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Influencing factors and evolving trends for contralateral prophylactic mastectomy in breast cancer patients

Background: While mastectomy has no survival advantage over conservation management in breast cancer (BC) patients who undergo surgical treatment, the number of bilateral mastectomies (BM) in the United States is increasing.

Methods: We investigated socio-economic factors and clinicopathologic characteristics of 508 BC patients from our institution with unilateral BC who underwent mastectomy between 2000 and 2009 and analyzed which of these factors influenced patients' decision with unilateral cancer to undergo BM. From 508 patients with unilateral BC, 397 underwent unilateral mastectomy (UM) and 111 BM.

Results: Our study showed that BM was more likely to be chosen by younger patients (less than 50 years old, $p < 0.001$); patients with private insurance ($p < 0.05$); residence in urban settings ($p < 0.05$) and plans for subsequent reconstruction ($p < 0.05$). Marital status, smoking history, family cancer history, BC stage and grade did not significantly impact patient's choice of BM vs UM.

Conclusion: Our results showed that patients with unilateral BC, who are younger (< 50 years), have private insurance, reside in urban settings, or plan for subsequent reconstruction are more likely to undergo BM for unilateral BC. Influencing factors and evolving trends for contralateral prophylactic mastectomy in BC patients with unilateral breast cancer in the United States will be compared and contrasted to our findings.

Biography

Sneha Bhat received her undergraduate degree in Biochemistry from Mary Baldwin College in Staunton, VA, in 2008 and her Medical Degree from University of TN Health Science Center in Memphis, TN, in 2013. Currently, she is a PGY-3 General Surgery at University of Tennessee Medical Center in Knoxville, TN.

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