therapy had died as of Dec. 31, 2007, when primary data analysis began. After statistical adjustment for age, socioeconomic status, comorbidity, use of other CYP 2D6 drugs, and timing and duration of tamoxifen therapy, investigators found that the breast cancer mortality risk was increased 24% among women who were coprescribed paroxetine during 25% of their tamoxifen treatment.

If patients took paroxetine longer (that is, for more than half of their tamoxifen course) their breast cancer mortality risk rose to 54%. Patients who took both drugs for 75% of the time they received tamoxifen had a 91% risk of breast cancer mortality ($P = .0028$).

Mortality from any cause was also sharply elevated among women who took paroxetine for 75% or more of their tamoxifen course ($P = .0027$).

The striking results were significant only for paroxetine, and not for other SSRIs—including fluoxetine, sertraline, fluvoxamine, or citalopram—that were taken concurrently with tamoxifen, reported Dr. Catherine M. Kelly at the meeting.

Dr. Kelly hypothesized that the explanation lies in the degree to which various SSRIs inhibit CYP 2D6. "Paroxetine is the only SSRI that is an irreversible—or 'suicide'—inhibitor of CYP 2D6," she said in an interview.

The dose-response curve of the study, with escalating mortality risk paralleling time on paroxetine, adds significant weight to the findings with regard to paroxetine, marketed as Paxil by GlaxoSmithKline. (The company did not respond to a request for a comment.)

Fluoxetine is also a potent inhibitor of CYP 2D6, but was not shown to increase breast cancer mortality in the study. "I would like to see further data on that and would use caution in using any of the drugs that inhibit CYP 2D6 in women who are taking tamoxifen, said Dr. Kelly, who was with the University of Toronto Sunnybrook Health Sciences Centre while conducting the study and is currently a breast medical oncology fellow at the University of Texas M.D. Anderson Cancer Center in Houston.

"There are other options," she noted, including non-SSRI antidepressants that do not inhibit CYP 2D6.

Women need to discuss their choices with a medical oncologist, psychiatrist, or family physician before undergoing tamoxifen therapy, she suggested. ■

Survival: Breast Conservation vs. Mastectomy

SAN ANTONIO — Breast conservation therapy resulted in significantly better 5-year overall survival, compared with mastectomy, investigators found in a study of 202 patients with triple receptor–negative breast cancer.

Triple receptor–negative breast tumors lack estrogen-, progesterone-, and Her-2/neu-receptor expression. These aggressive cancers account for 15%-20% of the more than 1 million breast cancers diagnosed each year worldwide.

"Despite the aggressive nature [of these tumors], our hypothesis was that breast conservation therapy [might be a] viable option for some patients," Dr. Catherine C. Parker said at the annual Academic Surgical Congress.

She and her colleagues at Louisiana State University, Shreveport, studied outcomes of 63 patients (31%) who had breast conservation therapy and 139 who received mastectomy. Cancer recurrence rates and survival were the primary outcomes. Mean tumor size at baseline was significantly greater in the mastectomy group, 3.1 cm, versus 2.5 cm in the breast conservation group. A total of 26% of the mastectomy patients had T3 or T4 tumors, compared with 5% of the breast conservation group, a statistically significant difference.

All patients were offered standard of care treatment and surveillance. The mean follow-up was 53 months. Disease-free survival at 5 years was 56% for the mastectomy group and 69% for the breast conservation therapy group. The difference was not statistically significant, Dr. Parker said.

"Five-year overall survival was significantly better for breast conservation therapy [89% vs. 69%]," said Dr. Parker of the department of surgery at LSU.

Reasons for disparity in overall survival include the larger mean tumor size and more advanced stage of disease in the mastectomy group, Dr. Parker said.

Recurrence rates were 30% for the breast conservation group and 43% for the mastectomy group.

A multivariate analysis indicated that the surgical approach had no effect on disease-free or overall survival.

Dr. Parker had no relevant disclosures.

—Damian McNamara