

## Lifestyle to Treat Prostate Cancer **Gabe Mirkin, M.D.**

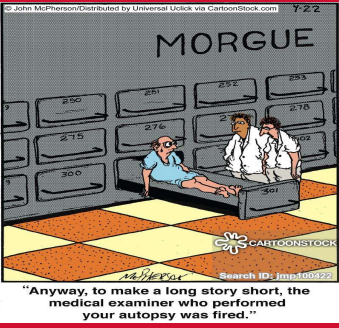


**Wednesday, October 5, 2019  
Laurel Manor Recreation Center**

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## All Men Will Develop Prostate Cancer If They Live Long Enough

**Autopsy results of men who died from other causes show that 30 percent over age 50 have had prostate cancer and 50% in their 70s already have the disease**




**Urol Clin North Am, 1989;16:635-655.**

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## Evidence that North American men develop prostate cancer

- \* Autopsies prostate cancer 80% of men in 70s  
*Int J Cancer, November 15, 1977;20(5):680-8.*
- \* 50% of American men will develop prostate cancer by age 60  
*J Natl Cancer Inst (2013) 105 (14):1050-1058)*
- \* 5% of men have it by age 30  
*Int J Cancer, 2015 Oct 1; 137(7): 1749-1757*




Unlike many other cancers, prostate cancer usually grows very slowly and does not kill the vast majority of men who have it.

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## Cause of Death, not Prostate

- The 15-year survival rate is 96%
- Average age at diagnosis is 66, and
- Most patients will die from unrelated causes such as a heart attacks or diabetes



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## Heart Attack Risk Factors

- \*78% have high cholesterol
- \*91% have high blood pressure
- \*35% become diabetic
- \*40% die of heart attacks



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## Prostate Cancer: Same risk Factors as Diabetes


- \*high blood sugar, high insulin levels, high cholesterol, (Horm Cancer, April 2016;7(2):75-83).
- \*Obesity increases risk for dying of prostate cancer Int J Oncol, Mar 2006;28(3):737-45 by raising leptin, interleukin-6 (IL-6), heparin-binding epidermal growth factor-like growth factor (HB-EGF), vascular endothelial growth factor (VEGF) and adiponectin (Int J Oncol, Mar 2006;28(3):737-45
- \*Fasting sugar over 100 increases risk of death (Prostate Cancer Prostatic Dis, June 2013;16(2):204-8) as does eating sugar and refined carbs Ann Oncol, Jan 2013;24(1):245-51
- \*Exercise reduces risk for prostate cancer Journal of Urology, November 2009;182(5):2226-2231

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## Why American Prostate Cancer Patients Die From Heart Attacks

Circulation, Feb 4, 2016

- 1) **Radiation** increases risk heart failure, irregular heartbeats & heart attack The Lancet, Nov 12, 2011;378(9804):1707-1716
- 2) **Chemotherapy** drugs damage heart
- 3) Drugs **blocking male hormones**, increase risk for heart attacks JAMA, Sept 22, 2015;314(12):1291
- 4) **Prostate cancer patients who use heart-attack-preventing program are far less likely to suffer recurrences** Journal of Clinical Oncology, Oct 20, 2012;30:3697-3704



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## ABCDEF to prevent prostate cancer recurrence


- A**spirin if indicated major heart attack risk
- B**lood pressure monitoring
- C**holesterol management & no **C**igarettes
- D**iet & **D**iabetes Prevention: eat fruits & vegetables; restrict sugar-added foods & drinks, meat & fried foods
- E**xercise
- F**at loss



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### Foods Assoc. with Reduced Risk


- \*Fruits, vegetables & nuts
- \*soluble fiber
- \*Beans, mushrooms and seeds
- \*The onion family
- \*Berries
- \*Tomatoes
- \*Tea
- \*Coffee
- \*Fish



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### Foods: Increased Risk for Prostate Cancer


- Processed meats (salami, bologna, sausage, bacon and hot dogs)
- All meats from mammals
- Deep fried foods. Without water, sugar binds to the protein in meat to form AGEs (advanced glycation endproducts)
- Controversial: eggs and milk



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### Non-Food Risk Factors for Prostate Cancer

