

National Breast Screening Programme

Screen detected breast cancers for the screening year April 2024 to March 2025
– Data tables

Data source

Data for the women diagnosed with screen-detected breast cancer in England with a date of first offered screening appointment between 1st April 2024 to 31st March 2025 was uploaded by individual screening services via the Breast Screening Information System (BSIS). The source of these data was the National Breast Screening System (NBSS). A series of data validation checks were automatically applied, and individual explanations were required before data could be successfully uploaded. On receipt of the national data, a comparison with the data held by the English cancer registry was undertaken to identify cases with a previous diagnosis of breast cancer. These cases were excluded for specified analyses from tables 4-83.

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SCREEN DETECTED BREAST CANCERS IN WOMEN ALL AGES FOR THE PERIOD 1 APRIL 2024 – 31 MARCH 2025

The 2023/24 totals have been provided for comparison purposes.

Table 1: Number and invasive status of screen-detected breast cancers and total women screened

Region	Invasive		Invasive (<15mm)		Micro-invasive		Non-invasive		Status unknown		Total		Total women screened	Micro/Non-invasive cancer rate	Invasive cancer rate	Invasive <15mm rate
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%				
East Midlands	1427	83	712	42	14	1	272	16	0	0	1713	100	203611	1.4	7.0	3.5
East of England	1653	80	781	38	13	1	387	19	1	0	2054	100	235551	1.7	7.0	3.3
London	1804	77	749	32	18	1	515	22	0	0	2337	100	277692	1.9	6.5	2.7
N East, Yorks & Humber	2503	81	1297	42	32	1	549	18	0	0	3084	100	348579	1.7	7.2	3.7
North West	1898	80	906	38	22	1	444	19	0	0	2364	100	262054	1.8	7.2	3.5
South East	2611	77	1230	36	23	1	736	22	2	0	3372	100	344117	2.2	7.6	3.6
South West	1950	80	994	41	19	1	477	20	0	0	2446	100	264829	1.9	7.4	3.8
West Midlands	1535	79	742	38	18	1	387	20	0	0	1940	100	210030	1.9	7.3	3.5
England	15381	80	7411	38	159	1	3767	20	3	0	19310	100	2146463	1.8	7.2	3.5
England 2023/24	13246	79	6218	37	159	1	3305	20	6	0	16716	100	1951326	1.8	6.8	3.2

Table 2: Breast cancer cases by age at first offered screening appointment

Region	<50		50-64		65-70		71-75		76+		Total	>70	
	No.	%	No.	%	No.	%	No.	%	No.	%		No.	%
East Midlands	9	1	1058	62	478	28	74	4	94	5	1713	168	10
East of England	16	1	1175	57	545	27	149	7	169	8	2054	318	15
London	0	0	1562	67	615	26	75	3	85	4	2337	160	7
N East, Yorks & Humber	34	1	1828	59	943	31	147	5	132	4	3084	279	9
North West	42	2	1443	61	677	29	103	4	99	4	2364	202	9
South East	23	1	2088	62	874	26	163	5	224	7	3372	387	11
South West	16	1	1523	62	670	27	119	5	118	5	2446	237	10
West Midlands	25	1	1194	62	556	29	80	4	85	4	1940	165	9
England	165	1	11871	61	5358	28	910	5	1006	5	19310	1916	10
England 2023/24	194	1	10436	62	4568	27	793	5	725	4	16716	1518	9

Region	Total cases	Total pt matched	% matched	Had previous cancers		No previous cancers	
				No.	%	No.	%
				East Midlands	1713	1708	100
East of England	2054	2023	98	134	7	1889	93
London	2337	2304	99	148	6	2156	94
NEYH	3084	3072	100	200	7	2872	93
North West	2364	2337	99	180	8	2157	92
South East	3372	3284	97	250	8	3034	92
South West	2446	2426	99	176	7	2250	93
West Midlands	1940	1923	99	123	6	1800	94
England	19310	19077	99	1334	7	17743	93
England 2023/24	16716	15279	91	1137	7	14142	93

Cases with previous breast cancers are excluded from Tables 4 to 83.

Region	Total cancers	C5 only		C5 & B5		B5 only		E5 only		B5 & E5		Positive axillary biopsy only		Pre-operative diagnosis		No Pre-operative diagnosis	
		No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
		East Midlands	1590	0	0	2	0	1518	95	39	2	9	1	1	0	1569	99
East of England	1916	1	0	2	0	1818	95	45	2	15	1	0	0	1881	98	35	2
London	2189	0	0	1	0	2093	96	58	3	20	1	0	0	2172	99	17	1
N East, Yorks & Humber	2882	0	0	6	0	2756	96	58	2	32	1	1	0	2853	99	29	1
North West	2183	0	0	10	0	2067	95	48	2	29	1	3	0	2157	99	26	1
South East	3120	0	0	2	0	2963	95	114	4	11	0	2	0	3092	99	28	1
South West	2269	0	0	1	0	2177	96	47	2	14	1	1	0	2240	99	29	1
West Midlands	1817	0	0	2	0	1723	95	49	3	9	0	1	0	1784	98	33	2
England	17966	1	0	26	0	17115	95	458	3	139	1	9	0	17748	99	218	1
England 2023/24	15582	2	0	11	0	14872	95	345	2	131	1	10	0	15371	99	211	1

