

**S1 Table.** Baseline characteristics of patients diagnosed with advanced breast cancer after propensity score matching

	Total	Prior malignancy	No prior malignancy	Standardized difference	Adjusted p <sup>a)</sup>
Age (yr)				0.049	0.755
< 40	10	5 (1.1)	5 (1.1)		
40-64	343	177 (38.0)	166 (35.6)		
> 64	579	284 (60.9)	295 (63.3)		
Race				0.053	0.883
White	694	348 (74.7)	346 (74.2)		
Black	106	55 (11.8)	51 (10.9)		
Hispanic	72	33 (7.1)	39 (8.4)		
Other	60	30 (6.4)	30 (6.4)		
Marital status				0.054	0.876
Married	366	189 (40.6)	177 (38.0)		
Single	115	56 (12.0)	59 (12.7)		
Sep/wid/div	409	201 (43.1)	208 (44.6)		
Unknown	42	20 (4.3)	22 (4.7)		
Histology				0.058	0.675
IDC	704	356 (76.4)	348 (74.7)		
ILC	156	73 (15.7)	83 (17.8)		
Other	72	37 (7.9)	35 (7.5)		
Grade				0.045	0.926
G1	63	32 (6.9)	31 (6.7)		
G2	324	158 (33.9)	166 (35.6)		
G3/G4	403	202 (43.3)	201 (43.1)		
Unknown	142	74 (15.9)	68 (14.6)		
ER				0.045	0.792
Positive	576	284 (60.9)	292 (62.7)		
Negative	250	126 (27.0)	124 (26.6)		
Unknown	106	56 (12.0)	50 (10.7)		
PR				0.021	0.952
Positive	431	214 (45.9)	217 (46.6)		
Negative	386	193 (41.4)	193 (41.4)		
Unknown	115	59 (12.7)	56 (12.0)		
Treatment				0.117	0.364
No	329	177 (38.0)	152 (32.6)		
Surg only	199	95 (20.4)	104 (22.3)		
Chemo only	201	99 (21.2)	102 (21.9)		
Surg and Chemo	203	95 (20.4)	108 (23.2)		

Cause of death <sup>b)</sup>			
Alive	124	46 (9.9)	78 (16.7)
Breast cancer specific	598	279 (59.9)	319 (68.5)
All other sites	210	141 (30.3)	69 (14.8)
Total	932	466	466

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Values are presented as number (%). Sep/wid/div, separated/widowed/divorced; IDC, infiltrating ductal carcinoma; ILC, infiltrating lobular carcinoma; ER, estrogen receptor; PR, progesterone receptor; Surg, surgery; Chemo, chemotherapy. <sup>a)</sup>The adjusted p-value means the two-sided propensity-score adjusted p-value, <sup>b)</sup>Dependent variable, no necessary to calculate the standardized difference and the adjusted p-value.