

Table SI. Distribution of different combinations of distant metastasis among the molecular subtypes of patients with metastatic breast cancer of the present cohort (n=166).

Metastatic site(s)	HR+/HER2- (n=92)	HR+/HER2+ (n=26)	HR-/HER2+ (n=21)	HR-/HER2- (n=27)	P-value
1 Site	55	12	12	13	
Bone-only	14 (25.5)	0 (0.0)	3 (25.0)	0 (0.0)	0.034
Lung-only	5 (9.1)	2 (16.7)	1 (8.3)	0 (0.0)	0.537
Pleural-only	1 (1.8)	0 (0.0)	0 (0.0)	1 (7.7)	0.645
Liver-only	3 (5.5)	4 (33.3)	3 (25.0)	3 (23.1)	0.011
Brain-only	1 (1.8)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
DLN-only	12 (21.8)	1 (8.3)	5 (41.7)	7 (53.8)	0.029
Other-only	19 (34.5)	5 (41.7)	0 (0.0)	2 (15.4)	0.032
2 Sites	20	8	4	10	
Bone + Lung	3 (15.0)	1 (12.5)	1 (25.0)	1 (10.0)	0.848
Bone + Pleural	2 (10.0)	1 (12.5)	0 (0.0)	0 (0.0)	0.695
Bone + Liver	1 (5.0)	1 (12.5)	0 (0.0)	0 (0.0)	0.547
Bone + Brain	0 (0.0)	2 (25.0)	0 (0.0)	0 (0.0)	0.039
Bone + DLN	0 (0.0)	0 (0.0)	0 (0.0)	1 (10.0)	0.524
Lung + Pleural	3 (15.0)	0 (0.0)	0 (0.0)	0 (0.0)	0.563
Lung + Liver	1 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
Lung + Brain	1 (5.0)	0 (0.0)	0 (0.0)	1 (10.0)	1.000
Liver + DLN	2 (10.0)	0 (0.0)	0 (0.0)	0 (0.0)	0.768
Other	7 (35.0)	3 (37.5)	3 (75.0)	7 (70.0)	0.231
3 Sites	10	5	2	0	
Bone + Liver + DLN	1 (10)	1 (20)	1 (50)	0 (0.0)	0.493
Lung + Pleural + DLN	1 (10)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
Lung + Pleural + Liver	1 (10)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
Bone + Pleural + Liver	2 (20)	0 (0.0)	0 (0.0)	0 (0.0)	0.632
Bone + Lung + DLN	1 (10)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
Bone + Liver + Brain	1 (10)	1 (20)	0 (0.0)	0 (0.0)	1.000
Bone + Lung + Liver	0 (0.0)	1 (20)	0 (0.0)	0 (0.0)	0.412
Other	3 (30)	2 (40)	1 (50)	0 (0.0)	1.000
≥4 Sites	7	1	3	4	
Bone + Lung + Pleural + DLN	1 (14.3)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
Bone + Brain + Liver + Lung	2 (28.5)	0 (0.0)	0 (0.0)	0 (0.0)	0.733
Bone + Lung + Pleural + Liver	3 (42.9)	0 (0.0)	2 (66.7)	1 (25.0)	0.874
Bone + Lung + Liver + Other	0 (0.0)	0 (0.0)	1 (33.3)	0 (0.0)	0.267
Bone + Lung + Liver + DLN	0 (0.0)	0 (0.0)	0 (0.0)	1 (25.0)	0.533
Other	1 (14.3)	1 (100.0)	0 (0.0)	2 (50.0)	0.174

Values are expressed as n (%). DLN, distant lymph node; HR, hormone receptor; HER2, human epidermal growth factor receptor 2.

Table SII. Distribution of different combinations of distant metastasis among the molecular subtypes of patients with metastatic breast cancer from the Surveillance, Epidemiology and End Results dataset (n=15,322).