Region	Total cancers	C5 only		C5 & B5		B5 only		E5 only		B5 & E5		Positive axillary biopsy only		Pre-operative diagnosis		No Pre-operative diagnosis	
		No	%	No	%	No	%	No	%	No	%	%	%	No	%	No	%
		East Midlands	1325	0	0	2	0	1296	98	12	1	6	0	1	0	1317	99
East of England	1535	1	0	0	0	1504	98	9	1	14	1	0	0	1528	100	7	0
London	1683	0	0	0	0	1650	98	14	1	16	1	0	0	1680	100	3	0
N East, Yorks & Humber	2333	0	0	6	0	2279	98	13	1	29	1	0	0	2327	100	6	0
North West	1747	0	0	10	1	1692	97	8	0	29	2	3	0	1742	100	5	0
South East	2405	0	0	2	0	2370	99	17	1	10	0	1	0	2400	100	5	0
South West	1804	0	0	1	0	1779	99	6	0	12	1	1	0	1799	100	5	0
West Midlands	1438	0	0	2	0	1411	98	10	1	7	0	0	0	1430	99	8	1
England	14270	1	0	23	0	13981	98	89	1	123	1	6	0	14223	100	47	0
England 2023/24	12327	1	0	9	0	12085	98	70	1	108	1	9	0	12282	100	45	0

Table 6: Pre-operative diagnosis rate (non-invasive cancers)

Region	Total cancers	C5 only		C5 & B5		B5 only		E5 only		B5 & E5		Positive axillary biopsy only		Pre-operative diagnosis		No Pre-operative diagnosis	
		No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
East Midlands	253	0	0	0	0	211	83	27	11	2	1	0	0	240	95	13	5
East of England	368	0	0	2	1	303	82	35	10	1	0	0	0	341	93	27	7
London	491	0	0	1	0	428	87	44	9	4	1	0	0	477	97	14	3
N East, Yorks & Humber	520	0	0	0	0	450	87	45	9	3	1	1	0	499	96	21	4
North West	415	0	0	0	0	355	86	40	10	0	0	0	0	395	95	20	5
South East	691	0	0	0	0	572	83	95	14	1	0	1	0	669	97	22	3
South West	446	0	0	0	0	381	85	40	9	2	0	0	0	423	95	23	5
West Midlands	362	0	0	0	0	297	82	38	10	2	1	1	0	338	93	24	7
England	3546	0	0	3	0	2997	85	364	10	15	0	3	0	3382	95	164	5
England 2023/24	3096	0	0	2	0	2637	85	269	9	23	1	1	0	2932	95	164	5

Table 7: B5a (Non-invasive) core biopsy: histological status of surgical specimen

Region	Invasive		Micro-invasive		Non-invasive		Benign		Unknown		Total with surgery	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	82	28	11	4	195	66	7	2	0	0	295	100
East of England	86	22	11	3	275	71	16	4	0	0	388	100
London	86	17	15	3	380	75	29	6	0	0	510	100
N East, Yorks & Humber	125	21	27	5	419	71	19	3	0	0	590	100
North West	82	18	20	4	322	72	21	5	0	0	445	100
South East	114	17	19	3	529	77	23	3	1	0	686	100
South West	80	17	17	4	350	74	23	5	0	0	470	100
West Midlands	63	17	15	4	277	75	12	3	0	0	367	100
England	718	19	135	4	2747	73	150	4	1	0	3751	100
England 2023/24	604	18	147	4	2431	73	126	4	3	0	3311	100

Table 8: B5b (Invasive) core biopsy: histological status of surgical specimen

Region	Invasive		Micro-invasive		Non-invasive		Benign		Unknown		Total with surgery	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	1142	97	1	0	4	0	27	2	0	0	1174	100
East of England	1318	96	1	0	21	2	23	2	4	0	1367	100
London	1401	94	4	0	21	1	70	5	1	0	1497	100
N East, Yorks & Humber	2040	97	0	0	19	1	33	2	1	0	2093	100
North West	1513	96	0	0	16	1	51	3	0	0	1580	100
South East	2087	95	4	0	42	2	53	2	2	0	2188	100
South West	1594	96	2	0	21	1	41	2	1	0	1659	100
West Midlands	1252	95	1	0	19	1	40	3	2	0	1314	100
England	12347	96	13	0	163	1	338	3	11	0	12872	100
England 2023/24	10670	96	8	0	139	1	255	2	15	0	11087	100

Region	1		2		3+		Total		Repeat (2+) visit	
	No	%	No	%	No	%	No	%	No	%
East Midlands	1259	79	272	17	59	4	1590	100	331	21
East of England	1664	87	223	12	29	2	1916	100	252	13
London	1850	85	283	13	56	3	2189	100	339	15
N East, Yorks & Humber	2503	87	337	12	42	1	2882	100	379	13
North West	1789	82	346	16	48	2	2183	100	394	18
South East	2602	83	427	14	91	3	3120	100	518	17
South West	1861	82	349	15	59	3	2269	100	408	18
West Midlands	1551	85	234	13	32	2	1817	100	266	15
England	15079	84	2471	14	416	2	17966	100	2887	16
England 2023/24	12979	83	2239	14	364	2	15582	100	2603	17

