

Table 1 Basic Information of Non-Advanced Stage Breast Cancer Patients with University and Higher Education

		University and Higher Education	p
n		36	
Age (%)	30-39	15 (41.7)	<0.001
	40-49	11 (30.6)	
	50-59	6 (16.7)	
	60-69	2 (5.6)	
	70-79	0 (0.0)	
	<30	2 (5.6)	
Insurance (%)	Nanjing City Medical Insurance	26 (72.2)	<0.001
	Jiangsu Province Cross-Regional Medical Insurance	7 (19.4)	
	Out-of-Province Cross-Regional Medical Insurance	1 (2.8)	
	Self-Payment	1 (2.8)	
	Jiangsu Province Medical Insurance	1 (2.8)	
BMI (%)	18.5-23.9	26 (72.2)	0.159
	24-27	6 (16.7)	
	28-32	2 (5.6)	
	>32	1 (2.8)	
	<18.5	1 (2.8)	
Marital Status (%)	Married	33 (91.7)	0.422
	Single	3 (8.3)	
	Divorced	0 (0.0)	
	Widowed	0 (0.0)	
Children Status(%)	0	6 (16.7)	<0.001
	1	23 (63.9)	
	2	7 (19.4)	
	≥3	0 (0.0)	
Patients eligible for surgery and staging		University and Higher Education	p
n		28	
surgery	breast-conserving surgery	13 (46.4)	<0.001
	Mastectomy	13 (46.4)	
	Reconstructive surgery	2 (7.1)	
Stage	Early	25 (89.3)	<0.001
	Middle	3 (10.7)	

Table 2: Differences in Socioeconomic and Pathological Characteristics Among 128 Patients with Different Educational Backgrounds

		Elementary school or below	Middle school	University and above	p
n	level	24	76	28	
Age (%)	30-39	1 (4.2)	11 (14.5)	10 (35.7)	0.002
	40-49	5 (20.8)	26 (34.2)	9 (32.1)	

	50-59	15 (62.5)	31 (40.8)	5 (17.9)	
	60-69	1 (4.2)	6 (7.9)	1 (3.6)	
	65 岁	0 (0.0)	0 (0.0)	1 (3.6)	
	70-79	2 (8.3)	0 (0.0)	0 (0.0)	
	<30	0 (0.0)	2 (2.6)	2 (7.1)	
Insurance (%)	Nanjing City Medical Insurance	6 (25.0)	23 (30.3)	21 (75.0)	0.001
	Jiangsu Province Cross-Regional Medical Insurance	7 (29.2)	21 (27.6)	5 (17.9)	
	Out-of-Province Cross-Regional Medical Insurance	9 (37.5)	17 (22.4)	1 (3.6)	
	Self-Payment	2 (8.3)	6 (7.9)	0 (0.0)	
	Jiangsu Province Medical Insurance	0 (0.0)	9 (11.8)	1 (3.6)	
BMI (%)	18.5-23.9	11 (45.8)	41 (53.9)	21 (75.0)	0.334
	24-27	11 (45.8)	26 (34.2)	5 (17.9)	
	28-32	1 (4.2)	7 (9.2)	1 (3.6)	
	>32	1 (4.2)	2 (2.6)	1 (3.6)	
Educational Background (%)	University and above	0 (0.0)	0 (0.0)	28 (100.0)	<0.001
	Elementary school or below	24 (100.0)	0 (0.0)	0 (0.0)	
	Middle school	0 (0.0)		76 (100.0)	
Marital Status (%)	Married	22 (91.7)	67 (88.2)	27 (96.4)	0.699
	Single	0 (0.0)	3 (3.9)	1 (3.6)	
	Divorced	0 (0.0)	1 (1.3)	0 (0.0)	
	Widowed	2 (8.3)	5 (6.6)	0 (0.0)	
Children Status(%)	0	1 (4.2)	2 (2.6)	3 (10.7)	<0.001
	1	6 (25.0)	55 (72.4)	20 (71.4)	
	2	11 (45.8)	18 (23.7)	5 (17.9)	
	≥3	6 (25.0)	1 (1.3)	0 (0.0)	
Patients eligible for surgery	breast-conserving surgery	4 (16.7)	25 (32.9)	13 (46.4)	0.01
	Mastectomy	20 (83.3)	51 (67.1)	13 (46.4)	
	Reconstructive surgery	0 (0.0)	0 (0.0)	2 (7.1)	
Stage(%)	Early	17 (70.8)	64 (84.2)	25 (89.3)	0.187
	Middle	7 (29.2)	12 (15.8)	3 (10.7)	
stage (%)	In situ carcinoma	0 (0.0)	1 (1.3)	1 (3.6)	0.702
	Stage I	5 (20.8)	24 (31.6)	7 (25.0)	
	Stage II	10 (41.7)	35 (46.1)	15 (53.6)	
	Stage III	7 (29.2)	12 (15.8)	3 (10.7)	
	Neoadjuvant pCR	2 (8.3)	4 (5.3)	2 (7.1)	
Annual household income(%)	< 100,000 RMB	16 (66.7)	53 (69.7)	9 (32.1)	<0.001
	100,000 to 200,000 RMB	6 (25.0)	8 (10.5)	6 (21.4)	
	200,000 to 500,000 RMB	1 (4.2)	2 (2.6)	8 (28.6)	
	Confidential	1 (4.2)	13 (17.1)	5 (17.9)	
Monthly medication treatment cost acceptance (%)	<2,000RMB	12 (50.0)	48 (63.2)	16 (57.1)	0.27
	2,000 to 5,000RMB	12 (50.0)	22 (28.9)	11 (39.3)	
	5,000 to 10,000 RMB	0 (0.0)	1 (1.3)	1 (3.6)	

