	N	% of cohort
Total Cases	4,150	8.2
Breast Cancer Subtype for 1st Diagnosis	N	% of cases
Invasive ³	3,108	74.9
Ductal only (no lobular component) ⁴	2,185	52.7
Lobular only (no ductal component) 4	270	6.5
Ductal and lobular ^{4,5}	211	5.1
Inflammatory ⁶	6	0.1
Paget's ⁷	10	0.2
Phyllodes ⁸	5	0.1
Other/unknown if ductal or lobular ⁹	421	10.1
In situ	993	23.9
Ductal only (no lobular component) 10	824	19.9
Lobular only (no ductal component) 10	126	3.0
Ductal and lobular 5,10	18	0.4
Paget's ⁷	5	0.1
Other/unknown if ductal or lobular 11	20	0.5
Invasiveness unknown 12	49	1.2
Stage at 1 st Breast Cancer Diagnosis ¹³		
0	887	24.1
I	1,874	50.9
II	713	19.4
III	182	4.9
IV	23	0.6
Unknown, missing, cannot stage	471	
Estrogen Receptor (ER) Status for 1st Breast Cancer Diagnosi	s ¹³	
Positive	2,924	84.7
Negative	523	15.1
Borderline	7	0.2
Unknown, missing, not performed	696	
Progesterone Receptor (PR) Status for 1st Breast Cancer Diag	gnosis ¹³	
Positive	2,409	72.5
Negative	906	27.3
Borderline	8	0.2
Unknown, missing, not performed	827	
HER2 Amplification Status for 1st Breast Cancer Diagnosis 13		
Positive	385	13.4
Negative	2,439	85.0
Borderline	44	1.5
Unknown, missing, not performed	1,282	
Combined ER, PR, HER2 Status ¹³		
Triple negative (ER-, PR-, and HER2-)	294	8.8
Not triple negative	3,065	91.2
Unknown, missing, not performed	791	

Characteristic	N (total = 4,150)	% of cases
Diagnosis Confirmation 14		
Medical	3,293	79.4
NDI Plus or death certificate only	45	1.1
None	812	19.6
Race/Ethnicity ¹⁵		
Non-Hispanic White	3,555	85.7
Non-Hispanic Black	328	7.9
Hispanic	156	3.8
Other	110	2.7
Missing	1	
Age (in years) at 1st Breast Cancer Diagnosis 16		
Under 50	422	10.2
50-64	1,904	45.9
65 and older	1,824	44.0
Menopausal Status at 1st Breast Cancer Diagnosis		
Pre-menopausal	663	16.0
Post-menopausal	3,469	84.0
Unknown	18	

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

- ¹ 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)
- ² Data release 9.0 includes events from follow-up phases that closed **on or before 9/30/2019**, excluding all data from participants who have withdrawn their data from the study (n=3).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 9.0 breast cancer events (any type) exclude a) through c) below:
 - a) Breast cancers diagnosed prior to participant's baseline date. [Total (n=113): Invasive ductal (n=31); invasive lobular (n=1), invasive ductal and lobular (n=1), invasive, unknown if ductal or lobular (n=5), DCIS (n=19), LCIS (n=54), in situ unknown if ductal or lobular (n=1), and invasiveness unknown (n=1)];
 - b) Breast cancers diagnosed with unknown timing relative to baseline [Total (n=33): Invasive, unknown if ductal or lobular (n=11), DCIS (n=10), LCIS (n=9), in situ ductal and lobular (n=1), in situ unknown if ductal or lobular (n=1), and invasiveness unknown (n=1)];
 - c) Unknown primary cancer diagnoses where breast was unlikely to be the primary site, but the possibility could not be ruled out (n=5)
- ³ Includes 'presumed invasive' (i.e. a carcinoma *in situ* with positive nodes) (n=2)
- $^4\,$ 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=5), Ductal and Lobular (n=1), Lobular (n=0)
- ⁷ Paget's Invasive: Ductal (n=9), Lobular (n=1); in situ: Ductal (n=5), Lobular (n=0)
- ⁸ Phyllodes is neither ductal nor lobular; it is a sarcoma
- ⁹ Includes: a) Invasive but unknown if ductal or lobular (n=415), 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=2)
- ¹⁰ In situ Ductal only, in situ Lobular only, and in situ Ductal and Lobular exclude Paget's
- ¹¹ Includes: a) *In situ* but unknown if ductal or lobular (n=18); b) *In situ* type "neither ductal nor lobular, not otherwise specified" (n=2); these are typically self-report without MR confirmation
- ¹² Invasiveness unknown includes: a) Unknown if invasive or *in situ* and unknown if ductal or lobular (n=27); b) Ductal but unknown if invasive or *in situ* (n=10); c) Lobular but unknown if invasive or *in situ* (n=1); d) Neither ductal nor lobular (other) but not otherwise specified and unknown if invasive or *in situ* (n=7); e) Both ductal and lobular but unknown if invasive or *in situ* (n=1); and f) Per MR, unable to determine if DCIS or atypical ductal hyperplasia (n=3)

- 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=29), age was imputed as the midpoint of the range of plausible ages at diagnosis