

S2 Table. Pathological information of breast cancer tissues in the tumor microarray

Tissue No.	Pathological Type	Pathological Staging	Clinical Staging	T	N	M	Vascular Invasion	Lymph Node Infiltrated
1	Intraductal breast cancer	II - III	0	Tis	N0	M0	-	Axillary (0/12), pectoralis (0/2)
2	Intraductal breast cancer	II	0	Tis	N0	M0	-	0/12
3	Invasive breast cancer of no special type	II - III	1A	T1	N0	M0	-	-
4	Invasive breast cancer of no special type, with intraductal cancer	II - III	1A	T1	N0	M0	-	-
5	Invasive breast cancer of no special type	II	1A	T1	N0	M0	-	-
6	Invasive breast cancer of no special type, locally with squamous cell carcinoma	II - III	1A	T1	N0	M0	-	Axillary (0/21), subclavian (0/1)
7	Invasive breast cancer of no special type	III	2A	T2	N0	M0	-	-
8	Invasive breast cancer of no special type	II - III	2A	T2	N0	M0	-	-
9	Invasive breast cancer of no special type	II	2A	T2	N0	M0	-	-
10	Invasive breast cancer of no special type	I - II	2A	T2	N0	M0	-	-
11	Invasive breast cancer of no special type	II - III	2A	T2	N0	M0	-	-
12	Invasive breast cancer of no special type, with invasive papillary structure	II	2A	T2	N0	M0	-	Axillary (0/13)
13	Invasive breast cancer of no	II	2A	T2	N0	M0	Cancer cells are	Axillary (0/15)

	special type						found in vessels.	
14	Invasive breast cancer of no special type	II	2A	T2	N0	M0	-	Axillary (0/19)
15	Invasive breast cancer of no special type, with invasive papillary structure	II	2A	T2	N0	M0	-	Axillary (0/13)
16	Invasive breast cancer of no special type, with invasive lobular carcinoma	II - III	2A	T2	N0	M0	With Vascular Invasion	Axillary (0/7)
17	Invasive breast cancer of no special type	II - III	2A	T2	N0	M0	Tumor thrombus is found in vessels.	Adjacent to tumor (0/3)
18	Invasive breast cancer of no special type	II - III	2A	T2	N0	M0	Tumor thrombus is found in vessels.	Axillary (0/2)
19	Invasive breast cancer of no special type	I - II	2A	T2	N0	M0	-	Axillary (0/9)
20	Invasive breast cancer of no special type, partial intraductal cancer	II	2A	T2	N0	M0	-	Axillary (0/13)
21	Invasive breast cancer of no special type, partially with invasive papillary structure	II - III	2A	T2	N0	M0	-	Axillary (0/12), pectoralis (0/2)
22	Invasive breast cancer of no special type	II - III	2B	T2	N1	M0	-	-
23	Invasive breast cancer of no special type	II	2B	T2	N1	M0	-	-
24	Invasive breast cancer of no special type	II - III	2B	T2	N1	M0	-	-
25	Invasive breast cancer of no special type	II	2B	T2	N1	M0	-	Axillary lymph nodes

26	Invasive breast cancer of no special type	II - III	2B	T2	N1	M0	-	-
27	Invasive breast cancer of no special type + invasive lobular carcinoma	II - III	2B	T2	N1	M0	-	-
28	Invasive breast cancer of no special type + mucinous carcinoma	II	2B	T2	N1	M0	-	-
29	Invasive breast cancer of no special type	II	2B	T2	N1	M0	-	1/14
30	Invasive breast cancer of no special type	II	2B	T2	N1	M0	-	Axillary (1/13)
31	Invasive breast cancer of no special type	II	3A	T2	N2	M0	-	-
32	Invasive breast cancer of no special type	II	3A	T2	N2	M0	-	-
33	Invasive breast cancer of no special type	II	3A	T2	N2	M0	-	-
34	Invasive breast cancer of no special type	II	3A	T2	N2	M0	-	-
35	Invasive breast cancer of no special type	II	3A	T2	N2	M0	-	Axillary (5/14)
36	Invasive breast cancer of no special type	II - III	3A	T2	N2	M0	-	Axillary (4/10), subclavian (0/3)
37	Invasive breast cancer of no special type	II	3A	T3	N1	M0	-	Ipsilateral axillary (1/17), pectoralis (1/1)
38	Invasive breast cancer of no special type	II	3C	T1	N3	M0	-	-
39	Invasive breast cancer of no special type	II - III	3C	T2	N3	M0	-	-

40	Invasive breast cancer of no special type	I - II	3C	T2	N3	M0	-	-
41	Invasive breast cancer of no special type + invasive micropillary carcinoma	III	3C	T2	N3	M0	-	-
42	Invasive breast cancer of no special type	II - III	3C	T2	N3	M0	Tumor thrombus is found in vessels.	Ipsilateral Axillary (12/19)
43	Invasive breast cancer of no special type	II - III	3C	T3	N3	M0	-	-
44	Invasive breast cancer of no special type + invasive lobular carcinoma	II	3C	T3	N3	M0	-	-
45	Invasive breast cancer of no special type	II	3C	T3	N3	M0	<i>lymph vessels</i>	-