

SUPPLEMENTAL DIGITAL CONTENT

Table, Supplemental Digital Content 1. Patient Demographic Characteristics by Reconstruction Status.

	All Patients (N=346,418)	Underwent Reconstruction		P- Value
		No (N=270,912)	Yes (N=75,506)	
Age (Years) – Median (IQR)	59 (49 - 71)	63 (51 - 74)	51 (44 - 59)	<0.001
Race/Ethnicity				<0.001
Non-Hispanic White	246,040 (71%)	188,794 (69.7%)	57,246 (75.8%)	
Non-Hispanic Black	34,736 (10%)	28,109 (10.4%)	6,627 (8.8%)	
Hispanic	34,472 (10%)	28,038 (10.3%)	6,434 (8.5%)	
Other	30,276 (8.7%)	25,311 (9.3%)	4,965 (6.6%)	
Insurance Status				<0.001
Insured	176,300 (50.9%)	125,176 (46.2%)	51,124 (67.7%)	
Uninsured	3,095 (0.9%)	2,522 (0.9%)	573 (0.8%)	
Unknown – Diagnosed Before 2007	164,940 (47.6%)	141,673 (52.3%)	23,267 (30.8%)	
Income (in Tens)*** – Median (IQR)	5795 (5010 - 7048)	5795 (5010 - 7048)	5797 (5159 - 7048)	<0.001
Patient Region				<0.001
Alaska	383 (0.1%)	354 (0.1%)	29 (0%)	
East	126,717 (36.6%)	93,489 (34.5%)	33,228 (44%)	
Northern Plains	36,161 (10.4%)	27,770 (10.3%)	8,391 (11.1%)	
Pacific Coast	167,269 (48.3%)	136,731 (50.5%)	30,538 (40.4%)	
Southwest	15,888 (4.6%)	12,568 (4.6%)	3,320 (4.4%)	
Social Support				<0.001
Yes (Married or Partner)	199252 (57.5%)	146776 (54.2%)	52476 (69.5%)	
No (Single, Divorced/Separated, Widowed)	147166 (42.5%)	124136 (45.8%)	23030 (30.5%)	
ER Status				<0.001
ER+	244,577 (70.6%)	187,357 (69.2%)	57,220 (75.8%)	
ER-	70,850 (20.5%)	56,776 (21%)	14,074 (18.6%)	
ER Borderline	593 (0.2%)	470 (0.2%)	123 (0.2%)	
PR Status				<0.001
PR+	20,4152 (58.9%)	154,484 (57%)	49,668 (65.8%)	
PR-	106,766 (30.8%)	85,671 (31.6%)	21,095 (27.9%)	
PR Borderline	1,639 (0.5%)	1,368 (0.5%)	271 (0.4%)	
HER2 Status*				<0.001

	All Patients (N=346,418)	Underwent Reconstruction		P- Value
		No (N=270,912)	Yes (N=75,506)	
HER2+	18,452 (16.2%)	12,324 (16%)	6,128 (16.5%)	
HER2-	87,588 (76.7%)	58,778 (76.4%)	28,810 (77.4%)	
HER2 Borderline	2,557 (2.2%)	1,889 (2.5%)	668 (1.8%)	
Laterality				0.28
Bilateral	35 (0%)	30 (0%)	5 (0%)	
Unilateral	346,282 (100%)	270,793 (100%)	75,489 (100%)	
Grade				<0.001
1	55,378 (16%)	42,029 (15.5%)	13,349 (17.7%)	
2	136,654 (39.4%)	105,609 (39%)	31,045 (41.1%)	
3	129,297 (37.3%)	102,814 (38%)	26,483 (35.1%)	
Unknown	25,089 (7.2%)	20,460 (7.6%)	4,629 (6.1%)	
Tumor Size (cm) – Median (IQR)	2 (1.2 - 3.4)	2.1 (1.3 - 3.5)	1.8 (1 - 3)	<0.001
T Stage				<0.001
T0/Tis	1,233 (0.4%)	932 (0.3%)	301 (0.4%)	
T1	167,788 (48.4%)	124,753 (46%)	43,035 (57%)	
T2	120,085 (34.7%)	96,511 (35.6%)	23,574 (31.2%)	
T3	30,057 (8.7%)	24,563 (9.1%)	5,494 (7.3%)	
T4	17,125 (4.9%)	15,738 (5.8%)	1,387 (1.8%)	
TX	9,477 (2.7%)	7,837 (2.9%)	1,640 (2.2%)	
N Stage				<0.001
N0	197,231 (56.9%)	150,138 (55.4%)	47,093 (62.4%)	
N1	107,969 (31.2%)	86,220 (31.8%)	21,749 (28.8%)	
N2	23,868 (6.9%)	19,689 (7.3%)	4,179 (5.5%)	
N3	12,932 (3.7%)	11,013 (4.1%)	1,919 (2.5%)	
NX	3,765 (1.1%)	3,274 (1.2%)	491 (0.7%)	
Treatment with Chemotherapy	160,434 (46.3%)	120,343 (44.4%)	40,091 (53.1%)	<0.001
Treatment with Radiation	75,554 (21.8%)	60,479 (22.3%)	15,075 (20%)	<0.001
Timing of Radiation**				<0.001
Neoadjuvant Radiation Only	1,048 (1.4%)	888 (1.5%)	160 (1.1%)	
Adjuvant Radiation Only	73,617 (97.4%)	58,871 (97.3%)	14,746 (97.8%)	
Neoadjuvant and Adjuvant Radiation	538 (0.7%)	452 (0.7%)	86 (0.6%)	
Other (Intraoperative/Unknown)	351 (0.5%)	268 (0.4%)	83 (0.6%)	
Surgery Type				<0.001

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Modified Radical	196,813 (56.8%)	167,645 (61.9%)	29,168 (38.6%)	
Radical	2,676 (0.8%)	1,969 (0.7%)	707 (0.9%)	
Simple/Complete	143,457 (41.4%)	101,298 (37.4%)	42,159 (55.8%)	
Subcutaneous Mastectomy	3472 (1%)	0 (0%)	3,472 (4.6%)	
Contralateral Prophylactic	59,988 (17.3%)	30,436 (11.2%)	29,552 (39.1%)	<0.001

*Only includes patients diagnosed 2010 and after.

**Only includes patients who underwent radiation therapy.

***Includes N=106,070 patients only.

Percentages may not add up to 100 due to rounding or missing values.