



# PROSTATE CANCER SURVIVOR STUDY WITH WIDESPRAD USE OF PSA SCREENING, many men are living with the diagnosis

of prostate cancer. You may be aware of our studies looking at dies and the sisk of developing prostate cancer, but it is also critical to identify dietary factors that promote or inhibit the cancer's growth after diagnosis. Despite its relevance to many men, this topic has received surprisingly little study.

The Health Professionals Follow-Up Study has started to look into this issue. To date, we have observed 92 progression outcomes among 1,202 men diagnosed with incodent localizedrogical postate cancer between 1986 and 1989. Most of these outcomes were based on a rise in PSA after initial surgery or radiation treatment. At this point, our attition have down an association between greater formous association of the proported rooms associated and the proportion of the proport



higher milk intake veas associated with a moderate increase in risk Khan et al. Conce Cusso Corrol 2800.17.159-288. While our preliminary findings need to be confirmed with additional follow-up, they are promising and support our continued efforts in this.

#### in this issue

 VITAMIN D HAS RECEIVED CONSIDERABLE ATTENTION recently for its potential role in preventing some cancers and a number of other health conditions. There is a strong biologic basis for the association between vitamin D and cancer risk, which the Health Professionals Follow-Up Study has recently examined.

research updates Based on your information, we considered multiple determinants of vitamin D copentum. These determinants include disease, and supplementary instainin D, kin prigmentation (estimated by race, Aligonity, geographic redishout, and Isiane-time physical activity for estimate smallight exposure) or relative to concer fine Me found that non-likely to have low-level of vitamin D had in higher risk of cancer incidence, and interested canter metality inconvenient and tracer our attention to. These men had many from the risk of servicing suscess of the dispative system—the cancer means the service of the dispative system of the disp

IU/day for those under 50 years of age, 400 IU/day for those 50 to 70, and 600 IU/day for those older than 60 years) might be inadequate to achieve optimal benefits, particularly for those with low sun exposure. Although the optimal dose still needs

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Human Services, which means that under current laws v cannot be forced to disclose information that may ident you in any legal proceedings.

Your trust is essential to the success of the study, and it would never do anything to risk losing that trust. That would never continued commitment

to be worked out, it appears that 1,000 IU/day might be a minimum, especially

for individuals in northern regions during the winter months. Current recommendations are not to exceed 2,000 U/day, but now veidence suggests that this limit should be higher. In our continued follow-up of the study, we are working extensively to establish optimal vitamin D levels for cancers and other conditions, including diabetes, high blood persure, outcoperosis and

GALLBLADDER DISEASE INCLUDING GALLSTONES, is prevalent in the United States, affecting 10 to 25 percent of adults. And although gallstone disease is more Professionals Follow-Un Study in 1986, nearly 3,000 men have reported suffering from gallstone disease symptomatic enough to warrant gallbladder removal. While the actual prevalence of all gallstones is much higher, we have focused our studies for symptomatic gallstone disease.

Obesity was the only previously accepted modifiable risk factor for gallstone disease. and we have further shown that the key is abdominal obesity, as measured by waist inches or more had 2.3 times the risk of gallstone disease compared with those whose waists measured approximately 34 inches or less. Not surprisingly, exercise was also

In addition to obesity, we have shown that diet is a risk factor for gallstone disease, and our findings largely parallel what we observe for heart disease-that types of fats and carbohydrates are important. Specifically, high intake of polyunsaturated and monounsaturated fats in the context of an energy-balanced diet was associated with a reduced risk for gallstone disease in men (fail et al. few from Ned 2004) 41:514-525. Nuts are a particularly good source of these fats; men who consumed five one-ounce servings

to be harmful (Tail et al. Architeset Med 2005: 165: 1011-1015). Highly refined carbohydrates with a high glycemic index increased risk relative to less processed, high-fiber carbohydrate sources.

The strong similarities between risk factors for gallbladder and cardiovascular diseases should not be surprising, as high insulin and cholesterol production are strong risk factors for both, and are associated with diet, exercise, and obesity. This once again reinforces the idea that following a heart-healthy diet has many additional benefits



updates



#### DIABETES

A RESARCH GOOP IN CLAND SECENTLY OSCIONATED and subdiving pure (transcription factors, 1462 et 2017/21); This followers prompted to texturing whether this gene is societied with diabetes in a U.S. population. We evaluated a common variant on the gene in more from the Hairb Professionals pillows. Up to subwith the factorial sensity we found that it plots down people who care from the Nursel Heighl Study-low-yet (a Genes 100, 550-60). Consistent with the factorial sensity we found that it plots down people who care from the succinction has been replicated in other populations, our study represents the succinction has also been replicated in other populations, our study represent the supering prospective down reporting on this gave and disheres. But clearing are celllated to reduce down the supering control of the supering of the supering of the supering the supering of the supering the supering of the su

We also conducted a comprehensive study on another diabetes gene confident Unterledsin or He. (5) care is new sides on 200 x 100 x 100 x 100 x 100 x 100 x 100 x on II. by gene do not appear to have an appreciable association with diabetes in either men or women. Sundlied like hiar are untell in valing out gross that are not released to diabetes. Because of the considerable number of gene in the human genome, we plan to crowle for MI finals to imultaneously strens many thousands of genes.



