

Table S1. Patient table cohort 2

Patient ID	Sample	Elston Grade	Tum size (mm)	ER	PR	HER2	NeoAdj	AdjCT	AdjHT	AdjRT	Relapse site	Time to Relapse*	Relapse to death**
1	Primary Tumor	3	21	-	-	-	-	+	-	+			
	Metastasis 1			-	-	NA					lung	19	
	Metastasis 2			-	-	NA					liver	49	35
2	Primary Tumor	3	20	-	-	NA	-	-	-	-			
	Lymph node										lymph		
3	Primary Tumor	3	55	-	-	+	CT	+	-	+			
	Lymph node										lymph		
4	Primary Tumor	3	20	-	-	NA	-	-	-	-			
	Metastasis 2			NA	NA	NA				uterus	74		
	Metastasis 3			-	-	NA				brain	93		
	Metastasis 4			+	-	NA				colon	97	60	
5	Primary Tumor	3	25	+	-	NA	HT	-	+	+			
	Metastasis 1			-	-	NA				bone	31		
	Metastasis 2			NA	NA	NA				bone	49	28	
6	Primary Tumor	2	20	+	+	+	-	+	+	+			48
7	(Primary Tumor)	3		NA	NA	-	-	+	+	+			
	Local relapse			+	-	+				chest wall	54		
	Metastasis 1			+	-	+				skin	64	29	
8	Primary Tumor	3	45	-	-	-	-	+	+	+			
	Lymph node												
	Local rel			+	-	+				skin local relapse	49		
9	Primary Tumor	3	18	+	-	+	-	+	+	+			
	Metastasis 1			-	-	-				brain	26	23	
10	Primary Tumor	3	45	-	-	+	-	+	-	+			
	Lymph node									lymph			
	Metastasis 2			-	-	NA				skin	54	60	
11	Primary Tumor	3	35	-	+	NA	-	+	+	+			
	Metastasis 1			-	-	NA				brain	24	10	
12	Primary Tumor	3	55	-	-	NA	-	-	-	-			
	Local relapse			-	-	NA				axillary lymph	19		
	Metastasis 1									bone	39	41	
13	(Primary Tumor)	3		NA	NA	NA	-	NA	NA	+			
	Local relapse			+	+	NA				breast	84		
	Local relapse									lymph	120	79	
	Metastasis 1			NA	NA	NA				bone	156		
14	Primary Tumor	3	30	+	+	+	-	+	+	+			
	Lymph node									lymph			
	Metastasis 1			NA	NA	NA				cerebellum	26	83	
15	Primary Tumor	NA	10	+	NA	NA	-	+	+	+			
	Lymph node									lymph			
	Metastasis 1			NA	NA	NA				liver	116	26	
16	(Primary Tumor)	3	35	-	-	+	-	+	-	-			
	Local relapse			-	-	+				breast	12		
	Metastasis 1			NA	NA	NA				skin	16	27	
17	Primary Tumor	3	18	+	+	NA	-	-	+	+			
	Lymph node									lymph			
	Metastasis 1			-	-	NA				brain	75	5	
18	Primary Tumor	2	20	+	+	-	-	+	+	+			
	Lymph node									lymph			
	Metastasis 2			+	+	+				skin	87	47	
19	Primary Tumor	2	20	+	+	NA	CT	+	+	+			
	Metastasis 3			-	-	+				brain	73		
	Metastasis 5			NA	NA	NA				brain	88	79	
20	Primary Tumor	2	20	-	+	+	CT	-	+	-			
	Metastasis 2	2		+	+	+					ovary	262	