

Sister Study First DCIS or Invasive Breast Cancer<sup>1</sup> Events and Characteristics: Data Release 7.0<sup>2</sup>

Characteristic	N (total =3,399) <sup>3</sup>	%
<b>Breast Cancer Subtype for 1st DCIS or Invasive Diagnosis</b>		
Invasive <sup>4</sup>	2651	78.0
Ductal only (no lobular component) <sup>5</sup>	1,890	55.6
Lobular only (no ductal component) <sup>5</sup>	233	6.9
Ductal and lobular <sup>5,6</sup>	177	5.2
Inflammatory <sup>7</sup>	6	0.2
Paget's <sup>8</sup>	10	0.3
Phyllodes <sup>9</sup>	5	0.1
Other/unknown if ductal or lobular <sup>10</sup>	330	9.7
<i>In situ</i>	742	21.8
Ductal only (no lobular component) <sup>11</sup>	719	21.2
Ductal and lobular <sup>11</sup>	16	0.5
Paget's <sup>8</sup>	5	0.1
Other <sup>12</sup>	2	0.1
Invasiveness unknown <sup>13</sup>	6	0.2
<b>Stage at 1st DCIS or Invasive Diagnosis</b>		
0	674	22.4
I	1548	51.4
II	610	20.2
III	161	5.3
IV	21	0.7
<i>Unknown, missing, cannot stage</i>	385	
<b>Estrogen Receptor (ER) Status: 1st DCIS or Invasive Breast Cancer</b>		
Positive	2,501	84.7
Negative	448	15.2
Borderline	5	0.2
<i>Unknown, missing, not performed</i>	445	
<b>Progesterone Receptor (PR) Status: 1st DCIS or Invasive Breast Cancer</b>		
Positive	2061	72.1
Negative	790	27.6
Borderline	7	0.2
<i>Unknown, missing, not performed</i>	541	
<b>HER2 Amplification Status: 1st DCIS or Invasive Breast Cancer</b>		
Positive	315	12.9
Negative	2090	85.6
Borderline	37	1.5
<i>Unknown, missing, not performed</i>	957	
<b>Combined ER, PR, HER2 Status: 1st DCIS or Invasive Breast Cancer</b>		
Triple negative	247	8.6
Not triple negative	2619	91.4
<i>Unknown, missing, not performed</i>	533	

Characteristic	N (total =3,399) <sup>3</sup>	%
<b>Race/Ethnicity</b> <sup>14</sup>		
Non-Hispanic White	2913	85.7
Non-Hispanic Black	262	7.7
Hispanic	128	3.8
Other	95	2.8
<i>Missing</i>	1	
<b>Age (in years) at 1st DCIS or Invasive Breast Cancer</b> <sup>15</sup>		
Under 50	391	11.5
50-64	1630	48.0
65 and older	1378	40.5
<b>Menopausal Status at 1st DCIS or Invasive Breast Cancer</b>		
Pre-menopausal	594	17.5
Post-menopausal	2795	82.5
<i>Unknown</i>	10	

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

<sup>1</sup> 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)

<sup>2</sup> 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 1<sup>st</sup> DCIS or invasive diagnosis exclude a) through c) below:

a) Breast cancers diagnosed prior to participant's baseline date. [Total (n=57): Invasive ductal (n=32); invasive lobular (n=1), invasive ductal and lobular (n=1), invasive, unknown if ductal or lobular (n=4), and DCIS (n=19)];

b) Breast cancers diagnosed with unknown timing relative to baseline [Total (n=3): Invasive, unknown if ductal or lobular (n=1), and DCIS (n=2)]; and

c) Unknown primary cancer diagnoses where breast was unlikely to be the primary site, but the possibility could not be ruled out (n=3)

<sup>3</sup> Confirmed by medical report (medical record or pathology report): 82.3% (n=2831) of reported breast cancer

<sup>4</sup> Includes 'presumed invasive' (i.e. a carcinoma *in situ* with positive nodes)(n=1)

<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> Inflammatory – Ductal (n=5), Ductal and Lobular (n=1), Lobular(n=0)

<sup>8</sup> Paget's - Invasive: Ductal (n=9), Lobular (n=1); *in situ*: Ductal (n=5)

<sup>9</sup> Phyllodes is neither ductal nor lobular; it is a sarcoma

<sup>10</sup> Includes: a) Invasive but unknown if ductal or lobular (n=325); and b) Invasive type "neither ductal nor lobular, not otherwise specified" (n=4); and c) Presumed invasive - *in situ* tumor, positive nodes (n=1); these are typically self-report without MR confirmation

<sup>11</sup> *in situ* Ductal only and *in situ* Ductal and Lobular exclude *in situ* Paget's

<sup>12</sup> Excludes all with lobular-only origin

<sup>13</sup> Invasiveness unknown includes: a) Unknown if DCIS or invasive ductal (n=4); and b) Per MR, unable to determine if DCIS or atypical ductal hyperplasia (n=2)

<sup>14</sup> Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then Other race, then White

<sup>15</sup> For those missing age at diagnosis (n=19), age was imputed as the midpoint of the range of plausible ages at diagnosis