We are also examining the interactions between goess and environmental (Garcian Cust statish here also much that dietary factors such as statement fat and alcohol that dietary factors such as statement fat and alcohol to the period plane goes to affect DELF, and the period plane goes to affect DELF, and the period plane goes to affect DELF, and the period plane goes to affect the period plane goes to a state of the period plane goes to a state of conceasy short disease among diabetic men in the Health plane goes to a state of the period plane goes to a state of the period goes the period goes to a state of the period goes to a s

men who did not carry the variant. This variant was not associated with brare disease in lean men. These analyses suggest that both genetic and environmental factors are important for disubtees and heart videases. In other words, these diseases are not simply caused by "nature" or by "nature," but by complex interactions between our inhetited genes and environment, including diet and diffestive,

FEETLE DYSFINCTION S.A COMMON CONCIDION NO LOUBS MEN, with prevailors in braviage of manifold with region and the brails Productional to Block '15 p. South, 3.7 percent of men age, \$10 m/s prepared recent problems with excell featuration. Block '15 p. South, 3.7 percent of men age, \$10 m/s prepared recent problems with excell featuration and causing men with important cancer. In our latest study, we found that fever than two present of men who reproduct cancerns receil the dysfunction had symptoms before age, to the contract of the co

While this on he is a fusianting condition, the good new is that several modifiable intents between we assumed with manisming good reveals for intents the fundamental manisming and reveals for intents the fundamental manisming and the second of the secon

It is well known that physical activity, maintaining a boalthy weight and avoiding smaking are all linked to a reduced risk of diabetes, cardiovascular disease, cancer, and other chronic diseases, Auding earlied sysfunction to this list may be a new source of motivation for men to engage in health promoting behaviors. While nobody on stop the inevitable impact of age, our research suggests that there are many behavioral changes that men can





## FOCUS ON OUR RESEARCH TEAM



MORE THAN 10 YEARS, ACO, DR. WALTER WILLETT and the colleagues stands the Metalth Productionals of Indows by Study in Interestipate here det and literaty factors defined metalth. Dr. Willest focused must of this work developing methods, using both questionnaire and bild-himmical papersolates to trusty the effects or deter compared occurrence. He has applied these methods since 1909 with the Youner Feedsh Studies and till and fast in the Residth Productionals (Tablew Up Study). Experient these cohors comprise metalty 300,000 men and woman submitting repeated dietery assessments and providing the most detailed information on the long-term health conceptures of food.

As the principal investigator of the Marce! Health Study. If and Health Professionals Follows. Lip Study, Dr., Willett overseas all of the memore charactery device thin these studies. He is to Professor of Epidemiology and Manistria the Harract School of Public Health and Professor of Medicine at Harvard Medical School. He is a member of the institute of Medical or of the National Anadomy of Sciences and the receiption eliminary studies and extremely and awards for his research. Among them, Dr. Willest resolved the 2001 Charles S. Mart Prine for most coststands event contribution or tested to the cause or pervention of Cascine. And 2003 Insury Pushing position, Principal Conference on Conferen

Though it is hard to imagine that Dr. Willett has spare time, he enjoys spending it on his bicycle, in his keyek or garden, or with his family.



VEX.WOLD.A.S.O.LECTO.INTROLOCET.VOLTO. JUL. ANAMOLD., South Assistant for the Health Professionals of Bosel up Sauly. Mrs. Annel has been with the Farmed School of Public Health since 1975. She joined the Health Professionals Follow-Up Study team in 1984 and wands calcular youth lay raculy investigations. Mrs. Annel Jesup a rectal role in the preparation, coordination, and submission of genat applications, and manuscripts. She also helps with the management of the human sugless applications. Mrs. Arnold is also while you will fall management of the human sugless applications. Mrs. Arnold is also while you will often reach where you call our office. She enjoys variationing in Oregon and Wilshiptopon, and expectly enjoys ATV (single) en the Origina Casal She Wilshiptopon and Evolution on the Origina Casal She Wilshiptopon and Evolution in the Origina Casal She Wilshiptopon and Evolution in the Origina Casal She Wilshiptopon and Evolution on the Origina Casal She Wilshiptopon and Evolution on the Origina Casal She Wilshiptopon and Evolution of the Origina Casal She Wilshiptopon and Evolution of the Wilshipton of the Origina Casal She Wilshipton and Evolution of the Wilshipton of the Wilshipton and Evolution of the Wilshipton and Wilshipton and Evolution of the Wilshipton of the Wilshipton and Evolution of the Wilshipton and Wilshipton and Evolution of the Wilshipton an

