

Table S1. Timing for occurrence of first NYHA Class III/IV heart failure event.

	Adjuvant Phase	
	Cohort A: ddAC → TPH <i>n</i> = 199	Cohort B: FEC → DPH <i>n</i> = 198
Total number of patients, <i>n</i> (%)		
≥1 heart failure event occurring after first dose of any study drug	3 (1.5)	2 (1.0)
Time to first cardiac event after first dose of any study drug		
<0.5 year	3 (100.0)	0
≥0.5–<1 year	0	1 (50.0)
≥1 year	0	1 (50.0)
Study period of first cardiac event after first dose of any study drug		
Neoadjuvant	3 (100.0)	0
Prior to HER2 antibody therapy	0	0
During HER2 antibody therapy	3 (100.0)	0
Adjuvant	0	1 (50.0)
Treatment-free follow-up	0	1 (50.0)

For each variable, percentages are based on the number of patients in the corresponding row. Table includes cardiac events with onset from the first dose of any study drug through to the end of study, including TFFU period.

ddAC, dose-dense doxorubicin plus cyclophosphamide; DPH, docetaxel, pertuzumab, and trastuzumab; FEC, fluorouracil, epirubicin, and cyclophosphamide; HER2, human epidermal growth factor receptor 2; NYHA, New York Heart Association; TFFU, treatment-free follow-up; TPH, paclitaxel, pertuzumab, and trastuzumab.

Table S2. Timing for occurrence of first LVEF decline of $\geq 10\%$ points from baseline to $< 50\%$.

Total number of patients, <i>n</i> (%)	Adjuvant Phase	
	Cohort A: ddAC → TPH <i>n</i> = 199	Cohort B: FEC → DPH <i>n</i> = 198
≥ 1 LVEF decline of $\geq 10\%$ points from baseline to $< 50\%$ after the first dose of any study drug	27 (13.6)	24 (12.1)
Time to one LVEF decline of $\geq 10\%$ points from baseline to $< 50\%$ after first dose of any study drug	27	24
< 0.5 year	13 (48.1)	4 (16.7)
≥ 0.5 – < 1 year	10 (37.0)	12 (50.0)
≥ 1 year	4 (14.8)	8 (33.3)
Study period of first LVEF decline of $\geq 10\%$ points from baseline to $< 50\%$ after first dose of any study drug	27	24
Neoadjuvant	14 (51.9)	4 (16.7)
Prior to HER2 antibody therapy	0	1 (4.2)
During HER2 antibody therapy	14 (51.9)	3 (12.5)
Adjuvant	11 (40.7)	18 (75.0)
Treatment-free follow-up	2 (7.4)	2 (8.3)

For each variable, percentages are based on the number of patients in the corresponding row. Table includes LVEF significant declines with onset from the first dose of any study drug through to the end of study, including TFFU period.

ddAC, dose-dense doxorubicin plus cyclophosphamide; DPH, docetaxel, pertuzumab, and trastuzumab; FEC, fluorouracil, epirubicin, and cyclophosphamide; HER2, human epidermal growth factor receptor 2; LVEF, left ventricular ejection fraction; TFFU, treatment-free follow-up; TPH, paclitaxel, pertuzumab, and trastuzumab.

Table S3. Study treatment exposure across the neoadjuvant and adjuvant treatment periods.

