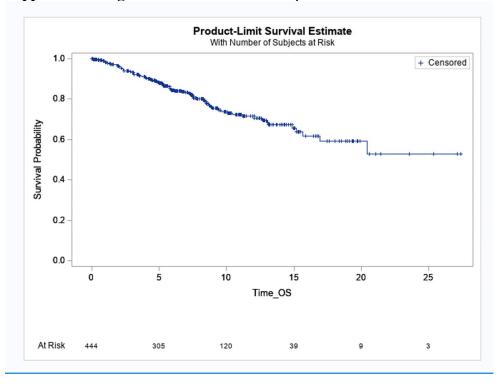
Supplemental Figure 1. Overall survival of patients with an invasive recurrence after DCIS



Supplemental Table 1. Comparison of invasive recurrence characteristics between patients who did and did not receive endocrine therapy

	Endocrine* therapy (n = 85)	No endocrine therapy (n = 338)	p-value**
ER status	·		
Positive	15 (19%)	59 (18%)	0.9
Negative	65 (81%)	271 (82%)	
Unknown**	5	8	
Histology			
Ductal	67 (91%)	247 (84%)	0.5
Lobular	4 (5%)	24 (8%)	
Other	3 (4%)	22 (8%)	
Unknown**	11	45	
Nuclear grade			
High	34 (46%)	121 (46%)	0.5
Intermediate	38 (51%)	127 (48%)	
Low	2 (3%)	17 (6%)	
Unknown**	11	73	

^{*}Missing data on receipt of endocrine therapy for 29 (6%) of patients **Unknown categories are not considered in p-value calculation

Supplemental Table 2. Patterns of invasive recurrence after treatment of DCIS among patients treated with BCS and radiation vs. mastectomy

*Missing data for date of diagnosis of distant recurrence in BCS + radiation group

	BCS + radiation (n = 201)	Mastectomy (n = 85)	p-value
Presentation of invasive recurrence			< 0.001
Isolated local	181 (90%)	10 (12%)	
Local and regional	1 (<1%)	5 (6%)	
Local and distant	8 (4%)	0 (0%)	
Local, regional and distant	2 (1%)	1 (1%)	
Isolated regional	1 (<1%)	48 (56%)	
Regional and distant	4 (2%)	11 (13%)	
Isolated distant	4 (2%)	10 (12%)	
Median crude time to invasive			
recurrence, years			
All recurrences	6.3	5.5	0.24
Any local	7.0	7.4	0.63
Any regional	5.9	5.3	0.05
Any distant*	-	5.9	n/a

Supplemental Table 3. Comparison of pathologic T stage and nuclear grade of the invasive recurrence between patients originally treated with mastectomy with and without DCIS noted in the recurrence specimen

^{**}Unknown categories are not considered in p-value calculation

	DCIS in recurrence specimen* (n = 19)	No DCIS in recurrence specimen (n = 66)	p-value**
Pathologic T stage	(H = 19)	(n – 00)	0.3
T1	6 (35%)	7 (16%)	
T2	0(0)	2 (4.7%)	
T3	0(0)	0(0)	
T4	10 (59%)	25 (58%)	
Tx	1 (5.9%)	9 (21%)	
Unknown**	2	23	
Nuclear grade			
High	11 (69%)	18 (72%)	0.8
Intermediate	5 (31%)	6 (24%)	
Low	0(0)	1 (4%)	
Unknown**	3	41	

^{*}Missing data on DCIS in recurrence for 108 (24%) of patients