

Supplemental Information

Association of comprehensive geriatric assessment with multidisciplinary treatment decision and adherence in elderly breast cancer patients

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Supplementary Table 1. Clinical and pathological characteristics in relation to age

Parameters	Cases, n (%)	Groups			P value
		60-69 yrs (n=87)	70-79 yrs (n=102)	≥80 yrs (n=22)	
Pathologic type					
IDC	117(55.5)	46(52.9)	57(55.9)	14(63.6)	0.672
ILC	10(4.7)	6(6.9)	3(2.9)	1(4.5)	
Others	84(39.8)	35(40.2)	42(41.2)	7(31.8)	
Histologic Grade					
I	14(6.6)	4(4.6)	9(8.8)	1(4.5)	0.789
II	96(45.5)	40(46)	45(44.1)	11(50)	
III	37(17.5)	16(18.4)	19(18.6)	2(9.1)	
N/A	64(30.3)	27(31)	29(28.4)	8(36.4)	
Tumor Size					
≤2cm	126(59.7)	55(63.2)	61(59.8)	10(45.5)	0.316
>2cm	85(40.3)	32(36.8)	41(40.2)	12(54.5)	
Lymph node involvement					
Negative	117(55.5)	48(55.2)	58(56.9)	11(50)	0.141
Positive	94(44.5)	39(44.8)	44(43.1)	11(50)	
ER expression					
Negative	41(19.4)	17(19.5)	21(20.6)	3(13.6)	0.740
Positive	170(80.6)	70(80.5)	81(79.4)	19(86.4)	
PR expression					
Negative	56(26.5)	24(27.6)	28(27.5)	4(18.2)	0.623
Positive	155(73.5)	63(72.4)	74(72.5)	18(81.8)	
HER2 expression					
Negative	192(91)	79(90.8)	92(90.2)	21(95.5)	0.756
Positive	19(9)	8(9.2)	10(9.8)	1(4.5)	
Ki-67 expression					
<14%	94(44.5)	39(44.8)	44(43.1)	11(50)	0.840
≥14%	117(55.5)	48(55.2)	58(56.9)	11(50)	

Abbreviations: IDC=invasive ductal carcinoma; ILC=invasive lobular carcinoma; ER=estrogen receptor; PR=progesterone receptor; HER2=human epidermal growth factor receptor 2

Supplementary Table 2. Comprehensive Geriatric Assessment (CGA) parameters scores by age group in elderly breast cancer patients

CGA parameters	Cases, n (%)	Groups			<i>P</i> value
		Total (n=211)	60-69 yrs (n=87)	70-79 yrs (n=102)	
VES-13					
≤2	173(82)	82(94.3)	83(81.4)	8(36.4)	<0.001
≥3	38(18)	5(5.7)	19(18.6)	14(63.6)	
BI					
100	171(81)	78(89.7)	84(82.4)	9(40.9)	<0.001
≤95	40(19)	9(10.3)	18(17.6)	13(59.1)	
ECOG PS					
≤1	182(86.3)	75(86.2)	91(89.2)	16(72.7)	0.126
≥2	29(13.7)	12(13.8)	11(10.8)	6(27.3)	
ADL					
26	151(71.6)	71(81.6)	73(71.6)	7(31.8)	<0.001
≤25	60(28.4)	16(18.4)	29(28.4)	15(68.2)	
IADL					
23	119(56.4)	59(67.8)	53(52)	7(31.8)	0.004
≤22	92(43.6)	28(32.2)	49(48)	15(68.2)	
6-CIT					
0-7	147(69.7)	68(78.2)	65(63.7)	14(63.6)	0.045
8-9	29(13.7)	9(10.3)	19(18.6)	1(4.5)	
10-28	35(16.6)	10(11.5)	18(17.6)	7(31.8)	
CCI-adjustment					
0	174(82.5)	76(87.4)	82(80.4)	16(72.7)	0.203
≥1	37(17.5)	11(12.6)	20(19.6)	6(27.3)	
ASA Score					
1	117(55.5)	52(59.8)	54(52.9)	11(50)	0.554
≥2	94(44.5)	35(40.2)	48(47.1)	11(50)	
G8^a					
>14	66(34.2)	30(36.6)	32(36)	4(18.2)	0.211
≤14	127(65.8)	52(63.4)	57(64)	18(81.8)	

