Supplementary Online Content

Buzdar AU, Suman VJ, Meric-Bernstam F, et al. Disease-free and overall survival among patients with operable HER2-positive breast cancer treated with sequential vs concurrent chemotherapy: the ACOSOG Z1041 (Alliance) randomized clinical trial. JAMA Oncol. Published online September 6, 2018. doi:10.1001/jamaoncol.2018.3691

- eTable 1. Patient and Tumor Characteristics
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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Patient and Tumor Characteristics

	No. of Patients (%)		
Characteristic	Arm 1 (n=138)	Arm 2 (n=142)	
Median age in years (range)	50 (30-76)	50 (28-76)	
Race (self-reported)			
White	118 (85.5%)	114 (80 [.] 2%)	
Black or African American	13 (9.4%)	16 (11 3%)	
Asian	3 (2.2%)	5 (3.5%)	
American Indian or Alaska Native	2 (1.4%)	2 (1.4%)	
Not reported	2 (1.4%)	5 (3·5%)	
Ethnicity (self-reported)			
Hispanic or Latino	26 (18 8%)	38 (26.8%)	
Not Hispanic or Latino	110 (79 [.] 7%)	101 (71 [.] 1%)	
Not reported	2 (1.4%)	1 (2 [.] 2%)	
Body mass index			
Underweight/normal (BMI < 25·0)	43 (31 2%)	46 (32 4%)	
Overweight/obese (BMI ≥ 25·0)	95 (68.8%)	96 (67:6%)	
ECOG performance status			
0	129 (93·5%)	128 (90 [.] 1%)	
1	9 (6.5%)	14 (9 [.] 9%)	
Clinical tumor stage			
T1	8 (5.8%)	10 (7 [.] 0%)	
T2	76 (55 ⁻ 1%)	78 (54 [.] 9%)	
T3	41 (29 7%)	41 (28 [.] 9%)	
T4	13 (9.4%)	13 (9.2%)	
Clinical nodal stage			
N0	49 (35 5%)	52 (36.6%)	
N1	71 (51.5%)	82 (57.8%)	
N2	7 (5.1%)	7 (4.9%)	
N3	11 (8.0%)	1 (0.7%)	
Hormone receptor status	40 (25.50/)	FO (44.60/)	
ER positive/PR positive	49 (35.5%)	59 (41.6%)	
ER positive/PR negative ER negative/PR positive	31 (22·5%) 4 (2·9%)	23 (16·2%) 2 (1·4%)	
ER negative/PR negative	54 (39.1%)	58 (40.8%)	
Surgery performed	3 + (33 170)	30 (40 0 70)	
yes	130 (94.2%)	138 (97.2%)	
no, patient refusal	4 (2.9%)	2 (14%)	
no, physician discretion	2 (1.4%)	1 (0.7%)	
no, second primary diagnosis	1 (0.7%)	0	
no, drop in LVEF/developed pulmonary nodules	0	1 (0 [.] 7%)	
no, death due to other causes	1 (0.7%)	O	

Surgical findings		
pCR in breast and nodes	73 (52.9%)	71 (50.0%)
pCR in breast, residual disease in nodes	5 (3.6%)	6 (4.2%)
residual disease in breast but not in the nodes	35 (25.4%)	30 (21.1%)
residual disease in breast and nodes	17 (12.3%)	30 (21.1%)
residual disease in breast, nodes were not sampled	0	1 (0.7%)
surgery not performed	8 (5.8%)	4 (2.8%)
Trastuzumab after surgical resection	n=130	n=138
yes	121 (93.1%)	131 (94.9%)
no, due to cardiotoxicity	5 (3.8%)	2 (1.5%)
no, due to cytokine release syndrome	0	1 (0.7%)
no, due to disease progression	1 (0.8%)	0
not reported	3 (2.3%)	4 (2.9%)
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BMI – body mass index; ECOG – Eastern Cooperative Oncology Group; ER – estrogen receptor; HER2 - human epidermal growth factor receptor 2; LVEF - left ventricular ejection fraction; N – node; pCR – pathologic complete response; PR – progesterone receptor; T - tumor

eTable 2. Disease Events

	Vital status	Arm 1: FEC → P+T	Arm 2: P+T → FEC+T
First disease event		(n=138)	(n=142)
None	alive	116	115
	death	2	2
Local/regional recurrence	alive	5	3
	death	0	3
Distant recurrence	alive	7	10
	death	6	6
Second primary	alive	2	2
	death	0	1

FEC – 5-fluorouracil, epirubicin and cyclophosphamide; P – paclitaxel; T - trastuzumab

eTable 3. Sites of Distant Disease Recurrence and Second Primaries

FEC – 5-fluorouracil, epirubicin and cyclophosphamide; P – paclitaxel; T - trastuzumab

	Anatomic sites	Arm 1:	Arm 2:
		$FEC \rightarrow P+T$	$P+T \rightarrow FEC+T$
		(n=15)	(n=19)
Distant	bone	2	5
recurrence	recurrence bone + liver		1
	brain	5	2
	hilar, non-IP or mediastinal lymph nodes	0	3
	kidney	1	0
	liver	3	2
	lung	1	3
	sub pectoral lymph nodes	1	0
Second	malignant melanoma	1	0
primary	colorectal cancer	1	0
	lung cancer	0	2
	thyroid cancer	0	1