- Being overweight
- Lack of exercise:
- Smoking
- Alcohol
- Low vitamin D



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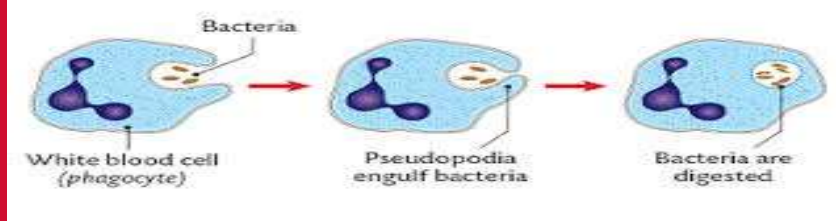
### 100 Trillion Colon Bacteria

• Saliva	100,000,000,000	(11)
• Stomach	10,000,000	(07)
• Duodenum & Jejunum	10,000,000	(07)
• Ileum	100,000,000,000	(11)
• Colon	100,000,000,000,000	(14)

**PLoS Biol. Aug, 2016;14(8):e1002533**

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### Harmful Colon Bacteria: Inflammation

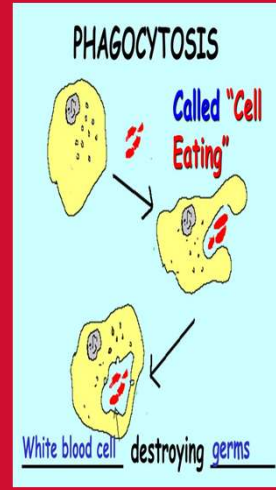


- Colon bacteria eat what you eat.
- HEALTHFUL BACTERIA do not try to enter your colon cells
- HARMFUL BACTERIA enter colon cells to turn on your immunity to cause inflammation

Int J Mol Sci. Apr, 2015;16(4):7493-7519

### INFLAMMATION

Your immunity is good because it kills germs, but if it stays on all the time, it uses the same cells & chemicals to attack your genetic DNA to cause cancer



### INFLAMMATION CAUSES HEART ATTACKS



### Healthful Colon Bacteria

convert soluble fiber in plants to \*Short Chain Fatty Acids (Front Cell Infect Microbiol., January 21, 2019) \*that increase colon mucous that \*prevents harmful bacteria from penetrating colon cells \*to turn on your immunity \*to cause Inflammation \*that increases risk for heart attacks and cancers.

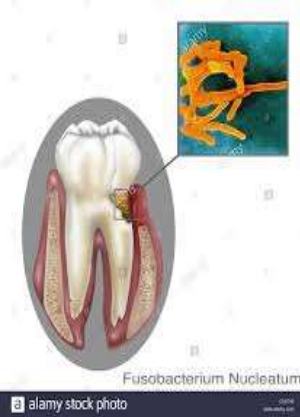
Nature Microbiology. Nov 5, 2018;3:1461-1471  
Applied & environmental microbiology 2004;70(10):5810-7





## **Fusobacterium nucleatum**

- \*pro-inflammatory anaerobe**
- \*common dental pathogen**
- \*invades teeth and cells**
- \*associated with colorectal  
And other cancers, heart  
attacks, dementia, and more**



**Current Opinion in Microbiology. Feb, 2015;23:141-147**

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## **Feces from Fat & Normal Monozygotic Human Twins**

- Feeding feces from fat twin made germ-free mice FAT.**
- Feeding feces from normal-weight twin did NOT CAUSE WEIGHT GAIN**



**Science. 2013;341(6150):1204-1214**

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## **Anti-inflammatory Diet**

- 1. Unlimited vegetables, fruits, whole grains, beans, nuts & other seeds**
- 2. Some deep water fish**
- 3. Poultry not assoc'd with disease (unless skin or fried)**
- 4. Limit refined carbohydrates (bakery products & pasta particularly if overweight or diabetic).**
- 5. Limit sugared water, sugar-added foods.**
- 6. Limit red meat**
- 7. Avoid partially-hydrogenated fats**
- 8. Avoid burnt fats: Polycyclic Aromatic Hydrocarbons (PAH) and Advanced Glycation End Products (AGE)**