Region	1		2		3+		Total		First core/cyt/VAE at 2+ visit	
	No	%	No	%	No	%	No	%	No	%
East Midlands	1515	95	72	5	1	0	1588	100	73	5
East of England	1876	98	37	2	2	0	1915	100	39	2
London	2087	95	101	5	0	0	2188	100	101	5
N East, Yorks & Humber	2831	98	48	2	1	0	2880	100	49	2
North West	2130	98	49	2	1	0	2180	100	50	2
South East	3009	97	107	3	2	0	3118	100	109	3
South West	2123	94	141	6	2	0	2266	100	143	6
West Midlands	1774	98	39	2	2	0	1815	100	41	2
England	17345	97	594	3	11	0	17950	100	605	3
England 2023/24	14977	96	580	4	10	0	15567	100	590	4

Region	Invasive					Non-Invasive					Overall				
	1		2+		Total	1		2+		Total	1		2+		Total
	No	%	No	%		No	%	No	%		No	%	No	%	
East Midlands	1184	90	132	10	1316	175	73	65	27	240	1368	87	200	13	1568
East of England	1430	94	98	6	1528	275	81	66	19	341	1716	91	165	9	1881
London	1591	95	89	5	1680	375	79	102	21	477	1980	91	192	9	2172
N East, Yorks & Humber	2182	94	145	6	2327	408	82	90	18	499	2616	92	236	8	2852
North West	1573	90	166	10	1739	305	77	90	23	395	1895	88	259	12	2154
South East	2248	94	151	6	2399	521	78	147	22	669	2787	90	303	10	3090
South West	1673	93	125	7	1798	333	79	90	21	423	2023	90	216	10	2239
West Midlands	1355	95	75	5	1430	263	78	74	22	338	1631	91	152	9	1783
England	13236	93	981	7	14217	2655	79	724	21	3382	16016	90	1723	10	17739
England 2023/24	11409	93	864	7	12273	2344	80	587	20	2932	13877	90	1484	10	15361

Region	C5, B5, E5 or a combination thereof		C4, B4, E4 or a combination thereof		C3, B3, E3 or a combination thereof		C2, B2, E2 or a combination thereof		C1, B1, E1 or a combination thereof		Total
	No	%	No	%	No	%	No	%	No	%	
East Midlands	204	85	6	3	21	9	5	2	4	2	240
East of England	297	87	6	2	32	9	0	0	6	2	341
London	415	87	6	1	41	9	8	2	7	1	477
N East, Yorks & Humber	439	88	3	1	41	8	7	1	8	2	499
North West	342	87	6	2	41	10	5	1	1	0	395
South East	557	83	8	1	88	13	7	1	8	1	669
South West	363	86	8	2	39	9	4	1	9	2	423
West Midlands	284	84	6	2	42	12	2	1	3	1	338
England	2901	86	49	1	345	10	38	1	46	1	3382
England 2122	2565	87	42	1	261	9	26	1	38	1	2932

Region	Invasive					Non-Invasive					Overall				
	Further visit		No further visit		Total	Further visit		No further visit		Total	Further visit		No further visit		Total
	No	%	No	%		No	%	No	%		No	%	No	%	
East Midlands	66	5	1257	95	1323	11	4	242	96	253	79	5	1509	95	1588
East of England	41	3	1493	97	1534	14	4	354	96	368	55	3	1860	97	1915
London	47	3	1636	97	1683	20	4	470	96	490	67	3	2121	97	2188
N East, Yorks & Humber	84	4	2248	96	2332	22	4	497	96	519	107	4	2773	96	2880
North West	78	4	1666	96	1744	12	3	403	97	415	92	4	2088	96	2180
South East	108	4	2296	96	2404	35	5	655	95	690	144	5	2974	95	3118
South West	63	3	1739	97	1802	10	2	435	98	445	74	3	2192	97	2266
West Midlands	56	4	1381	96	1437	21	6	340	94	361	80	4	1735	96	1815
England	543	4	13716	96	14259	145	4	3396	96	3541	698	4	17252	96	17950
England 2023/24	528	4	11787	96	12315	125	4	2968	96	3093	658	4	14909	96	15567

Region	Benign biopsy rate		Malignant biopsy rate
	Prevalent	Incident	
East Midlands	0.64	0.27	0.10
East of England	0.54	0.23	0.15
London	0.43	0.21	0.06
N East, Yorks & Humber	0.60	0.16	0.08
North West	0.53	0.20	0.10
South East	0.57	0.17	0.08
South West	0.51	0.25	0.11
West Midlands	0.53	0.20	0.16
England	0.55	0.21	0.10
England 2023/24	0.66	0.20	0.11

Numerator – number of benign open biopsy at prevalent or incident screen (all ages)
Denominator – Number of women screened at prevalent or incident screen (all ages)

Region	Total malignant open biopsies	Invasive		Micro-invasive		Non-invasive		Status unknown	
		No.	%	No.	%	No.	%	No.	%
East Midlands	21	8	38	0	0	13	62	0	0
East of England	35	7	20	0	0	27	77	1	3
London	17	3	18	0	0	14	82	0	0
N East, Yorks & Humber	29	6	21	2	7	21	72	0	0
North West	26	5	19	1	4	20	77	0	0
South East	28	5	18	1	4	22	79	0	0
South West	29	5	17	1	3	23	79	0	0
West Midlands	33	8	24	1	3	24	73	0	0
England	218	47	22	6	3	164	75	1	0
England 2023/24	211	45	21	2	1	164	78	0	0

