

Sister Study Breast Cancer Events (any type) <sup>1</sup> Stratified by Race/Ethnicity <sup>2</sup>: Data Release 10.1<sup>3</sup>

Characteristic	Non-Hispanic White		Black (includes Hispanic Black)		Non-Black Hispanic/Other	
	N (total = 3,785)	%	N (total = 372)	%	N (total = 269)	%
<b>Breast Cancer Subtype for 1st Diagnosis</b>						
Invasive <sup>4</sup>	2,890	76.4	270	72.6	211	78.4
Ductal only (no lobular component) <sup>5</sup>	2,025	53.5	168	45.2	154	57.2
Lobular only (no ductal component) <sup>5</sup>	269	7.1	13	3.5	14	5.2
Ductal and lobular <sup>5,6</sup>	200	5.3	9	2.4	14	5.2
Inflammatory	6	0.2	2	0.5	0	0.0
Paget's	10	0.3	2	0.5	0	0.0
Phyllodes <sup>7</sup>	5	0.1	0	0.0	0	0.0
Other/unknown if ductal or lobular <sup>8</sup>	375	9.9	76	20.4	29	10.8
<i>In situ</i>	863	22.8	99	26.6	53	19.7
Ductal only (no lobular component) <sup>9</sup>	726	19.2	89	23.9	43	16.0
Lobular only (no ductal component) <sup>9</sup>	110	2.9	6	1.6	8	3.0
Ductal and lobular <sup>6,9</sup>	16	0.4	0	0.0	0	0.0
Paget's	5	0.1	0	0.0	0	0.0
Other/unknown if ductal or lobular <sup>10</sup>	6	0.2	4	1.1	2	0.7
Invasiveness unknown <sup>11</sup>	32	0.8	3	0.8	5	1.9
<b>Stage at 1st Breast Cancer Diagnosis <sup>12</sup></b>						
0	791	23.5	78	28.1	49	20.9
I	1,746	51.9	117	42.1	117	50.0
II	647	19.2	65	23.4	46	19.7
III	160	4.8	18	6.5	20	8.5
IV	20	0.6	0	0.0	2	0.9
<i>Unknown, missing, cannot stage</i>	421		94		35	
<b>Estrogen Receptor (ER) Status for 1st Breast Cancer Diagnosis <sup>12</sup></b>						
Positive	2,755	85.6	197	74.9	180	83.7
Negative	458	14.2	64	24.3	35	16.3
Borderline	5	0.2	2	0.8	0	0.0
<i>Unknown, missing, not performed</i>	567		109		54	
<b>Progesterone Receptor (PR) Status for 1st Breast Cancer Diagnosis <sup>12</sup></b>						
Positive	2,303	74.0	150	59.1	146	69.5
Negative	805	25.9	103	40.6	64	30.5
Borderline	6	0.2	1	0.4	0	0.0
<i>Unknown, missing, not performed</i>	671		118		59	

Characteristic	Non-Hispanic White		Black (includes Hispanic Black)		Non-Black Hispanic/Other	
	N (total = 3,785)	%	N (total = 372)	%	N (total = 269)	%
<b>HER2 Amplification Status for 1st Breast Cancer Diagnosis <sup>12</sup></b>						
Positive	329	12.3	33	16.0	35	18.3
Negative	2,308	86.3	172	83.5	154	80.6
Borderline	38	1.4	1	0.5	2	1.0
<i>Unknown, missing, not performed</i>	<i>1,110</i>		<i>166</i>		<i>78</i>	
<b>Combined ER, PR, HER2 Status <sup>12</sup></b>						
Triple negative (ER-, PR-, and HER2-)	243	7.8	43	16.9	18	8.6
Not triple negative	2,876	92.2	211	83.1	191	91.4
<i>Unknown, missing, not performed</i>	<i>666</i>		<i>118</i>		<i>60</i>	
<b>Diagnosis Confirmation <sup>13</sup></b>						
Medical	3,170	83.8	248	66.7	216	80.3
NDI Plus or death certificate	31	0.8	12	3.2	2	0.7
None	584	15.4	112	30.1	51	19.0
<b>Age (in years) at 1st Breast Cancer Diagnosis <sup>14</sup></b>						
Under 50	339	9.0	50	13.4	35	13.0
50-64	1,660	43.9	179	48.1	154	57.2
65 and older	1,786	47.2	143	38.4	80	29.7
<b>Menopausal Status at 1st Breast Cancer Diagnosis</b>						
Pre-menopausal	565	14.9	64	17.2	57	21.2
Post-menopausal	3,219	85.1	308	82.8	212	78.8
<i>Unknown</i>	<i>1</i>		<i>0</i>		<i>0</i>	

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

<sup>1</sup> Breast cancer events (any type) are defined by the following ICD10 codes: D05 (includes lobular carcinoma *in situ*, ductal carcinoma *in situ*, other and unspecified *in situ* breast carcinomas), C50 (all invasive breast cancer), and D48.6 (neoplasm of uncertain behavior of breast)

<sup>2</sup> Excludes n=1 where race/ethnicity is missing

<sup>3</sup> Data release 10.1 includes events from follow-up phases that closed on or before 10/12/2020, excluding all data from participants who have withdrawn their data from the study (n=4). 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 10.1 breast cancer events (any type) 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

<sup>4</sup> Includes 'presumed invasive' (i.e. a carcinoma *in situ* with positive nodes)

<sup>5</sup> Ductal only, Lobular only, and Ductal and Lobular exclude inflammatory breast cancer and Paget's

<sup>6</sup> 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)

- <sup>7</sup> Phyllodes is neither ductal nor lobular; it is a sarcoma
- <sup>8</sup> 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
- <sup>9</sup> *In situ* Ductal only, *in situ* Lobular only, and *in situ* Ductal and Lobular exclude *in situ* Paget’s
- <sup>10</sup> Includes: a) In situ but unknown if ductal or lobular; b) In situ type “neither ductal nor lobular, not otherwise specified”; these are typically self-report without MR confirmation
- <sup>11</sup> Invasiveness unknown includes: a) Unknown if invasive or in situ and unknown if ductal or lobular; b) Ductal but unknown if invasive or in situ ; c) Lobular but unknown if invasive or in situ ; d) Neither ductal nor lobular (other) but not otherwise specified and unknown if invasive or in situ; e) Per MR, unable to determine if DCIS or atypical ductal hyperplasia
- <sup>12</sup> Priority for stage and ER/PR/HER2 status when diagnosis is reported by multiple sources: Medical record>Breast Cancer Follow-Up Form
- <sup>13</sup> 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
- <sup>14</sup> For those missing age at diagnosis, age was imputed as the midpoint of the range of plausible ages at diagnosis