	Neoadjuvant Phase		Adjuvant Phase	
	Cohort A: ddAC → TPH <i>n</i> = 199	Cohort B: FEC → DPH <i>n</i> = 198	Cohort A: ddAC → TPH <i>n</i> = 181	Cohort B: FEC → DPH <i>n</i> = 190
Pertuzumab	<i>n</i> = 195	<i>n</i> = 196	<i>n</i> = 180	<i>n</i> = 190
Median treatment duration, weeks (min–max)	12.0 (6.0–18.3)	12.0 (3.0–26.4)	39.0 (3.0–47.9)	39.0 (3.0–47.3)
Median number of cycles, <i>n</i> (min–max)	4.0 (2–6)	4.0 (1–6)	13.0 (1–13)	13.0 (1–14)
Number of dose interruptions/delays due to AEs, <i>n</i> (%)				
0	163 (83.6)	176 (89.8)	164 (91.1)	165 (86.8)
1	30 (15.4)	19 (9.7)	15 (8.3)	20 (10.5)
2	2 (1.0)	1 (0.5)	1 (0.6)	3 (1.6)
>2	0	0	0	2 (1.1)
Trastuzumab	<i>n</i> = 195	<i>n</i> = 197	<i>n</i> = 181	<i>n</i> = 190
Median treatment duration, weeks (min–max)	12.0 (6.0–18.3)	12.0 (3.0–18.0)	39.0 (3.0–47.9)	39.0 (3.0–47.3)
Median number of cycles, <i>n</i> (min–max)	4.0 (2–6)	4.0 (1–6)	13.0 (1–13)	13.0 (1–14)
Number of dose interruptions/delays due to AEs, <i>n</i> (%)				
0	154 (79.0)	170 (86.3)	165 (91.2)	164 (86.3)
1	38 (19.5)	26 (13.2)	14 (7.7)	22 (11.6)
2	3 (1.5)	1 (0.5)	2 (1.1)	2 (1.1)
>2	0	0	0	2 (1.1)

AE, adverse events; ddAC, dose-dense doxorubicin plus cyclophosphamide; DPH, docetaxel, pertuzumab, and trastuzumab; FEC, fluorouracil, epirubicin, and cyclophosphamide; TPH, paclitaxel, pertuzumab, and trastuzumab.