Metastatic site(s)	HR+/HER2- (n=9,222)	HR+/HER2+ (n=2,710)	HR-/HER2+ (n=1,406)	HR-/HER2- (n=1,984)	P-value
1 Site	6042	1546	761	1200	
Bone-only	4,640 (76.8)	913 (59.1)	252 (33.1)	468 (39.0)	<0.001
Lung-only	734 (12.1)	255 (16.5)	206 (27.1)	418 (34.8)	<0.001
Liver-only	446 (7.4)	299 (19.3)	254 (33.4)	190 (15.8)	<0.001
Brain-only	77 (1.3)	28 (1.8)	30 (3.9)	70 (5.8)	<0.001
DLN-only	70 (1.2)	33 (2.1)	16 (2.1)	39 (3.3)	<0.001
Other-only	75 (1.2)	18 (1.2)	3 (0.4)	15 (1.3)	0.183
2 Sites	2289	774	399	541	
Bone+Lung	1,085 (47.4)	217 (28.0)	72 (18.0)	144 (26.6)	<0.001
Bone+Liver	698 (30.5)	344 (44.5)	177 (44.3)	158 (29.2)	<0.001
Bone+Brain	171 (7.5)	62 (8.0)	22 (5.5)	27 (5.0)	0.080
Bone+DLN	63 (2.7)	23 (3.0)	13 (3.3)	13 (2.4)	0.856
Lung+Liver	134 (5.9)	79 (10.2)	71 (17.8)	107 (19.8)	<0.001
Lung+Brain	27 (1.2)	8 (1.0)	15 (3.8)	46 (8.5)	<0.001
Lung+DLN	26 (1.1)	8 (1.0)	7 (1.7)	12 (2.2)	0.175
Liver+Brain	13 (0.6)	8 (1.0)	10 (2.5)	7 (1.3)	0.004
Liver+DLN	5 (0.2)	11 (1.4)	3 (0.8)	1 (0.2)	<0.001
Other	67 (2.9)	14 (1.8)	9 (2.3)	26 (4.8)	0.019
3 Sites	722	312	183	173	
Bone+Brain+Liver	51 (7.1)	22 (7.1)	21 (11.5)	19 (11.0)	0.092
Bone+Brain+Lung	88 (12.2)	34 (10.9)	17 (9.3)	28 (16.2)	0.227
Bone+Brain+DLN	1 (0.1)	2 (0.6)	2 (1.1)	0 (0.0)	0.085
Bone+Liver+Lung	437 (60.5)	184 (59.0)	96 (52.4)	94 (54.3)	<0.001
Bone+Liver+DLN	17 (2.3)	18 (5.8)	13 (7.1)	4 (2.3)	0.004
Bone+Lung+DLN	49 (6.8)	14 (4.4)	10 (5.5)	8 (4.6)	0.471
Lung+Liver+Brain	12 (1.7)	8 (2.6)	11 (6.0)	9 (5.2)	0.001
Liver+Brain+DLN	2 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	1.000
Liver+Lung+DLN	5 (0.7)	5 (1.6)	4 (2.2)	3 (1.8)	0.170
Other	60 (8.3)	25 (8.0)	9 (4.9)	8 (4.6)	0.215
≥4 Sites	169	78	63	70	
Bone+Brain+Liver+Lung	71 (42.0)	37 (47.4)	39 (61.9)	36 (51.4)	<0.001
Bone+Brain+Liver+DLN	2 (1.2)	0 (0.0)	1 (1.6)	0 (0.0)	0.449
Bone+Brain+Lung+DLN	4 (2.4)	1 (1.3)	1 (1.6)	1 (1.4)	0.865
Bone+Liver+Lung+DLN	20 (11.8)	8 (10.3)	10 (15.8)	6 (8.6)	0.028
Brain+Liver+Lung+DLN	1 (0.6)	1 (1.3)	1 (1.6)	0 (0.0)	0.267
Other	71 (42.0)	31 (39.7)	11 (17.5)	27 (38.6)	0.006

Values are expressed as n (%). DLN, distant lymph node; HR, hormone receptor; HER2, human epidermal growth factor receptor 2.