>10,000 RMB

0 (0.0)

5 (6.6)

0 (0.0)

Table 3: Comparison of areas of interest among breast cancer patients with different educational backgrounds (156 cases)

		Elementary school or below	Middle school	University and above	p
What are the high-risk factors for breast cancer? (%)	Not interested	0	0	0	0.2
	Somewhat interested	2 (7.7)	15 (16.0)	2 (5.6)	
	Very interested	24 (92.3)	79 (84.0)	34 (94.4)	
How can I prevent breast cancer? (%)	Not interested	0 (0.0)	2 (2.1)	1 (2.8)	0.832
	Somewhat interested	2 (7.7)	6 (6.4)	1 (2.8)	
	Very interested	24 (92.3)	86 (91.5)	34 (94.4)	
How is breast cancer diagnosed? (%)	Not interested	0 (0.0)	1 (1.1)	0 (0.0)	0.369
	Somewhat interested	4 (15.4)	13 (13.8)	1 (2.8)	
	Very interested	22 (84.6)	80 (85.1)	35 (97.2)	
What does the breast cancer pathology report reveal? (%)	Not interested	0	0	0	0.051
	Somewhat interested	3 (11.5)	14 (14.9)	0 (0.0)	
	Very interested	23 (88.5)	80 (85.1)	36 (100.0)	
Is genetic testing necessary for breast cancer? (%)	Not interested	0 (0.0)	1 (1.1)	0 (0.0)	0.131
	Somewhat interested	6 (23.1)	18 (19.1)	1 (2.8)	
	Very interested	20 (76.9)	75 (79.8)	35 (97.2)	
What are the dietary guidelines for breast cancer patients? (%)	Not interested	0	0	0	0.539
	Somewhat interested	1 (3.8)	2 (2.1)	0 (0.0)	
	Very interested	25 (96.2)	92 (97.9)	36 (100.0)	
What are the lifestyle recommendations for breast cancer patients, including exercise and weight control? (%)	Not interested	0	0	0	0.237
	Somewhat interested	2 (7.7)	3 (3.2)	0 (0.0)	
	Very interested	24 (92.3)	91 (96.8)	36 (100.0)	
How is the severity of breast cancer assessed, including the risk of recurrence and mortality? (%)	Not interested	0	0	0	0.233
	Somewhat interested	1 (3.8)	10 (10.6)	1 (2.8)	
	Very interested	25 (96.2)	84 (89.4)	35 (97.2)	
What are the available treatments for breast cancer? (%)	Not interested	0 (0.0)	1 (1.1)	0 (0.0)	0.953
	Somewhat interested	2 (7.7)	7 (7.4)	3 (8.3)	
	Very interested	24 (92.3)	86 (91.5)	33 (91.7)	
What is the difference in survival between early-stage breast cancer treatment and no treatment? (%)	Not interested	0 (0.0)	0 (0.0)	1 (2.8)	0.169
	Somewhat interested	2 (7.7)	15 (16.0)	2 (5.6)	
	Very interested	24 (92.3)	79 (84.0)	33 (91.7)	
How do I choose between breast-conserving surgery and mastectomy? (%)	Not interested	0 (0.0)	4 (4.3)	2 (5.6)	0.326
	Somewhat interested	3 (11.5)	10 (10.6)	8 (22.2)	
	Very interested	23 (88.5)	80 (85.1)	26 (72.2)	
Tell me about breast reconstruction surgery. (%)	Not interested	5 (19.2)	22 (23.4)	7 (19.4)	0.514
	Somewhat interested	4 (15.4)	25 (26.6)	12 (33.3)	
	Very interested	17 (65.4)	47 (50.0)	17 (47.2)	
What is involved in breast cancer rehabilitation and exercise? (%)	Not interested	0	0	0	0.534
	Somewhat interested	1 (3.8)	7 (7.4)	1 (2.8)	
	Very interested	25 (96.2)	87 (92.6)	35 (97.2)	
Which types of breast cancer require chemotherapy? (%)	Not interested	0 (0.0)	3 (3.2)	0 (0.0)	0.714
	Somewhat interested	3 (11.5)	11 (11.7)	5 (13.9)	