Region	Total malignant open biopsies	No non-operative procedures		Cytology only		Core biopsy/VAB only		Both cytology and core biopsy/VAB		VAE and other non-op biopsy	
		No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	8	1	13	0	0	7	88	0	0	0	0
East of England	7	1	14	0	0	3	43	1	14	1	14
London	3	0	0	0	0	3	100	0	0	0	0
N East, Yorks & Humber	6	1	17	1	17	4	67	0	0	0	0
North West	5	0	0	0	0	5	100	0	0	0	0
South East	5	0	0	0	0	5	100	0	0	0	0
South West	5	1	20	0	0	4	80	0	0	0	0
West Midlands	8	1	13	0	0	6	75	0	0	1	13
England	47	5	11	1	2	37	79	1	2	2	4
England 2023/24	45	4	9	0	0	38	84	0	0	3	7

Region	Total malignant open biopsies	No non-operative procedures		Cytology only		Core biopsy/VAB only		Both cytology and core biopsy/VAB		VAE and other non-op biopsy	
		No.	%	No.	%		%	No.	%	No.	%
East Midlands	13	0	0	0	0	11	85	0	0	2	15
East of England	27	0	0	0	0	25	93	0	0	1	4
London	14	1	7	0	0	13	93	0	0	0	0
N East, Yorks & Humber	23	0	0	0	0	21	91	0	0	2	9
North West	21	0	0	0	0	16	76	1	5	4	19
South East	23	0	0	0	0	18	78	1	4	4	17
South West	24	1	4	0	0	22	92	0	0	1	4
West Midlands	25	0	0	0	0	24	96	0	0	1	4
England	170	2	1	0	0	150	88	2	1	15	9
England 2023/24	166	3	2	0	0	146	88	0	0	17	10

Region	Total	No Non-operative diagnosis		C4, B4, E4 or a combination thereof		C3, B3, E3 or a combination thereof		C2, B2, E2 or a combination thereof		C1, B1, E1 or a combination thereof	
		No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	8	1	13	3	38	3	38	1	13	0	0
East of England	7	1	14	2	29	3	43	1	14	0	0
London	3	0	0	1	33	2	67	0	0	0	0
N East, Yorks & Humber	6	1	17	1	17	1	17	1	17	2	33
North West	5	0	0	2	40	3	60	0	0	0	0
South East	5	0	0	0	0	5	100	0	0	0	0
South West	5	1	20	4	80	0	0	0	0	0	0
West Midlands	8	1	13	3	38	4	50	0	0	0	0
England	47	5	11	16	34	21	45	3	6	2	4
England 2023/24	45	4	9	26	58	11	24	3	7	1	2

Region	Total malignant open biopsies	No non-operative procedures		C4, B4 or both		C3, B3 or both		C2, B2 or both		C1, B1 or both	
		No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	13	0	0	2	15	11	85	0	0	0	0
East of England	27	0	0	10	37	16	59	1	4	0	0
London	14	1	7	5	36	8	57	0	0	0	0
N East, Yorks & Humber	23	0	0	7	30	14	61	0	0	2	9
North West	21	0	0	5	24	15	71	1	5	0	0
South East	23	0	0	8	35	14	61	0	0	1	4
South West	24	1	4	10	42	13	54	0	0	0	0
West Midlands	25	0	0	6	24	19	76	0	0	0	0
England	170	2	1	53	31	110	65	2	1	3	2
England 2023/24	166	3	2	51	31	106	64	5	3	1	1

Region	Unknown cytonuclear grade		Unknown size		Unknown cytonuclear grade and/or size		Total with surgery
	No.	%	No.	%	No.	%	No.
East Midlands	3	1	13	6	15	6	234
East of England	6	2	22	6	26	8	342
London	7	2	32	7	35	8	451
N East, Yorks & Humber	3	1	34	7	36	7	501
North West	1	0	28	7	29	7	389
South East	5	1	33	5	36	6	624
South West	5	1	32	7	37	9	431
West Midlands	2	1	18	5	20	6	336
England	32	1	212	6	234	7	3308
England 2023/24	23	1	173	6	178	6	2915

Region	<15mm		15-≤40mm		>40 mm		Size not assessable		Size unknown		Total non-invasive with surgery	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	72	31	98	42	47	20	4	2	13	6	234	100
East of England	113	33	148	43	54	16	5	1	22	6	342	100
London	118	26	189	42	97	22	15	3	32	7	451	100
N East, Yorks & Humber	161	32	197	39	102	20	7	1	34	7	501	100
North West	130	33	161	41	65	17	5	1	28	7	389	100
South East	189	30	261	42	118	19	23	4	33	5	624	100
South West	148	34	176	41	58	13	17	4	32	7	431	100
West Midlands	84	25	156	46	69	21	9	3	18	5	336	100
England	1015	31	1386	42	610	18	85	3	212	6	3308	100
England 2023/24	892	31	1222	42	544	19	84	3	173	6	2915	100

Region	High		Intermediate		Low		Not assessable		Unknown		Total non-invasive with surgery	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	126	54	85	36	16	7	4	2	3	1	234	100
East of England	200	58	101	30	29	8	6	2	6	2	342	100
London	219	49	165	37	45	10	15	3	7	2	451	100
N East, Yorks & Humber	292	58	170	34	29	6	7	1	3	1	501	100
North West	225	58	123	32	35	9	5	1	1	0	389	100
South East	321	51	195	31	79	13	24	4	5	1	624	100
South West	253	59	122	28	33	8	18	4	5	1	431	100
West Midlands	200	60	102	30	23	7	9	3	2	1	336	100
England	1836	56	1063	32	289	9	88	3	32	1	3308	100
England 2023/24	1659	57	901	31	248	9	84	3	23	1	2915	100

