

**Supplementary Table 3.** Clinical characteristics related to the survival in patients underwent lumpectomy with HER2-positive DCIS

Characteristic	Survival group	Death group	P-value
No. of patients	1,620	10	
Age (yr) <sup>a)</sup>	48.33 ± 9.43 (n = 1,619)	55.50 ± 13.33 (n = 10)	0.123
Height (cm) <sup>a)</sup>	157.74 ± 5.38 (n = 1,384)	149.86 ± 6.94 (n = 7)	0.024
Weight (kg) <sup>a)</sup>	56.69 ± 8.14 (n = 1,386)	51.57 ± 3.41 (n = 7)	0.097
Body mass index (kg/m <sup>2</sup> ) <sup>a)</sup>	22.81 ± 3.23 (n = 1,383)	23.06 ± 2.28 (n = 7)	0.835
Family history of breast cancer			0.171
No	1,184 (73.1)	5 (50.0)	
Yes	143 (8.8)	2 (20.0)	
Missing	293 (18.1)	3 (30.0)	
Marriage			0.522
No	108 (6.7)	1 (10.0)	
Yes	1,125 (69.4)	7 (70.0)	
Missing	387 (23.9)	2 (20.0)	
Symptom of breast			0.761
No	876 (54.1)	6 (60.0)	
Yes	744 (45.9)	4 (40.0)	
Multifocality			0.064
No	1,195 (73.8)	4 (40.0)	
Yes	91 (5.6)	2 (20.0)	
Missing	334 (20.6)	4 (40.0)	
Tumor size (cm)	1.52 ± 1.61 (n = 1,620)	2.08 ± 2.59 (n = 10)	0.510
Nuclear grade			0.605
I, II	692 (42.7)	3 (30.0)	
III	232 (14.3)	2 (20.0)	
Missing	696 (43.0)	5 (50.0)	
Estrogen receptor			0.066
Negative	262 (16.2)	4 (40.0)	
Positive	1,351 (83.4)	6 (60.0)	
Missing	7 (0.4)	0 (0)	
Progesterone receptor			0.020
Negative	401 (24.8)	6 (60.0)	
Positive	1,212 (74.8)	4 (40.0)	
Missing	7 (0.4)	0 (0)	
HER2 IHC			0.619
2+	196 (12.1)	0 (0)	
3+	1,424 (87.9)	10 (100)	
Ki67 (continuous) <sup>a)</sup>	10.87 ± 10.80 (n = 933)	8.33 ± 2.58 (n = 6)	0.565
Endocrine therapy			0.620
Not done	270 (16.7)	2 (20.0)	
Done	1,191 (73.5)	5 (50.0)	
Missing	159 (9.8)	3 (30.0)	

Values are presented as number only, mean ± standard deviation, or number (%).

HER2, human epidermal growth factor receptor 2; DCIS, ductal carcinoma *in situ*; IHC, immunohistochemistry.

<sup>a)</sup>Missing value.