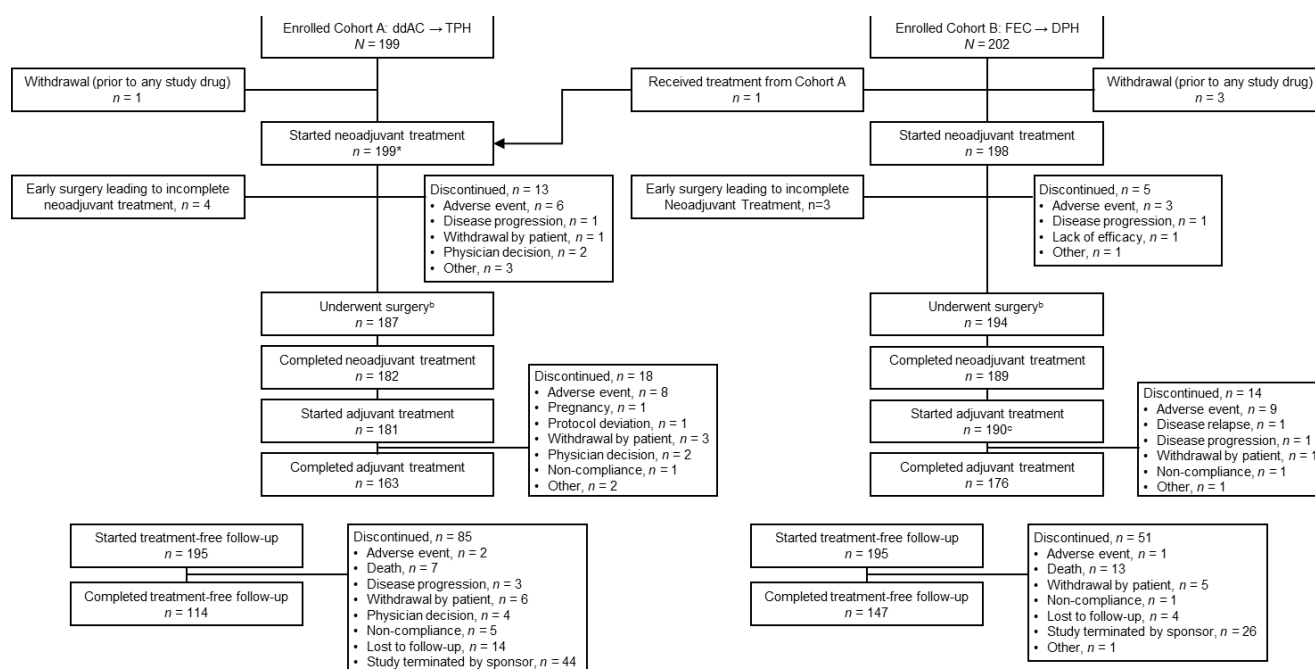


Figure S1. Patient disposition. ^a Includes one patient enrolled to Cohort B who received treatment from Cohort A; ^b Includes patients who had early surgery (incomplete neoadjuvant treatment), and patients who withdrew from the study but underwent surgery; ^c Cohort B includes a patient who did not complete neoadjuvant treatment but received adjuvant treatment; ^d The most common reason for study discontinuation was non-safety (76 patients (38.2%) in Cohort A and 37 patients (18.7%) in Cohort B), of which most were due to the end of study as per protocol (44 patients (22.1%) in Cohort A and 26 patients (13.1%) in Cohort B). ddAC, dose-dense doxorubicin plus cyclophosphamide; DPH, docetaxel, pertuzumab, and trastuzumab; FEC, fluorouracil, epirubicin, and cyclophosphamide; TPH, paclitaxel, pertuzumab, and trastuzumab.

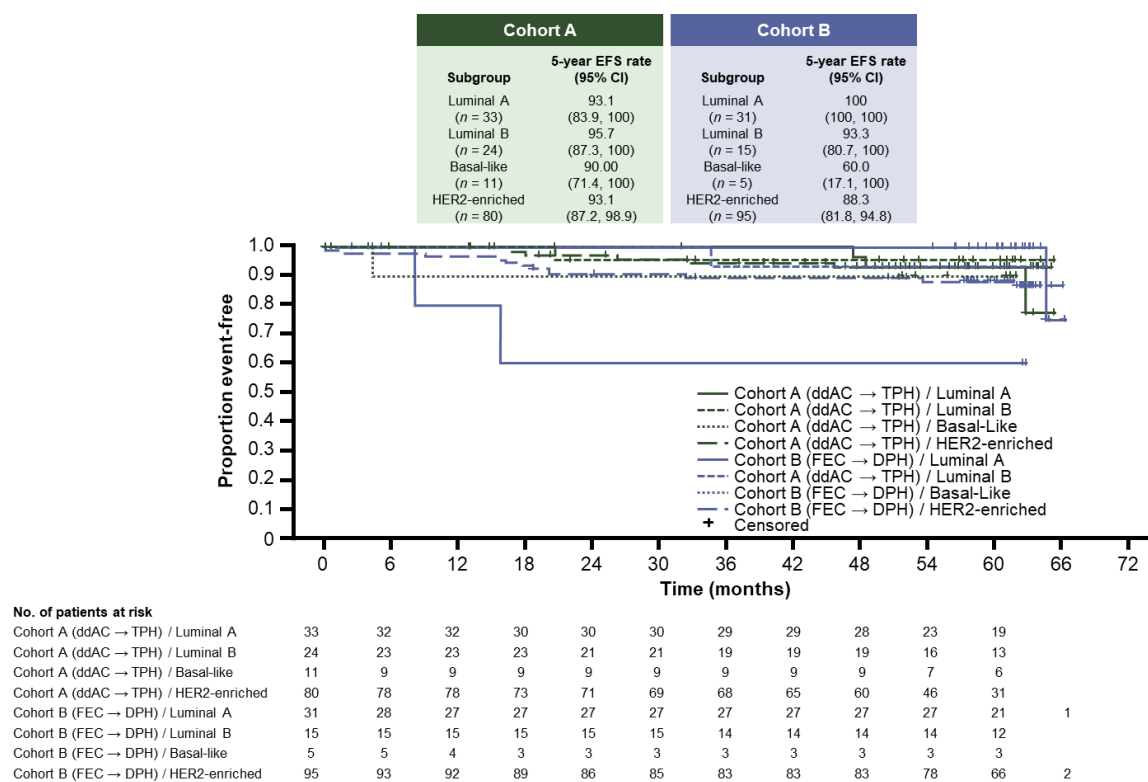


Figure S2. EFS by PAM50 classification. CI, confidence interval; ddAC, dose-dense doxorubicin plus cyclophosphamide; DPH, docetaxel, pertuzumab, and trastuzumab; EFS, event-free survival; FEC, fluorouracil, epirubicin, and cyclophosphamide; PAM50, prediction analysis of microarray 50; TPH, paclitaxel, pertuzumab, and trastuzumab.