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## **Red Meat Increases Risk:Diabetes & MIs**

- \*DECREASES INSULIN SENSITIVITY**
- \*SUPPLIES CHOLINE AND LECITHIN THAT ARE CONVERTED TO TMAO THAT PUNCHES HOLES IN ARTERIES TO START PLAQUE FORMATION.**

**38,094 Dutch Followed 10 years**

**Diabetes Care, January 2010**



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**People who eat fish twice a week suffer fewer heart attacks than those who eat less. However, no additional benefit has been shown for eating fish more than twice a week.**

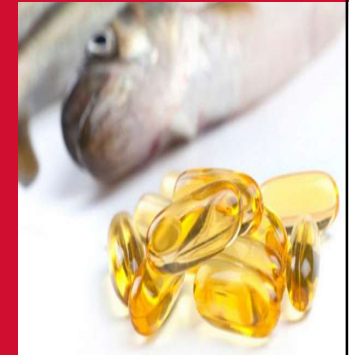


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## **Men with the highest blood levels of omega-3 fatty acids**

**71% increased risk for high-grade prostate cancer**

**43% increased risk for all prostate cancers**



**Journal of the National Cancer Institute. July 11, 2013<sup>2</sup>**

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## **A High Rise In Blood Sugar Damages Every Cell In Your Body**



**Blood sugar >140 after meals damages cells**  
*Diabetes Care. 2001;24 (8):1448-1453*

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## **Refined carbohydrates**

- \*Blood sugar rises too high →
- \*Sugar sticks to cell membranes →
- \*Once attached, never detached →
- \*on cell, glucose converted to sorbitol →
- \*Blindness, deafness, MI, stroke, dementia kidney failure, etc.

**J Biol Chem. Sep 10, 1978;253(17):5985-9**

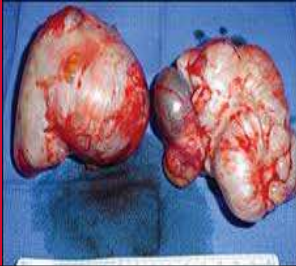


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**Public Library of Science Medicine, January 2010**


**PEOPLE WITH HIGH BLOOD SUGAR LEVELS ARE AT INCREASED RISK FOR CANCERS:** prostate, liver, gallbladder, resp. tract, thyroid, rectum, pancreas, bladder, uterus, cervix, stomach; and multiple myeloma.



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**American Journal of Clinical Nutrition, April 7, 2010; Archives of Internal Medicine, May 2010**

**Studies from Denmark & Italy show those who ate the most FOODS THAT CAUSE HIGH RISES IN BLOOD SUGAR had more than twice the risk of heart disease than those who ate the least.**



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**Health Professionals Study:**  
All sugar-sweetened beverages are associated with a significantly elevated risk of type 2 Diabetes

**American Journal of Clinical Nutrition, March 23, 2011**



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**High Glycemic Load Diet**  
increased death rate by 80% in 7 years, in 1000 men and women with metastatic colon cancer, stage III. Expected 5-year survival less than 50%

**J Natl Cancer Inst., November 7, 2012**




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**Fruit juice and soft drinks increase diabetes risk by 130%**  
Arch Intern Med. 2008;168(14):1487-1492.

**Fruit: decrease diabetes risk by 80%**  
Diabetes Care, July 2008




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**Sugared Drinks Cause Highest Rise in Blood Sugar**  
Fruit juices and sugared soft drinks are not stopped by the pyloric sphincter. They enter the intestines immediately to cause a rapid rise in blood sugar.

**Quart. J. Med. Sept 18, 2015**

**An orange can stay in your stomach for 5 hours**

**JAMA. August 25, 2004**

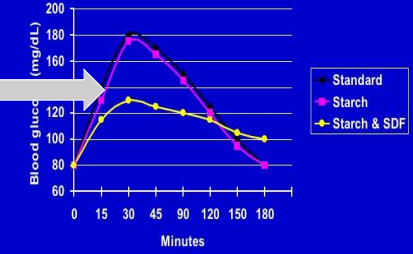


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**Sugar in Fruits Safe**

- Intestines: Fruits have soluble fiber, a gel that binds to sugar.
- Colon, bacteria ferment soluble fiber to release sugar.