Abbreviations: VES-13=Vulnerable Elders Survey; BI=Barthel Index; ECOG PS=Eastern Cooperative Oncology Group Performance Status; ADL=Activities of Daily Living; IADL=Instrumental Activities of Daily Living; 6-CIT=6-Item Cognitive Impairment Test; CCI=Charlson Comorbidity Index; ASA Score=American Society of Anesthesiologists Score; G8=Geriatric-8.

Significant *P* values (<0.05) are in bold.

^aG8 unknown in 18 patients.

Supplementary Table 3. Comprehensive Geriatric Assessment (CGA) parameters scores and association with breast or lymph node surgery in elderly breast cancer patients

CGA parameters	Cases, n (%)	Breast surgery		<i>P</i> value	Lymph node surgery		<i>P</i> value
		Mastectomy (n=150)	Breast conserving surgery (n=61)		Yes (n=199)	No (n=12)	
VES-13							
≤2	173(82)	121(80.7)	52(85.2)	0.433	165(82.9)	8(66.7)	0.188
≥3	38(18)	29(19.3)	9(14.8)		34(17.1)	4(33.3)	
BI							
100	171(81)	121(80.7)	50(82)	0.827	163(81.9)	8(66.7)	0.222
≤95	40(19)	29(19.3)	11(18)		36(18.1)	4(33.3)	
ECOG PS							
≤1	182(86.3)	133(88.7)	49(80.3)	0.111	174(87.4)	8(66.7)	0.073
≥2	29(13.7)	17(11.3)	12(19.7)		25(12.6)	4(33.3)	
ADL							
26	151(71.6)	108(72)	43(70.5)	0.826	146(73.4)	5(41.7)	0.018
≤25	60(28.4)	42(28)	18(29.5)		53(26.6)	7(58.3)	
IADL							
23	119(56.4)	85(56.7)	34(55.7)	0.902	116(58.3)	3(25)	0.023
≤22	92(43.6)	65(43.3)	27(44.3)		83(41.7)	9(75)	
6-CIT							
0-7	147(69.7)	102(68)	45(73.8)	0.559	140(70.4)	7(58.3)	0.672
8-9	29(13.7)	23(15.3)	6(9.8)		27(13.6)	2(16.7)	
10-28	35(16.6)	25(16.7)	10(16.4)		32(16.1)	3(25)	
CCI-adjustment							
0	174(82.5)	126(84)	48(78.7)	0.358	164(82.4)	10(83.3)	0.935
≥1	37(17.5)	24(16)	13(21.3)		35(17.6)	2(16.7)	
ASA Score							
1	117(55.5)	85(56.7)	32(52.5)	0.577	114(57.3)	3(25)	0.027
≥2	94(44.5)	65(43.3)	29(47.5)		85(42.7)	9(75)	
G8^a							
>14	66(34.2)	41(30.4)	25(43.1)	0.087	62(34.3)	4(33.3)	0.948
≤14	127(65.8)	94(69.6)	33(56.9)		119(65.7)	8(66.7)	

Abbreviations: VES-13=Vulnerable Elders Survey; BI=Barthel Index; ECOG PS=Eastern Cooperative Oncology Group Performance Status; ADL=Activities of Daily Living; IADL=Instrumental Activities of Daily Living; 6-CIT=6-Item Cognitive Impairment Test; CCI=Charlson Comorbidity Index; ASA Score=American Society of Anesthesiologists Score; G8=Geriatric-8.

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