Region	<10mm		10- <15mm		15- ≤20mm		>20- ≤35mm		>35- ≤50mm		>50mm		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	318	25	344	27	271	21	248	19	62	5	33	3	5	0	1281	100
East of England	348	24	378	26	349	24	265	18	63	4	55	4	12	1	1470	100
London	342	21	367	23	356	22	363	23	94	6	57	4	22	1	1601	100
N East, Yorks & Humber	628	28	585	26	454	20	399	18	80	4	72	3	17	1	2235	100
North West	382	23	447	27	388	23	309	18	77	5	56	3	19	1	1678	100
South East	556	24	576	25	546	23	414	18	112	5	99	4	25	1	2328	100
South West	506	29	412	24	395	23	311	18	70	4	39	2	19	1	1752	100
West Midlands	333	24	372	27	323	23	252	18	59	4	49	4	9	1	1397	100
England	3413	25	3481	25	3082	22	2561	19	617	4	460	3	128	1	13742	100
England 2023/24	2829	24	2982	25	2712	23	2268	19	551	5	341	3	142	1	11825	100

Table 24: Whole size of surgically treated invasive breast cancers

Region	<10mm		10- <15mm		15- ≤20mm		>20- ≤35mm		>35- ≤50mm		>50mm		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	178	14	269	21	266	21	277	22	118	9	81	6	92	7	1281	100
East of England	197	13	304	21	349	24	325	22	101	7	97	7	97	7	1470	100
London	161	10	278	17	344	21	376	23	143	9	154	10	145	9	1601	100
N East, Yorks & Humber	325	15	486	22	490	22	534	24	166	7	166	7	68	3	2235	100
North West	232	14	336	20	377	22	392	23	145	9	110	7	86	5	1678	100
South East	310	13	469	20	508	22	525	23	196	8	185	8	135	6	2328	100
South West	290	17	344	20	406	23	394	22	121	7	96	5	101	6	1752	100
West Midlands	184	13	276	20	313	22	314	22	105	8	105	8	100	7	1397	100
England	1877	14	2762	20	3053	22	3137	23	1095	8	994	7	824	6	13742	100
England 2023/24	1568	13	2389	20	2660	22	2743	23	949	8	817	7	699	6	11825	100

Table 25: Grade of surgically treated invasive cancers

Region	Grade 1		Grade 2		Grade 3		Not assessable		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	329	26	758	59	192	15	2	0	0	0	1281	100
East of England	319	22	893	61	243	17	6	0	9	1	1470	100
London	342	21	997	62	257	16	2	0	3	0	1601	100
N East, Yorks & Humber	536	24	1332	60	364	16	2	0	1	0	2235	100
North West	431	26	962	57	282	17	3	0	0	0	1678	100
South East	585	25	1383	59	347	15	4	0	9	0	2328	100
South West	493	28	964	55	285	16	9	1	1	0	1752	100
West Midlands	302	22	923	66	168	12	2	0	2	0	1397	100
England	3337	24	8212	60	2138	16	30	0	25	0	13742	100
England 2023/24	2801	24	7044	60	1927	16	25	0	28	0	11825	100

Table 26: Data completeness for surgically treated invasive cancers (excl. cases with neo-adjuvant therapy)

Region	Unknown invasive size		Unknown nodal status		Unknown grade		Unknown NPI*		Total invasive
	No.	%	No.	%	No.	%	No.	%	
East Midlands	5	0.4	10	0.9	0	0.0	15	1.3	1163
East of England	8	0.6	71	5.4	3	0.2	84	6.4	1322
London	20	1.4	28	2.0	2	0.1	50	3.6	1390
N East, Yorks & Humber	9	0.4	52	2.5	0	0.0	63	3.0	2103
North West	12	0.8	53	3.5	0	0.0	65	4.3	1524
South East	20	0.9	32	1.5	5	0.2	55	2.6	2154
South West	16	1.0	68	4.2	1	0.1	88	5.4	1617
West Midlands	6	0.5	6	0.5	2	0.2	13	1.1	1202
England	96	0.8	320	2.6	13	0.1	433	3.5	12475
England 2023/24	107	1.0	182	1.7	19	0.2	297	2.8	10679

* NPI is unknown if size, grade or nodal status are unknown or grade if not assessable

Table 27: NPI Group of surgically treated invasive cancers (with known NPI excl. cases with neo-adjuvant therapy)

Region	EPG		GPG		MPG1		MPG2		PPG		Total with known NPI	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	257	22	467	41	260	23	110	10	54	5	1148	100
East of England	226	18	507	41	333	27	121	10	51	4	1238	100
London	238	18	545	41	354	26	143	11	60	4	1340	100
N East, Yorks & Humber	402	20	853	42	481	24	221	11	83	4	2040	100
North West	319	22	596	41	342	23	132	9	70	5	1459	100
South East	461	22	866	41	481	23	212	10	79	4	2099	100
South West	367	24	628	41	340	22	138	9	56	4	1529	100
West Midlands	215	18	562	47	264	22	107	9	41	3	1189	100
England	2485	21	5024	42	2855	24	1184	10	494	4	12042	100
England 2023/24	2074	20	4305	41	2572	25	1009	10	422	4	10382	100