#### HPFS FUTURE DIRECTIONS

support from the National Institutes of Health (NIII), and more specifically from the National Cancer Institutes (NI). Although we hope after ALC (will continue fluiding pur work for many years, we rannot be sure that we will receive the same level of support that we have in the past. Federal funding is being out for many areas of health-related research, and so we are assetting alternative sources of support for the future. We are strongly committed to the Health Professional Follows (Dis Nation 4 and wide) every harry we can to assure this long term satisfies the

We are also currently in the preliminary stages of starting a younger Health Professionals Follow-Up Study (II) with a chief goal of Inguing at the effects of disc and Ifforthion in John Health Professional Stages on which Iris

### **STUDY UPDATES & NEWS**

Many of you have impaired about the status of your study collapsages. Today, nearly 74 percent of the initial 51,529 health professionals enrolled in 1986 are still living, Benaukabb, wa achieved more than a 90 percent response rate to the 2004 questionnaire. As of 1906, nearly half of you were still working part time of full dies and 99 percent of you were married. Please find below a few more selected drancteristics of active Health Professional Follow-105 study corrictions from open confessions who as newested the 2004 questionnaile.

	Dentists n=18,087	Pharmacists n-2,637	Optometrists n=2,225	Osteopaths n=1,243	Podiatrists n=793	Veterinarians n=6,512
MEAN AGE (yrs)	70.9	70.6	72.9	70.2	70.5	70.1
MEAN WEIGHT	182	185	179	186	185	187
BODY MASS INDEX	(BMI), kg/m²					
BMI under 25 (normal)	43.5%	38.6%	47.7%	37.0%	38.8%	36.4%
BMI 25 to 30 (overweight)	45,4%	46.7%	42.9%	47.7%	44.3%	49.4%
BMI over 30 (obesel	11.1%	14.7%	9.5%	15.4%	16.9%	14.2%
EXERCISE: % who	exercise more t	han 40 minutes p	er week:			
Walking	63.4%	59.2%	61.7%	56.2%	54.2%	60.2%
Jogging	9.0%	4.6%	7.4%	9.1%	7.2%	5.8%
Running	4.4%	1.9%	3.2%	5.2%	3.2%	3.1%
SMOKING:						
% smokers:	3.3%	3.1%	3.5%	3.9%	3.4%	3.2%
MULTIVITAMIN US	E:					
% taking multivitamin	69.0%	75.0%	71.0%	64.0%	63.0%	69.0%
FLU VACCINE:						
% receiving flu vaccine	75,1%	79.7%	76.9%	79.5%	72.9%	73.9%
SLEEP PATTERNS:						
% who have difficul	ty falling asleep					
Most of the time	5.1%	4.2%	4.1%	7.2%	5.0%	4,1%
Sametimes	24.8%	25.9%	25.5%	24.5%	28.2%	25.2%
Barely	70.1%	69.9%	70.4%	58.4%	66.2%	70.7%
% who have trouble	waking up duri	ing the night				
Most of the time	27.2%	26.0%	27.0%	25.7%	22.1%	26.090
Sametimes	44,4%	45.5%	44.2%	42.4%	43,4%	44.8%
Rarely	28.4%	28.5%	28.9%	31.9%	34,5%	29.2%

## FREQUENTLY ASKED QUESTIONS

- Q. I have retired. Would you still like me to participate?
- A. Your continued participation is still extremely important. We value your contribution regardless of your work status. If you have seleted or changed professions, we still would like you to remain part of the Health Professional Follow-Up Study-Resize inform us of any new address or other contact information changes as that we can keep you obsersat of any new information and set only on the most recent questionnairs and newsletter. To update your contact information, maint less reference than the profession and newsletter. To update your contact information, maint less rejected Contactions or healthform hazards.
- Q. Based on your results, what would you recommend as a healthy diet?
- A. The Department of Martition at the Harved School of Public Haalth has a good website to use as a reference. This website contains information regarding the food pyramid fast and cholestent, carbohydrate, protein, fiber, fruits and vegetables, and stamins, as well as other nutrition information. Access the site at www.hsph.harvard.adu/mutritionsource
- Q. In the disease history section, why did you ask." Shape January 1,200 have you had any of the following clinician diseasesed conditions; but then you provide "Before 2004" as an option to answer:

  A. Not al contrictorest rescond to every hieraid cuestionneire, To copture information from any missed
- questionnaires, we provide the earlier years for you to mark. If you respond to all of the questionnaires, you would not have to provide a previously seported disease—unless you wanted to report it again to be certain we have it.



#### HANK YOU AGAIN for your valuable portic We are truly grateful for all you have provides

To report an address change or make a comment or provide feedback, please email the Project Coordinator at hipfs@hsph.harvard.edu or contact us as the address or phone number below.

9. Since January 1, 2004, have you had arry of

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