## Low-Fat Diet May Cut Breast Ca Recurrence 24%

## After 5 years of follow-up, disease recurred in 12% on a standard diet but only 9.8% on a low-fat regimen.

'A postmenopausal woman

who has been diagnosed

with breast cancer that is

estrogen receptor negative

should consider adopting

a low-fat diet.'

BY JANE SALODOF MACNEIL

Southwest Bureau

ORLANDO, FLA. — Breast cancer survivors on a low-fat diet had their rate of recurrence reduced by 24% in what may be the first phase III trial to show that a lifestyle change can protect cancer patients from relapse.

In a study with a median of 5 years of follow-up, investigator Rowan T. Chlebowski, M.D., determined the disease had recurred in 12.4% of postmenopausal women on a standard diet but

only 9.8% of those on the low-fat regimen.

The protective effect was stronger in women who had estrogen receptor–negative tumors, he reported at the annual meeting of the American Society of Clinical Oncology.

Although patients with such tumors have an elevated risk of relapse, a low-fat diet reduced their risk of recurrence by 42%.

For women who had estrogen receptor–positive cancers, the benefit was a 15% drop in recurrence risk.

"Many physicians would say, how [could] a lifestyle intervention work at all?" Dr. Chlebowski, an oncologist at the

Los Angeles Biomedical Research Institute in Torrance, Calif. acknowledged during a press briefing. "It seems unlikely just talking to a dietitian for eight visits [would] change anything."

During a plenary session discussion of the findings, Eric T. Winer, M.D., called the results "tantalizing," noting that "the

magnitude of effects are similar to many widely accepted interventions."

Begun in 1994 and stopped because the investigators ran out of funds, the Women's Intervention Nutrition Study (WINS) randomized

women at 37 cancer centers within 365 days of surgery for early-stage breast cancer.

The women had an average age of 52 years, with a range of 48 to 79 years. Many also received radiation and adjuvant chemotherapy according to standard protocols.

A total of 975 postmenopausal women were assigned to the low-fat arm, with a goal of reducing fat intake to 15% of calories; they cut their average intake to 33.3 g of fat daily. These women attended eight biweekly nutrition counseling sessions, met with a nutritionist every 3 months, and had monthly group meet-

ings. The program taught them to swap low-fat foods for high-fat foods (for example, eating cereal instead of baked goods), reduce intake of oils and margarines, and eat smaller portions of red

The 1,462 women in the control group consumed an average of 51.3 g of fat per day on their standard diets; they had "dietitian contact" every 3 months, but no additional dietary intervention.

The goal of the low-fat diet was fat reduction, not weight loss, Dr. Chlebowski stressed.

Nonetheless, the women lost a statistically significant 4 pounds on average that may have confounded the results by contributing to the treatment effect.

"The weight loss is remarkable, as women with breast cancer tend to gain weight," said Dr. Winer of Dana-Farber Cancer Institute in Boston. "Weight gain is common as individuals age."

He cautioned that the study does not establish that a low-fat diet will protect breast cancer survivors and is, therefore, insufficient to recommend that postmenopausal women with breast cancer use dietary fat reduction to reduce the risk of recurrence.

Dr. Winer called for more research into dietary intervention, noting that the preliminary evidence suggests that a low-fat diet and/or weight loss might, indeed, lower the risk of recurrence.

Dr. Chlebowski said the investigators will continue to follow the patients. The effects would persist for women committed to making a dietary change, he pre-

dicted. "It is a sustainable intervention because you are eating different foods rather than trying to lose weight."

In a statement issued by the American Cancer Society, deputy chief medical officer Len Lichtenfeld, M.D., said comparable findings would be cause for excitement if the trial had been a preventive chemotherapy study.

More trials are needed to determine whether large numbers of women can make and maintain such large dietary changes, he added.

"For now, a postmenopausal woman who has been diagnosed with breast cancer that is estrogen receptor negative should consider adopting a low-fat diet after speaking with her physician," Dr. Lichtenfeld said. "Until this study has been confirmed by others, we can't say with absolute certainty that this will be beneficial for her breast cancer," he said.

## - VERBATIM -

'I hope that members of the college will recognize that if you [witness] egregious testimony ... you now have a resource, a place you can go and have it heard ....'

Dr. Charles B. Hammond, Duke University, p. 46

## Moderate Exercise Improves Breast Cancer Outcomes

BY MICHELE G. SULLIVAN
Mid-Atlantic Bureau

Women who exercise moderately after a diagnosis of breast cancer experience a 20%-50% reduction in their risk of breast cancer death or breast cancer recurrence, data from the Nurses' Health Study suggest.

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researchers said.

The survival advantage is particularly strong for women who have estrogen or progesterone receptor–positive tumors. These women experienced a 50% decrease in the risk of breast cancer death, reported Michelle D. Holmes, M.D., of Harvard Medical School, Boston, and her colleagues.

"Our results suggest a possible hormonal mechanism for improved survival among women who are

physically active," the researchers said. Physical activity might also increase survival through short- and long-term improvements in insulin resistance and reduction in hyperinsulinemia (JAMA 2005;293:2479-86).

Since the maximum benefit occurred with moderate levels of exercise (walking

3-5 hr/wk at a moderate pace), the researchers concluded that women with breast cancer should follow the exercise recommendations set forth by the Centers for Disease Control and Prevention: exercise at moderate intensity for 30 or more minutes per day, at least 5 days per week. It has been estimated that women de-

crease their physical activity levels by 2 hr/wk after a diagnosis of breast cancer, and that less than one-third of survivors exercise at the recommended level.

The investigators used data from the national Nurses' Health Study for their retrospective analysis, which followed 2,987 women with stages I, II, or III breast cancer who were diagnosed between 1984 and 1998. The women were followed until June 2002 or death, whichever came first.

Activity was determined by self-report and analyzed by metabolic equivalent task (MET)-hours. Three MET-hours are equivalent to walking 2-2.9 mph for 1 hour.

After adjusting for variables such as age, smoking status, and hormone therapy use, women who engaged in 3-8.9 MET-

hr/wk had a 20% decreased risk of death from breast cancer, compared with those who exercised less.

Those women who were engaged in 9-14.9 MET-hr/wk had a 50% decreased risk. There was no additional benefit for more exercise: women who engaged in 15-23.9 MET-hr/wk had a 44% decreased

risk, and women who exercised more than that had a 40% decreased risk.

Risk of recurrence also was lowest for women who engaged in 9-14.9 MET-hr/wk. These women had a 43% decreased risk, compared with women who accrued less than 3 MET-hr/wk.

Exercise also improved 10-year breast cancer survival rates, the re-

searchers said. The survival rate was 86% for less than 3 MET-hr/wk; 89% for 3-8.9 MET-hr/wk; and 92% for at least 9 MET-hr/wk.

The protective benefit was similar

among overweight women and those of normal weight, and greater for women with hormone receptor–positive tumors. Those with hormone receptor–positive tumors who exercised moderately had a 50% decreased risk, compared with a 9% decreased risk for those whose tumors lacked hormone receptors.

Exercise also was

particularly beneficial for women with more advanced Women with stage III cancer who engaged in at least 9 MET-hr/wk had a 63% decreased risk of breast cancer death, compared with women with stage III cancer who exercised less. However, the researchers noted, these results were based on only 76 women and 15

breast cancer deaths.

When they analyzed risk by type of exercise, the researchers found that both walking and vigorous exercise contributed to lowering the risks.

