

Table S1. Clinicopathological characteristics of breast cancer patients with RSEM-IPI.

Characteristics	Group 1 [n = 53 (%)]	Group 2 [n = 51 (%)]	P
Age, years			0.427
< 45	11 (20.7)	13 (25.5)	
≥45	42 (79.3)	38 (74.5)	
BMI (kg/m ²)			0.571
<24	29 (54.7)	26 (51.0)	
≥24	24 (45.3)	25 (49.0)	
Diabetes			0.279
Yes	3 (5.7)	1 (2.0)	
No	50 (94.3)	50 (98.0)	
Smoking			0.593
Yes	4 (7.5)	3 (5.9)	
No	49 (92.5)	48 (94.1)	
Axillary surgery			0.839
SLNB	31 (58.5)	29 (56.9)	
ALND	22 (41.5)	22 (43.1)	
T stage (AJCC 8)			0.709
Tis or T ₁	20 (37.7)	22 (43.1)	
T ₂	30 (56.6)	27 (52.9)	
T ₃	3 (5.7)	2 (4.0)	
Lymph node status (AJCC 8)			0.777
Negative	28 (52.8)	26 (51.0)	
Positive	25 (47.2)	25 (49.0)	
Tumor stage			0.827
0-I	18 (33.9)	19 (37.2)	
II	30 (56.6)	28 (54.9)	
III	5 (9.5)	4 (7.9)	
Hormone receptor status			0.511
Negative	13 (24.5)	14 (27.4)	
Positive	39 (73.5)	37 (72.6)	
Unknown	1 (2.0)	0 (0.0)	
Her-2 status			0.849
Negative	44 (83.0)	43 (84.3)	
Positive	9 (17.0)	8 (15.7)	
Unknown	0 (0.0)	0 (0.0)	
Neoadjuvant chemotherapy			0.592
Yes	11 (20.7)	9 (17.6)	
No	42 (79.3)	42 (82.4)	
Adjuvant radiotherapy			0.570
Yes	30 (56.6)	27 (52.9)	
No	23 (43.4)	24 (47.1)	

BMI, body mass index; SLNB, sentinel lymph node biopsy; ALND, axillary lymph node

dissection. AJCC, American joint of committee on cancer.

Table S2. The postoperative complications of early-stage breast cancer patients with RSEM-IPI in the different learning phrases.

Characteristics	Group 1 <i>n</i> (%)			Group 2 <i>n</i> (%)			Phrase 1	Phrase 2
	Phrase 1 <i>n</i> = 18	Phrase 2 <i>n</i> = 35	<i>P</i>	Phrase 1 <i>n</i> = 25	Phrase 2 <i>n</i> = 24	<i>P</i>	Group 1 vs. 2 <i>P</i>	Group 1 vs. 2 <i>P</i>
Bleeding	2 (11.1)	0 (0.0)	0.111	5 (20.0)	2 (8.3)	0.189	0.719	0.161
NAC ischemia	4 (22.2)	1 (2.8)	0.040	5 (20.0)	1 (4.2)	0.417	1.000	1.000
Skin ischemia	3 (16.7)	1 (2.8)	0.108	5 (20.0)	2 (8.3)	0.417	1.000	0.736
Infection	5 (27.8)	3 (8.6)	0.104	9 (36.0)	3 (12.5)	0.095	0.570	0.959
Implant loss	2 (11.1)	0 (0.0)	0.111	4 (16.0)	0 (0.0)	0.110	0.992	-
Implant expose	4 (22.2)	1 (2.8)	0.040	8 (32.0)	3 (12.5)	0.171	0.718	0.357
Drainage duration (days)	20±5	14±3	0.001	23±5	13±4	0.001	0.553	0.097

NAC, nipple-areolar complex.