Table 28: ER status (invasive cancers)

Region	Positive		Negative		Not done or Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	1215	92	106	8	4	0	1325
East of England	1431	93	101	7	3	0	1535
London	1539	91	142	8	2	0	1683
N East, Yorks & Humber	2149	92	179	8	5	0	2333
North West	1620	93	125	7	2	0	1747
South East	2237	93	164	7	4	0	2405
South West	1655	92	149	8	0	0	1804
West Midlands	1305	91	130	9	3	0	1438
England	13151	92	1096	8	23	0	14270
England 2023/24	11294	92	1013	8	20	0	12327

Table 29: PgR status (invasive)

Region	Positive		Negative		Not done or Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	789	60	168	13	368	28	1325
East of England	1087	71	205	13	243	16	1535
London	1380	82	293	17	10	1	1683
N East, Yorks & Humber	1335	57	320	14	678	29	2333
North West	1442	83	300	17	5	0	1747
South East	1978	82	417	17	10	0	2405
South West	962	53	239	13	603	33	1804
West Midlands	1188	83	247	17	3	0	1438
England	10161	71	2189	15	1920	13	14270
England 2023/24	8431	68	1982	16	1914	16	12327

Table 30: PgR status of invasive cancers with negative ER status							
Region	Positive		Negative		Not done or Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	5	5	77	73	24	23	106
East of England	3	3	91	90	7	7	101
London	7	5	133	94	2	1	142
N East, Yorks & Humber	8	4	158	88	13	7	179
North West	5	4	120	96	0	0	125
South East	9	5	154	94	1	1	164
South West	6	4	125	84	18	12	149
West Midlands	7	5	123	95	0	0	130
England	50	5	981	90	65	6	1096
England 2023/24	43	4	899	89	71	7	1013

Table 31: HER-2 status for invasive cancers									
Region	Positive		Negative		Borderline		Not done or Unknown		Total
	No.	%	No.	%	No.	%	No.	%	
East Midlands	135	10	1181	89	3	0	6	0	1325
East of England	143	9	1345	88	6	0	41	3	1535
London	202	12	1466	87	9	1	6	0	1683
N East, Yorks & Humber	227	10	2090	90	3	0	13	1	2333
North West	199	11	1537	88	4	0	7	0	1747
South East	229	10	2126	88	37	2	13	1	2405
South West	169	9	1604	89	5	0	26	1	1804
West Midlands	154	11	1269	88	2	0	13	1	1438
England	1458	10	12618	88	69	0	125	1	14270
England 2023/24	1225	10	10964	89	47	0	91	1	12327

Table 32: Size, grade and nodal status for invasive cancers with HER2 testing not done or unknown							
Region	Total HER2 unknown/not done	<10mm invasive size		Grade 1		Negative nodal status	
		No	%	No	%	No	%
East Midlands	6	3	50	1	17	5	83
East of England	41	7	17	10	24	20	49
London	6	2	33	4	67	1	17
N East, Yorks & Humber	13	5	38	4	31	5	38
North West	7	2	29	3	43	4	57
South East	13	8	62	2	15	8	62
South West	26	4	15	9	35	21	81
West Midlands	13	5	38	4	31	9	69
England	125	36	29	37	30	73	58
England 2023/24	91	38	42	20	22	54	59

Region	Positive		Negative		Not done or Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	64	24	10	4	191	72	265
East of England	86	23	11	3	283	74	380
London	198	39	33	7	275	54	506
N East, Yorks & Humber	187	34	33	6	329	60	549
North West	242	56	45	10	149	34	436
South East	419	59	51	7	243	34	713
South West	284	61	43	9	138	30	465
West Midlands	54	14	11	3	314	83	379
England	1534	42	237	6	1922	52	3693
England 2023/24	1334	41	226	7	1690	52	3250

Region	Conservation surgery		Mastectomy		No surgery		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	185	73	47	19	19	8	2	1	253	100
East of England	292	79	47	13	26	7	3	1	368	100
London	351	71	100	20	40	8	0	0	491	100
N East, Yorks & Humber	410	79	90	17	19	4	1	0	520	100
North West	316	76	70	17	26	6	3	1	415	100
South East	532	77	90	13	67	10	2	0	691	100
South West	355	80	71	16	15	3	5	1	446	100
West Midlands	277	77	59	16	26	7	0	0	362	100
England	2718	77	574	16	238	7	16	0	3546	100
England 2023/24	2376	77	519	17	181	6	20	1	3096	100

Region	Conservation surgery		Mastectomy		No surgery		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	9	75	3	25	0	0	0	0	12	100
East of England	8	67	4	33	0	0	0	0	12	100
London	10	67	5	33	0	0	0	0	15	100
N East, Yorks & Humber	22	76	7	24	0	0	0	0	29	100
North West	16	76	5	24	0	0	0	0	21	100
South East	17	77	5	23	0	0	0	0	22	100
South West	12	63	7	37	0	0	0	0	19	100
West Midlands	12	71	5	29	0	0	0	0	17	100
England	106	72	41	28	0	0	0	0	147	100
England 2023/24	112	73	42	27	0	0	0	0	154	100

