

Sister Study First DCIS or Invasive Breast Cancer Events¹ and Characteristics: Data Release 7.0²

Characteristic	Non-Hispanic White		Black (includes Hispanic Black)		Non-Black Hispanic/Other	
	N (total = 2,913) ³	%	N (total = 271) ³	%	N (total = 214) ³	%
Breast Cancer Subtype for 1st DCIS or Invasive Diagnosis						
Invasive ⁴	2,281	78.3	198	73.1	171	79.9
Ductal only (no lobular component) ⁵	1,639	56.3	129	47.6	121	56.5
Lobular only (no ductal component) ⁵	213	7.3	9	3.3	11	5.1
Ductal and lobular ^{5,6}	159	5.5	7	2.6	11	5.1
Inflammatory	5	0.2	1	0.4	0	0.0
Paget's	8	0.3	2	0.7	0	0.0
Phyllodes ⁷	5	0.2	0	0.0	0	0.0
Other/unknown if ductal or lobular ⁸	252	8.7	50	18.5	28	13.1
<i>In situ</i>	627	21.5	73	26.9	43	20.1
Ductal only (no lobular component) ⁹	606	20.8	71	26.2	42	19.6
Ductal and lobular ⁹	16	0.5	0	0.0	0	0.0
Paget's	5	0.2	0	0.0	0	0.0
Other ¹⁰	0	0.0	2	0.7	0	0.0
Invasiveness unknown ¹⁰	5	0.2	0	0.0	1	0.5
Stage at 1st DCIS or Invasive Diagnosis						
0	575	21.8	61	28.2	38	20.7
I	1369	51.8	88	40.7	90	48.9
II	521	19.7	52	24.1	37	20.1
III	132	5.0	13	6.0	16	8.7
IV	19	0.7	1	0.5	1	0.5
<i>Unknown, missing, cannot stage</i>	272		55		30	
Estrogen Receptor (ER) Status: 1st DCIS or Invasive Breast Cancer						
Positive	2,201	85.4	157	77.3	142	81.6
Negative	372	14.4	44	21.7	32	18.4
Borderline	3	0.1	2	1.0	0	0.0
<i>Unknown, missing, not performed</i>	337		68		40	
Progesterone Receptor (PR) Status: 1st DCIS or Invasive Breast Cancer						
Positive	1,830	73.4	118	60.2	112	66.3
Negative	656	26.3	77	39.3	57	33.7
Borderline	6	0.2	1	0.5	0	0.0
<i>Unknown, missing, not performed</i>	421		75		45	
HER2 Amplification Status: 1st DCIS or Invasive Breast Cancer						
Positive	265	12.4	23	14.6	27	17.9
Negative	1,832	85.9	134	84.8	123	81.5
Borderline	35	1.6	1	0.6	1	0.7
<i>Unknown, missing, not performed</i>	781		113		63	

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	N (total = 2,913) ³	%	N (total = 271) ³	%	N (total = 214) ³	%
Combined ER, PR, HER2 Status: 1st DCIS or Invasive Breast Cancer						
Triple negative (ER-, Pr-, and HER2-)	197	7.9	32	16.1	18	10.7
Not triple negative	2,301	92.1	167	83.9	150	89.3
<i>Unknown, missing, not performed</i>	415		72		46	
Age (in years) at 1st DCIS or Invasive Breast Cancer ¹²						
Under 50	311	10.7	46	17.0	34	15.9
50-64	1,377	47.3	135	49.8	118	55.1
65 and older	1,225	42.1	90	33.2	62	29.0
Menopausal Status at 1st DCIS or Invasive Breast Cancer						
Pre-menopausal	488	16.8	55	20.4	51	23.8
Post-menopausal	2,417	83.2	214	79.6	163	76.2
<i>Unknown</i>	8		2		0	

Abbreviations: DCIS=Ductal carcinoma in situ; LCIS = Lobular carcinoma in situ; BrCa= Breast cancer; MR = Medical report (medical record and/or pathology report)

¹ Breast cancer events (1st DCIS or invasive) are defined by the following ICD10 codes: D05.1 (ductal carcinoma in situ), C50 (all invasive breast cancer), and ductal D48.6 (neoplasm of uncertain behavior of breast)

² Data release 7.0 includes events from follow-up phases that closed on or before 9/15/2017, excluding any data from participants who have withdrawn their data from the study (n=2). To be considered a breast cancer event, breast must be the primary site, and the cancer diagnosis must have occurred after the participant's baseline date. Consequently, Data Release 7.0 breast cancer events for 1st DCIS or invasive diagnosis exclude a) through c) below:

- a) Breast cancers diagnosed prior to participant's baseline date;
- b) Breast cancers diagnosed with unknown timing relative to baseline;
- c) Unknown primary cancer diagnoses where breast was unlikely to be the primary site, but the possibility could not be ruled out

³ Confirmed by medical report (medical record or pathology report)

⁴ Includes 'presumed invasive' (i.e. a carcinoma in situ with positive nodes)

⁵ Ductal only, Lobular only, and Ductal and Lobular exclude inflammatory breast cancer and Paget's

⁶ Includes BrCa events with a) tumors with mixed ductal and lobular characteristics and/or b) multiple tumors of different histology (e.g. a ductal only tumor and a lobular only tumor)

⁷ Phyllodes is neither ductal nor lobular; it is a sarcoma

⁸ Includes: a) Invasive but unknown if ductal or lobular; and b) Invasive type "neither ductal nor lobular, not otherwise specified"; these are typically self-report without MR confirmation

⁹ In situ Ductal only and in situ Ductal and Lobular exclude in situ Paget's

¹⁰ Excludes all with lobular-only origin

¹¹ Invasiveness unknown includes: a) Unknown if DCIS or invasive ductal; and b) Per MR, unable to determine if DCIS or atypical ductal hyperplasia

¹² For those missing age at diagnosis, age was imputed as the midpoint of the range of plausible ages at diagnosis