

Supplemental Table 1. Kaplan-Meier estimates of overall distant recurrence free survival (DRFS) for 3 BCI risk groups in Stockholm TAM-treated and Multi-institutional cohorts.

Patient Subgroups	Stockholm TAM-treated		Multi-institutional	
	No. Patients (%)	DRFS (95% CI, %)	No. Patients (%)	DRFS (95% CI, %)
<i>Overall distant recurrence at 10 years</i>				
BCI low risk	202 (64%)	95.2 (92.2-98.3)	196 (55%)	93.4 (90.0-97.1)
BCI intermediate risk	65 (20%)	88.3 (80.5-96.9)	78 (22%)	76.7 (67.0-87.7)
BCI high risk	50 (16%)	78.9 (68.0-91.5)	84 (23%)	64.2 (54.5-75.5)

Supplemental Table 2. Overall distant recurrence: Univariate and multivariate Cox model analysis after stepwise variable selection by AIC of likelihood of overall distant recurrence in Stockholm TAM and Multi-institutional cohorts for all ER+ and ER+, HER2- patients

Variable*	All Patients (ER+)		ER+/HER2-	
	Hazard Ratio (95% CI)	P value	Hazard Ratio (95% CI)	P value
STOCKHOLM TAM	N=317 (33 DR)		N=295 (29 DR)	
<i>Univariate analysis</i>				
Age at surgery	0.65 (0.34-1.25)	0.19	0.56 (0.28-1.12)	0.10
Tumor size	1.58 (0.68-3.67)	0.29	1.80 (0.73-4.46)	0.21
Tumor grade	3.73 (0.89-15.63)	0.07	3.41 (0.81-14.38)	0.10
PR status	0.60 (0.29-1.26)	0.18	0.56 (0.25-1.25)	0.16
HER2 status	1.80 (0.63-5.14)	0.27	NA	NA
BCI	5.44 (2.13-13.88)	0.0004	7.41 (2.61-21.08)	0.0002
<i>Multivariate analysis</i>				
Age at surgery	NA	NA	0.62 (0.33-1.17)	0.14
BCI	5.44 (2.13-13.88)	0.0004	7.03 (2.50-19.72)	0.0002
MULTI-INSTITUTIONAL	N=358 (57 DR)		N=316 (48 DR)	
<i>Univariate analysis</i>				
Age at surgery	1.18 (0.92-1.50)	0.19	1.29 (0.99-1.69)	0.05
Tumor size	2.29 (1.36-3.85)	0.002	2.10 (1.19-3.70)	0.01
Tumor grade	5.87 (1.84-18.78)	0.002	5.23 (1.63-16.83)	0.006
HER2 status	1.55 (0.76-3.16)	0.23	NA	NA
Chemo	0.95 (0.55-1.65)	0.86	1.06 (0.57-1.95)	0.86
BCI	10.08 (4.86-20.94)	<0.0001	12.40 (5.52-27.84)	<0.0001
<i>Multivariate analysis</i>				
Tumor size	1.50 (0.88-2.55)	0.13	1.59 (0.87-2.90)	0.13
Tumor grade	4.17 (1.30-13.39)	0.02	3.44 (1.04-11.34)	0.04
Chemo	NA	NA	1.61 (0.85-3.04)	0.14
BCI	8.63 (3.97-18.74)	<0.0001	10.28 (4.50-23.47)	<0.0001

*Age was by 10 years increment; tumor size was greater than 2 cm versus 2 cm or less; tumor grade was moderate/poorly differentiated versus well differentiated; PR and HER2 status was positive versus negative; chemo was no versus yes; BCI was continuous variable with 5 units increment (chosen to dichotomize BCI to facilitate the comparison of hazard ratios with clinical covariates). AIC, Akaike's Information Criterion; DR, distant recurrence.