Region	Conservation surgery		Mastectomy		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%
East Midlands	17	36	30	64	0	0	47	100
East of England	27	50	27	50	0	0	54	100
London	33	34	64	66	0	0	97	100
N East, Yorks & Humber	45	44	57	56	0	0	102	100
North West	24	37	41	63	0	0	65	100
South East	64	54	54	46	0	0	118	100
South West	22	38	35	60	1	2	58	100
West Midlands	28	41	41	59	0	0	69	100
England	260	43	349	57	1	0	610	100
England 2023/24	238	44	306	56	0	0	544	100

Region	Conservation surgery		Mastectomy		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%
East Midlands	9	29	22	71	0	0	31	100
East of England	24	52	22	48	0	0	46	100
London	22	37	38	63	0	0	60	100
N East, Yorks & Humber	33	45	41	55	0	0	74	100
North West	16	34	31	66	0	0	47	100
South East	50	54	43	46	0	0	93	100
South West	14	36	24	62	1	3	39	100
West Midlands	18	36	32	64	0	0	50	100
England	186	42	253	58	1	0	440	100
England 2023/24	170	42	237	58	0	0	407	100

Region	Conservation surgery		Mastectomy		No Surgery		Unknown		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	1108	84	173	13	44	3	0	0	1325	100
East of England	1264	82	206	13	65	4	0	0	1535	100
London	1309	78	292	17	82	5	0	0	1683	100
N East, Yorks & Humber	1966	84	269	12	98	4	0	0	2333	100
North West	1426	82	252	14	69	4	0	0	1747	100
South East	1950	81	378	16	77	3	0	0	2405	100
South West	1510	84	242	13	52	3	0	0	1804	100
West Midlands	1180	82	217	15	41	3	0	0	1438	100
England	11713	82	2029	14	528	4	0	0	14270	100
England 2023/24	10028	81	1793	15	502	4	4	0	12327	100

Table 39: Mastectomy rate with invasive tumour size

Region	<15mm		15-≤20mm		>20-≤35mm		>35-≤50mm		>50mm	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	51	8	27	10	48	19	23	37	23	70
East of England	61	8	41	12	39	15	31	49	32	58
London	82	12	39	11	73	20	44	47	46	81
N East, Yorks & Humber	88	7	38	8	68	17	27	34	46	64
North West	78	9	43	11	61	20	29	38	38	68
South East	92	8	71	13	81	20	45	40	85	86
South West	74	8	31	8	77	25	24	34	33	85
West Midlands	67	10	36	11	56	22	27	46	29	59
England	593	9	326	11	503	20	250	41	332	72
England 2023/24	530	9	287	11	456	20	237	43	254	74

Numerator – number of invasive tumours treated by mastectomy by invasive size

Denominator – number of surgically treated invasive breast cancers by invasive size (see Table 24)

Table 40: Mastectomy rate with whole tumour size

Region	<15mm		15-≤20mm		>20-≤35mm		>35-≤50mm		>50mm	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	14	3	16	6	36	13	41	35	45	56
East of England	20	4	21	6	38	12	43	43	57	59
London	19	4	23	7	55	15	48	34	110	71
N East, Yorks & Humber	19	2	22	4	69	13	54	33	93	56
North West	17	3	26	7	60	15	45	31	81	74
South East	34	4	44	9	67	13	62	32	141	76
South West	20	3	21	5	68	17	41	34	68	71
West Midlands	22	5	21	7	46	15	38	36	68	65
England	165	4	194	6	439	14	372	34	663	67
England 2023/24	143	4	177	7	398	15	350	37	547	67

Numerator – number of tumours treated by mastectomy by whole size

Denominator – number of surgically treated invasive breast cancers by whole size (see Table 25)

Table 41: Mastectomy rate for <15mm invasive cancers by whole tumour size

Region	Whole Size <15mm		Whole size 15-≤20mm		Whole size >20-≤35mm		Whole size >35-≤50mm		Whole size >50mm	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	14	3	5	2	2	1	14	12	14	17
East of England	20	4	4	1	9	3	16	16	8	8
London	19	4	9	3	12	3	10	7	27	18
N East, Yorks & Humber	19	2	6	1	12	2	15	9	35	21
North West	17	3	8	2	16	4	13	9	21	19
South East	34	4	8	2	11	2	11	6	23	12
South West	20	3	8	2	8	2	10	8	21	22
West Midlands	22	5	5	2	6	2	8	8	21	20
England	165	4	53	2	76	2	97	9	170	17
England 2023/24	143	4	39	1	74	3	84	9	157	19

Numerator – number of tumours treated by mastectomy where invasive size is less than 15mm, by whole size

Denominator – number of surgically treated invasive breast cancers by whole size (see Table 25)

Region	Immediate reconstruction		No immediate reconstruction		Unknown		Total mastectomies	
	No.	%	No.	%	No.	%	No.	%
East Midlands	69	31	153	69	1	0	223	100
East of England	94	37	163	63	0	0	257	100
London	199	50	198	50	0	0	397	100
N East, Yorks & Humber	140	38	226	62	0	0	366	100
North West	116	35	206	63	5	2	327	100
South East	140	30	333	70	0	0	473	100
South West	96	30	224	70	0	0	320	100
West Midlands	106	38	175	62	0	0	281	100
England	960	36	1678	63	6	0	2644	100
England 2023/24	820	35	1521	65	13	1	2354	100