What are the options for HER2-targeted therapy, and which drugs can be chosen? (%)	Very interested	23 (88.5)	80 (85.1)	31 (86.1)	0.107
	Not interested	0 (0.0)	7 (7.4)	5 (13.9)	
	Somewhat interested	3 (11.5)	21 (22.3)	10 (27.8)	
How should I select and take hormonal therapy drugs? (%)	Very interested	23 (88.5)	66 (70.2)	21 (58.3)	0.291
	Not interested	0 (0.0)	4 (4.3)	2 (5.6)	
	Somewhat interested	1 (3.8)	17 (18.1)	6 (16.7)	
Who needs radiation therapy for breast cancer treatment? (%)	Very interested	25 (96.2)	73 (77.7)	28 (77.8)	0.541
	Not interested	0 (0.0)	2 (2.1)	0 (0.0)	
	Somewhat interested	2 (7.7)	14 (14.9)	3 (8.3)	
How should I manage treatment side effects? (%)	Very interested	24 (92.3)	78 (83.0)	33 (91.7)	0.14
	Not interested	0	0	0	
	Somewhat interested	1 (3.8)	14 (14.9)	2 (5.6)	
Which breast cancer patients have a genetic risk, and what does it entail? (%)	Very interested	25 (96.2)	80 (85.1)	34 (94.4)	0.11
	Not interested	0	0	0	
	Somewhat interested	0 (0.0)	13 (13.8)	3 (8.3)	
Can I get pregnant and what should I consider after a breast cancer diagnosis? (%)	Very interested	26 (100.0)	81 (86.2)	33 (91.7)	0.211
	Not interested	1 (3.8)	19 (20.2)	6 (16.7)	
	Somewhat interested	5 (19.2)	23 (24.5)	6 (16.7)	
What is the follow-up procedure after breast cancer surgery? (%)	Very interested	20 (76.9)	52 (55.3)	24 (66.7)	0.67
	Not interested	0	0	0	
	Somewhat interested	1 (3.8)	6 (6.4)	1 (2.8)	
What is the significance of participating in clinical trials? (%)	Very interested	25 (96.2)	88 (93.6)	35 (97.2)	0.583
	Not interested	0 (0.0)	8 (8.5)	3 (8.3)	
	Somewhat interested	7 (26.9)	29 (30.9)	10 (27.8)	
What is the current status and future outlook of breast cancer immunotherapy? (%)	Very interested	19 (73.1)	57 (60.6)	23 (63.9)	0.773
	Not interested	0	0	0	
	Somewhat interested	5 (19.2)	13 (13.8)	6 (16.7)	
What symptoms may indicate recurrence or metastasis? (%)	Very interested	21 (80.8)	81 (86.2)	30 (83.3)	0.126
	Not interested	0	0	0	
	Somewhat interested	0 (0.0)	9 (9.6)	1 (2.8)	
What is the significance of treatment after recurrence or metastasis? (%)	Very interested	26 (100.0)	85 (90.4)	35 (97.2)	0.731
	Not interested	0 (0.0)	2 (2.1)	0 (0.0)	
	Somewhat interested	1 (3.8)	8 (8.5)	3 (8.3)	
How can breast cancer patients receive psychological support? (%)	Very interested	25 (96.2)	84 (89.4)	33 (91.7)	0.614
	Not interested	0 (0.0)	1 (1.1)	0 (0.0)	
	Somewhat interested	1 (3.8)	12 (12.8)	3 (8.3)	
Tell me about palliative care and end-of-life care. (%)	Very interested	25 (96.2)	81 (86.2)	33 (91.7)	0.702
	Not interested	4 (15.4)	17 (18.1)	6 (16.7)	
	Somewhat interested	3 (11.5)	22 (23.4)	8 (22.2)	
How do I seek regular outpatient care? (%)	Very interested	19 (73.1)	55 (58.5)	22 (61.1)	0.364
	Not interested	0 (0.0)	0 (0.0)	1 (2.8)	
	Somewhat interested	4 (15.4)	23 (24.5)	8 (22.2)	
How does day-care treatment work? (%)	Very interested	22 (84.6)	71 (75.5)	27 (75.0)	0.012
	Not interested	1 (3.8)	0 (0.0)	4 (11.1)	
	Somewhat interested	4 (15.4)	30 (31.9)	10 (27.8)	
What should I be aware of during hospitalization? (%)	Very interested	21 (80.8)	64 (68.1)	22 (61.1)	0.099
	Not interested	0 (0.0)	1 (1.1)	3 (8.3)	
	Somewhat interested	5 (19.2)	29 (30.9)	10 (27.8)	

