
- · Avoid sugary drinks. Don't drink your carbs and calories!
- Non-starchy vegetables (green beans or carrots) will fill you up and keep you from eating other foods high in calories and fat.
- Conversation is calorie-free. Spend time with relatives, reminisce with old friends and enjoy the company of others.
- · Don't overeat. Eat slowly, mindfully and savor the flavors.
- Look for ways to cut down on fat and calories without sacrificing taste.
 Try swapping out ingredients in your recipes:
 - Use low-sodium, fat-free chicken broth in your mashed potatoes to add flavor and cut back on added butter or margarine.
 - Substitute applesauce for oil, margarine or butter in muffins and breads.

Quick Club Activity

In honor of the holidays, let's dance the Mashed Potato and the Turkey Trot:

The Mashed Potato: Begin with feet slightly apart and turned inward. Turn feet outward as if mashing a potato with your feet. Repeat steps rapidly for 15 to 20 seconds.

The Turkey Trot: Take eight steps forward. Then, take one step forward, one step backwards. Repeat two times. Hop, kick, hop, kick. Stick your bottom out like a turkey with your wings flapping and close. Repeat these steps for 15 to 20 seconds.

Sources

Academy of Nutrition and Dietetics. www.eatright.org

Turkey Trot. (2014, November 26). Retrieved June 5, 2015, from http://www.adventuresindance.com/blog/tag/turkey-trot

Instructional Video: How to do the Mashed Potato. (September, 2007). Retrieved June 5, 2015 from YouTube http://www.youtube.com/watch?v=nzGPpPUML94. Kathrine J. Clark, MS, RD, LD

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Brain Exercise Answers

