	N	% of cohort
Total Cases	4,628	9.1
Breast Cancer Subtype for 1st DCIS or Invasive Diagnosis	N	% of cases
Invasive ³	3,670	79.3
Ductal only (no lobular component) ⁴	2,526	54.6
Lobular only (no ductal component) ⁴	311	6.7
Ductal and lobular 4,5	239	5.2
Inflammatory ⁶	10	0.2
Paget's ⁷	13	0.3
Phyllodes ⁸	5	0.1
Other/unknown if ductal or lobular ⁹	566	12.2
In situ	952	20.6
Ductal only (no lobular component) 10	925	20.0
Ductal and lobular 5,10	15	0.3
Paget's ⁷	6	0.1
Other/unknown if ductal or lobular 11	6	0.1
Invasiveness unknown 12	6	0.1
Stage at 1 st DCIS or Invasive Diagnosis ¹³	-	
0	871	21.6
I	2,115	52.4
II	812	20.1
III	210	5.2
IV	26	0.6
Unknown, missing, cannot stage	594	
Estrogen Receptor (ER) Status: 1st DCIS or Invasive Breast Cancer 13		
Positive	3,329	85.0
Negative	582	14.9
Borderline	5	0.1
Unknown, missing, not performed	712	
Progesterone Receptor (PR) Status: 1st DCIS or Invasive Breast Cancer 13	3	
Positive	2,779	73.0
Negative	1,021	26.8
Borderline	8	0.2
Unknown, missing, not performed	820	
HER2 Amplification Status: 1st DCIS or Invasive Breast Cancer 13		
Positive	407	12.4
Negative	2,829	86.3
Borderline	44	1.3
Unknown, missing, not performed	1,348	
Combined ER, PR, HER2 Status: 1st DCIS or Invasive Breast Cancer 13		
Triple negative (ER-, PR-, and HER2-)	322	8.5
Not triple negative	3,480	91.5
Unknown, missing, not performed	826	

Characteristic	N (total = 4,628)	% of cases
Diagnosis Confirmation 14		
Medical	3,811	82.3
NDI Plus or death certificate only	59	1.3
None	758	16.4
Race/Ethnicity 15		
Non-Hispanic White	3,961	85.6
Non-Hispanic Black	373	8.1
Hispanic	174	3.8
Other	119	2.6
Missing	1	
Age (in years) at 1st DCIS or Invasive Breast Cancer 16		
Under 50	410	8.9
50-64	1,993	43.1
65 and older	2,225	48.1
Menopausal Status at 1st DCIS or Invasive Breast Cancer		
Pre-menopausal	661	14.3
Post-menopausal	3,966	85.7
Unknown	1	

Abbreviations: BrCa= Breast cancer; DCIS=Ductal carcinoma *in situ*; MR = Medical report (medical record and/or pathologyreport) 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 D48.6 (neoplasm of uncertain behavior of breast)

- a) Breast cancers diagnosed prior to participant's baseline date. [Total (n=61): Invasive ductal (n=32), invasive lobular (n=1), invasive ductal and lobular (n=1), invasive, unknown if ductal or lobular (n=6), and DCIS (n=21)];
- b) Breast cancers diagnosed with unknown timing relative to baseline [Total (n=13): Invasive, unknown if ductal or lobular (n=7) and DCIS (n=6);
- c) Unknown primary cancer diagnoses where breast was unlikely to be the primary site, but the possibility could not be ruled out (n=5)

² Data release 11.0 includes events from follow-up phases that closed **on or before 9/30/2021**, excluding all data from participants who have withdrawn their data from the study (n=5). 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 11.0 breast cancer events for 1st DCIS or invasive diagnosis exclude a) through c) below:

³ Includes 'presumed invasive' (i.e., a carcinoma in situ with positive nodes) (n=1)

⁴ Ductal only, Lobular only, and Ductal and Lobular exclude inflammatory breast cancer and Paget's

⁵ 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)

⁶ Inflammatory – Ductal (n=9), Ductal and Lobular (n=1)

⁷ Paget's - Invasive: Ductal (n=12), Lobular (n=1); in situ: Ductal (n=6)

⁸ Phyllodes is neither ductal nor lobular; it is a sarcoma

⁹ Includes: a) Invasive but unknown if ductal or lobular (n=561), these are typically self-report without MR confirmation; b) Invasive type "neither ductal nor lobular, not otherwise specified" (n=4), these are typically self-report without MR confirmation; and c) Per MR, presumed invasive - *in situ* tumor, positive nodes (n=1)

¹⁰ in situ Ductal only and in situ Ductal and Lobular exclude in situ Paget's

¹¹ Excludes all known lobular-only origin but includes *in situ* diagnoses where unknown if ductal or lobular (n=5), these are typically self-report without MR confirmation

¹² 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)

¹³ Priority for stage and ER/PR/HER2 status when diagnosis is reported by multiple sources: Medical record>Breast Cancer Follow-Up Form

¹⁴ 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

¹⁵ Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then Other race, then White

¹⁶ For those missing age at diagnosis (n=35), age was imputed as the midpoint of the range of plausible ages at diagnosis