What are the medical insurance reimbursement policies for various medications? (%)	Very interested	21 (80.8)	64 (68.1)	23 (63.9)	0.294
	Not interested	0 (0.0)	0 (0.0)	1 (2.8)	
	Somewhat interested	3 (11.5)	11 (11.7)	7 (19.4)	
How should follow-up examinations be conducted after treatment ends? (%)	Very interested	23 (88.5)	83 (88.3)	28 (77.8)	0.127
	Not interested	0 (0.0)	0 (0.0)	1 (2.8)	
	Somewhat interested	1 (3.8)	14 (14.9)	2 (5.6)	
If problems arise, who can I seek help from? (%)	Very interested	25 (96.2)	80 (85.1)	33 (91.7)	0.689
	Breast Surgeon	11 (42.3)	40 (42.6)	16 (44.4)	
	Medical Oncologist	7 (26.9)	37 (39.4)	14 (38.9)	
	Radiation Oncologist	1 (3.8)	1 (1.1)	0 (0.0)	
	I don't know	7 (26.9)	16 (17.0)	6 (16.7)	
Family annual income (%)	< 100,000 RMB	16 (61.5)	64 (68.1)	10 (27.8)	<0.001
	100,000 to 200,000 RMB	7 (26.9)	11 (11.7)	9 (25.0)	
	200,000 to 500,000 RMB	2 (7.7)	2 (2.1)	10 (27.8)	
	>500,000 RMB	0	0	0	
	Confidential	1 (3.8)	17 (18.1)	7 (19.4)	
Monthly budget for medication treatment (%)	<2,000RMB	12 (46.2)	61 (64.9)	22 (61.1)	0.334
	2,000 to 5,000RMB	13 (50.0)	27 (28.7)	13 (36.1)	
	5,000 to 10,000 RMB	0 (0.0)	1 (1.1)	1 (2.8)	
	>10,000 RMB	1 (3.8)	5 (5.3)	0 (0.0)	