Blood Glucose Response: Starch+ or - Soluble Dietary Fiber (SDF)



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**Sugared Drinks Cause \*Inflammation, \*Abdominal Obesity, \*Metabolic Syndrome, \*High Triglycerides & \*Lowered HDL**

**\*increased C-reactive protein**  
**\*increased waist circumference**  
**\*decreased HDL cholesterol**

**ONE DAY TOTAL 93 PACKETS OF SUGAR**



**Journal of the Academy of Nutrition and Dietetics. Feb 2013;113(2):219-227**


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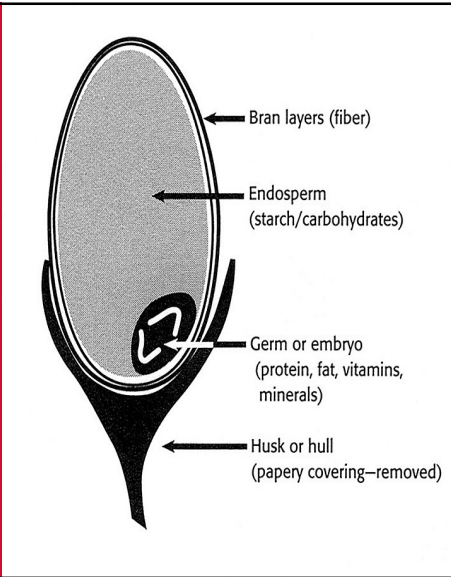
**Whole Grains**  
prevent diabetes, do not cause a high rise In blood sugar.

*Am J of Epidem.* 2003;58(3):243-250  
*Am J of Clin Nutrition* 12/12, 2012  
*Am Soc for Nutr July, 2013:*



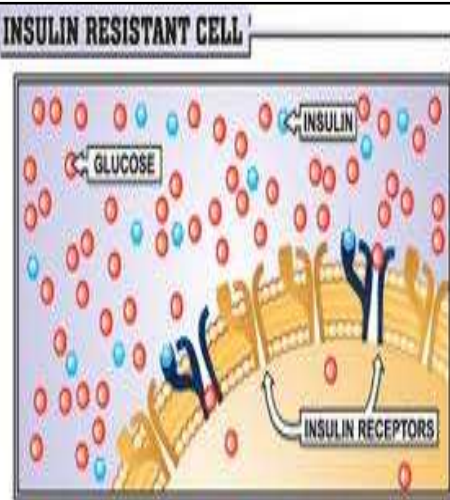
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**Grinding & Cooking raise Glycemic Load**



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**Whole grains increase insulin sensitivity, help prevent diabetes & myocardial infarctions & lower cholesterol.**




*American Journal of Clinical Nutrition*, 2003;78(5):965-971  
*Current Opinion in Cardiology*, 08/13/2015

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**Wheat Belly, Grain Brain & Paleo Diet recommend that you avoid whole grains**

**NONSENSE:** No epidemiological data to show that *unrefined* wheat causes obesity, diabetes or MI's.



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## NUTS Full Of Fat, But Not Fattening


Fat in almonds **inside** cells.

- \***In mouth:** Most almond cells remain intact after being chewed.
- \***In upper GI tract:** fat is not absorbed.

*Am J. Clinical Nutrition. 2015, Jan;101(1):25-33*

- \***In colon:** fat is released from cells by Bacterial fermentation and then absorbed.

*Am J Clin Nutr. 2004 Sep;80(3):604-13*  
(Roasting almonds not increase fat absorption)  
*Br J Nutr. 2014 Nov 14;112(9):1521-9*


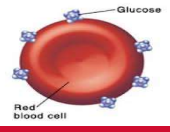


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## Advanced Glycation End Products

Cooking without water causes sugar to attach to fat, protein, and nucleic acids to form AGEs that can damage every cell in your body. You eat them in food or form them in your body.

