

Breast cancer patients largely find radiation therapy experience better than expected

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A new survey finds breast cancer patients' actual radiation therapy experiences largely exceeded their expectations. The survey, which addressed the fears and misconceptions regarding radiation therapy for breast cancer, found that more than three-fourths of the breast cancer patients surveyed found their experiences with radiation therapy, including overall and specific long-term and short-term side effects, to be less "scary" than anticipated, according to research presented today at the 59th Annual Meeting of the American Society for Radiation Oncology (ASTRO).

"Radiation oncologists know firsthand that our [patients](#) come in with fears and sometimes misconceptions. Unlike many other treatments and fields of medicine, it is very hard to imagine what [radiation therapy](#) is like," said Narek Shaverdian, MD, lead author of the study and a [radiation oncology](#) resident at the David Geffen School of Medicine at the University of California, Los Angeles (UCLA). "Still, it is surprising to find that upwards of 90 percent of women surveyed agree that if future patients knew the reality of the radiation therapy experience, they would be less afraid of [treatment](#)."

"Advances in radiation therapy technologies over the past several decades and the increased use of hypofractionation—where radiation is given in larger doses across fewer sessions—have afforded patients more convenient treatment options, as well as lower toxicity rates in many situations," said Dr. Shaverdian.

"Our study shows that women who received modern [breast](#) radiation therapy overwhelmingly found the treatment experience far better than expected. The negative stories out there are frightening and pervasive, but they generally are not reflective of the actual experience," said Susan McCloskey, MD, MSHS, assistant professor at the David Geffen School of Medicine at UCLA, Director of the Breast Service at UCLA Radiation Oncology

and senior author of the study.

Surveys were sent to all patients who received treatment for [breast cancer](#) at a UCLA-affiliated multidisciplinary breast cancer clinic between 2012 and 2016. Eligible patients had six or more months of follow-up and were without tumor recurrence. Sixty-five percent of these 502 patients returned surveys, and study findings are based on these 327 responses. The median age of survey respondents was 59 years (range 28-89 years).

Patients represented various disease stages; 18 percent had stage 0 breast cancer; 38 percent stage I; 34 percent stage II; and 9 percent stage III. Eighty-two percent underwent breast conserving surgery, 13% had axillary dissection, 37% received chemotherapy, and 70% received endocrine therapy. All patients received radiation therapy (RT), delivered as either standard whole-breast RT with or without regional nodal coverage, hypofractionated whole-breast RT, post-mastectomy RT, or partial breast RT.

Patients completed the survey a median of 31 months (range 6-61 months) after completing radiation therapy. Survey questions assessed fears and beliefs about [breast cancer treatment](#) and side effects, as well as how the actual experience compared to initial expectations. Specifically, patients were asked if the treatment experience, short-term side effects and long-term side effects were as expected, worse than expected or better than expected.

Nine in ten patients (90%) found the actual experience of breast radiation therapy to be "less scary" than anticipated. Overall short-term and long-term side effects of radiation were better than expected or as expected for 83 percent and 84 percent of respondents, respectively. Patients also reported that side effects were less severe than or as expected for short-term breast pain (75%), skin changes (61%) and fatigue (78%), as well as for

long-term appearance changes (85%), breast pain (79%), breast size changes (73%) and breast textural changes (70%).

More than two-thirds (68%) of these breast cancer patients reported that they had little to no prior knowledge of radiation therapy at the time of their diagnosis, yet nearly half (47%) also shared that they had previously read or heard "frightening" stories of serious side effects from radiation therapy. Nearly all women surveyed (94%) responded that they were initially fearful of receiving radiation therapy. The most common initial fears related to radiation therapy were concerns about damage to internal organs (40%), skin burning (24%) and becoming radioactive (7%). Very few patients found confirmation for these negative stories during treatment, however; among 327 respondents, eight women (3%) found the negative stories they previously read about radiation therapy to be true and six women (2%) found the negative stories they heard from family and friends to be true. The trend of finding negative stories to be largely untrue was even more pronounced among patients who underwent breast conservation therapy. Nine in ten survey respondents agreed that "After treatment, I now realize that radiation therapy is not as bad as they say it is," and/or that "If future patients knew the 'real truth' about radiation therapy, they would be less scared about treatment."

"We hope that these data, which reflect the voices of past [breast cancer patients](#), can help to counsel future patients and their physicians on the actualities of the modern breast [radiation therapy](#) experience," said Dr. Shaverdian. "Patients who have received this treatment provide the most credible account of its actual impact, and their accounts show that outdated, negative stereotypes of breast radiation are almost universally found to be untrue."

Provided by American Society for Radiation Oncology

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