

Sister Study First DCIS or Invasive Breast Cancer Events ¹ Stratified by Race/Ethnicity ²: Data Release 8.1 ³

Characteristic	Non-Hispanic White		Black (includes Hispanic Black)		Non-Black Hispanic/Other	
	N (total = 3,149)	%	N (total = 297)	%	N (total = 234)	%
Breast Cancer Subtype for 1st DCIS or Invasive Diagnosis						
Invasive ⁴	2,471	78.5	219	73.7	188	80.3
Ductal only (no lobular component) ⁵	1,746	55.4	143	48.1	128	54.7
Lobular only (no ductal component) ⁵	232	7.4	8	2.7	12	5.1
Ductal and lobular ^{5,6}	169	5.4	8	2.7	11	4.7
Inflammatory	5	0.2	1	0.3	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	306	9.7	57	19.2	37	15.8
<i>In situ</i>	670	21.3	78	26.3	44	18.8
Ductal only (no lobular component) ⁹	647	20.5	76	25.6	44	18.8
Ductal and lobular ⁹	17	0.5	0	0.0	0	0.0
Paget's	5	0.2	0	0.0	0	0.0
Other ¹⁰	1	0.0	2	0.7	0	0.0
Invasiveness unknown ¹¹	8	0.3	0	0.0	2	0.9
Stage at 1st DCIS or Invasive Diagnosis ¹²						
0	622	22.0	64	27.5	41	21.2
I	1,477	52.3	99	42.5	97	50.3
II	566	20.0	55	23.6	38	19.7
III	140	5.0	14	6.0	16	8.3
IV	19	0.7	1	0.4	1	0.5
<i>Unknown, missing, cannot stage</i>	325		64		41	
Estrogen Receptor (ER) Status: 1st DCIS or Invasive Breast Cancer ¹²						
Positive	2,350	85.5	171	77.0	149	82.3
Negative	395	14.4	49	22.1	32	17.7
Borderline	3	0.1	2	0.9	0	0.0
<i>Unknown, missing, not performed</i>	401		75		53	
Progesterone Receptor (PR) Status: 1st DCIS or Invasive Breast Cancer ¹²						
Positive	1,958	73.4	128	60.4	120	67.4
Negative	702	26.3	83	39.2	58	32.6
Borderline	6	0.2	1	0.5	0	0.0
<i>Unknown, missing, not performed</i>	483		85		56	
HER2 Amplification Status: 1st DCIS or Invasive Breast Cancer ¹²						
Positive	285	12.5	27	15.8	27	17.0
Negative	1,964	86.0	143	83.6	131	82.4
Borderline	35	1.5	1	0.6	1	0.6
<i>Unknown, missing, not performed</i>	865		126		75	

Characteristic	Non-Hispanic White		Black (includes Hispanic Black)		Non-Black Hispanic/Other	
	N (total = 3,149)	%	N (total = 297)	%	N (total = 234)	%
Combined ER, PR, HER2 Status: 1st DCIS or Invasive Breast Cancer ¹²						
Triple negative (ER-, Pr-, and HER2-)	213	8.0	34	15.7	18	10.3
Not triple negative	2,454	92.0	183	84.3	157	89.7
<i>Unknown, missing, not performed</i>	482		80		59	
Diagnosis Confirmation ¹³						
Medical	2,611	82.9	208	70.0	177	75.6
NDI Plus or death certificate	27	0.9	11	3.7	1	0.4
None	511	16.2	78	26.3	56	23.9
Age (in years) at 1st DCIS or Invasive Breast Cancer ¹⁴						
Under 50	316	10.0	48	16.2	34	14.5
50-64	1,455	46.2	144	48.5	130	55.6
65 and older	1,378	43.8	105	35.4	70	29.9
Menopausal Status at 1st DCIS or Invasive Breast Cancer						
Pre-menopausal	495	15.8	58	19.6	51	21.8
Post-menopausal	2,639	84.2	238	80.4	183	78.2
<i>Unknown</i>	15		1		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 Excludes n=1 where race/ethnicity is missing

³ Data release 8.1 includes events from follow-up phases that closed on or before 9/23/2018, excluding any data from participants who have withdrawn their data from the study (n=3). 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 8.1 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

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, these are typically self-report without MR confirmation; b) Invasive type "neither ductal nor lobular, not otherwise specified", these are typically self-report without MR confirmation; and c) Per MR, presumed invasive - in situ tumor, positive nodes;

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 Priority for stage and ER/PR/HER2 status when diagnosis is reported by multiple sources: Medical record>Breast Cancer Follow-Up Form

¹³ Medical confirmation of reported breast cancer is generally from medical records but may only include pathology report; National Death Index (NDI) Plus or death certificate confirmation is specific to cases that do not have medical confirmation

¹⁴ For those missing age at diagnosis, age was imputed as the midpoint of the range of plausible ages at diagnosis