**For complete review:**  
[http://www.mysticmedicine.com/wp-content/uploads/2012/09/ada\\_ages\\_in\\_food\\_reduction11.pdf](http://www.mysticmedicine.com/wp-content/uploads/2012/09/ada_ages_in_food_reduction11.pdf)

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## AGEs

- **INCREASE** :Frying, broiling, grilling, and roasting
- **REDUCE:** boiling, poaching, stewing, steaming and microwaving



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## Weight Control

**Eat:**

- \*lots of raw fruits and vegetables.
- \*foods not cooked, chopped, ground or puffed with air.
- \*cooked fruits and non-starchy vegetables. They are usually low in calories even when cooked.
- \***WHOLE** grains, beans, seeds and nuts not ground into flour.

**Restrict:**

- \*sugared drinks because virtually 100% of calories rapidly absorbed.
- \*all sugar-added foods.
- \*foods made from flour such as bakery products and pastas.
- \*soft or puffed cereals - including popcorn.

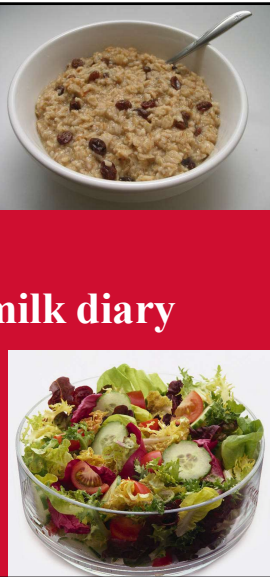



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## Rx DIABETES


- **BREAKFAST:** Steel-ground oatmeal
- **LUNCH & SUPPER:** Salads
- **No meat, chicken (?), whole-milk dairy products, pastas or bakery products, sugar-added foods and drinks & prepared foods with partially hydrogenated fats**



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## HEART ATTACK WARNING SIGNS

- **BP>120/80**
- **LDL> 100**
- **HBA1C>6**
- **CRP>1**
- **ABD. OBESITY**
- **Lp(a)> 125**
- **Triglyc >150**
- **HDL<40**
- **Homocys>10**
- **Small Particle size**



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"I'm taking better care of my heart. I've started using aspirin as one of my pizza toppings."


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\*Almost all people with small hips and big bellies have high blood sugar levels. A fatty liver prevents liver from accepting sugar from blood.

\*Mediterranean Diet cures fatty liver.

Review article: **Current Opinion in Lipidology**, 01/06/2015



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## High Glycemic Foods Cause Heart Attacks

Studies from Denmark & Italy:

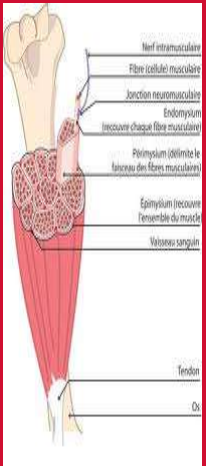
Those who ate the most **FOODS THAT CAUSE HIGH RISES IN BLOOD SUGAR** had more than twice the risk of heart disease than those who ate the least.

American J. of Clinical Nutrition, April, 2010  
Archives of Internal Medicine, May 2010



www.drthegoodlife.com

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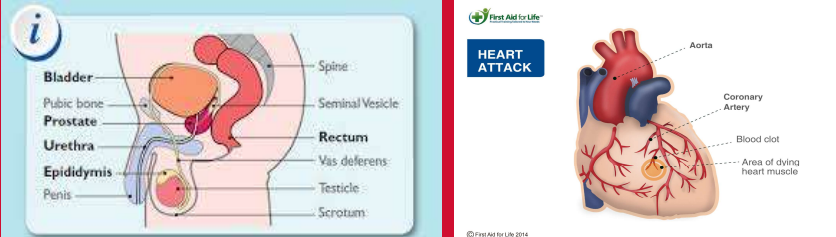
**Exercise sensitizes muscle cells to insulin to help prevent high rise in blood sugar that follows eating refined carbohydrates up to 17 hours after you finish a workout. (athletes' recovery: maximum effect for ½ hr)**

**Am J Clin Nutr. 2008(July);88(1):51-57**

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**Thanks for Listening**

**Prostate Cancer & Heart Attacks should be treated also with the same lifestyle changes**



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**For an extensive list of articles and medical journal articles on the likely causes of prostate cancer, go to [WWW.drmirkin.com](http://WWW.drmirkin.com) search "prostate"**

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