Region	Had treatment		Did not have treatment		Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	151	9	1439	91	0	0	1590
East of England	181	9	1735	91	0	0	1916
London	222	10	1967	90	0	0	2189
N East, Yorks & Humber	178	6	2704	94	0	0	2882
North West	195	9	1988	91	0	0	2183
South East	201	6	2919	94	0	0	3120
South West	162	7	2107	93	0	0	2269
West Midlands	223	12	1594	88	0	0	1817
England	1513	8	16453	92	0	0	17966
England 2023/24	1389	9	14193	91	0	0	15582

Region	Had treatment		Did not have treatment		Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	57	4	1533	96	0	0	1590
East of England	93	5	1823	95	0	0	1916
London	91	4	2098	96	0	0	2189
N East, Yorks & Humber	83	3	2799	97	0	0	2882
North West	103	5	2080	95	0	0	2183
South East	67	2	3053	98	0	0	3120
South West	64	3	2205	97	0	0	2269
West Midlands	117	6	1700	94	0	0	1817
England	675	4	17291	96	0	0	17966
England 2023/24	650	4	14932	96	0	0	15582

Region	Had treatment		Did not have treatment		Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	99	7	1226	93	0	0	1325
East of England	95	6	1440	94	0	0	1535
London	131	8	1552	92	0	0	1683
N East, Yorks & Humber	95	4	2238	96	0	0	2333
North West	96	5	1651	95	0	0	1747
South East	140	6	2265	94	0	0	2405
South West	101	6	1703	94	0	0	1804
West Midlands	114	8	1324	92	0	0	1438
England	871	6	13399	94	0	0	14270
England 2023/24	781	6	11546	94	0	0	12327

Region	Had treatment		Did not have treatment		Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	0	0	1590	100	0	0	1590
East of England	4	0	1912	100	0	0	1916
London	12	1	2177	99	0	0	2189
N East, Yorks & Humber	10	0	2872	100	0	0	2882
North West	6	0	2177	100	0	0	2183
South East	15	0	3105	100	0	0	3120
South West	4	0	2265	100	0	0	2269
West Midlands	7	0	1810	100	0	0	1817
England	58	0	17908	100	0	0	17966
England 2023/24	56	0	15526	100	0	0	15582

Region	Total surgeons	<10 cases		10-29 cases		30-49 cases		50-79 cases		80-99 cases		100+ cases		Median
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
East Midlands	70	16	23	28	40	24	34	1	1	1	1	0	0	25
East of England	79	20	25	27	34	26	33	5	6	0	0	1	1	24
London	108	34	31	40	37	27	25	6	6	0	0	1	1	22
N East, Yorks & Humber	104	26	25	29	28	35	34	12	12	2	2	0	0	29
North West	105	30	29	42	40	28	27	5	5	0	0	0	0	21
South East	105	22	21	31	30	32	30	18	17	2	2	0	0	26
South West	92	21	23	32	35	29	32	10	11	0	0	0	0	26
West Midlands	66	11	17	24	36	24	36	7	11	0	0	0	0	29
England	729	180	25	253	35	225	31	64	9	5	1	2	0	25
England 2023/24	703	202	29	279	40	174	25	45	6	1	0	2	0	21

The surgeons in each Region are credited with their total UK screening caseload.

Table 48: Proportion of women referred to consultant surgeons according to annual caseload of surgeon

Region	Total (referred)	<10 cases		10-29 cases		30-49 cases		50-79 cases		80-99 cases		100+ cases	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	1655	46	3	576	35	900	54	53	3	80	5	0	0
East of England	1921	54	3	524	27	979	51	262	14	0	0	102	5
London	2267	106	5	728	32	984	43	342	15	0	0	107	5
N East, Yorks & Humber	2939	69	2	644	22	1345	46	715	24	166	6	0	0
North West	2292	98	4	817	36	1061	46	316	14	0	0	0	0
South East	3169	63	2	635	20	1241	39	1062	34	168	5	0	0
South West	2375	70	3	657	28	1082	46	566	24	0	0	0	0
West Midlands	1841	32	2	491	27	936	51	382	21	0	0	0	0
England	18459	538	3	5072	27	8528	46	3698	20	414	2	209	1
England 2023/24	15966	710	4	5601	35	6594	41	2684	17	84	1	293	2

Table 49: Repeat operations (>1 op) of surgically treated invasive and non/micro-invasive cancers without a non-op diagnosis

Region	Invasive			Non/micro-invasive		
	Total	No	%	Total	No	%
East Midlands	8	6	75	13	6	46
East of England	6	6	100	25	7	28
London	3	3	100	14	6	43
N East, Yorks & Humber	6	4	67	23	13	57
North West	5	2	40	18	7	39
South East	5	4	80	22	7	32
South West	5	5	100	24	7	29
West Midlands	8	7	88	25	9	36
England	46	37	80	164	62	38
England 2023/24	45	31	69	166	58	35

Table 50: Number of therapeutic operations (invasive cancers) with initial BCS and a non-operative diagnosis

Region	1		2		3		4+		Unknown		Total cancers		Repeat 2+ ops	
	No	%	No	%	No	%	No	%	No	%	No	%	No	%
East Midlands	938	84	161	14	20	2	2	0	0	0	1121	100	183	16
East of England	1100	86	162	13	17	1	3	0	0	0	1282	100	182	14
London	1084	82	220	17	16	1	2	0	0	0	1322	100	238	18
N East, Yorks & Humber	1726	87	230	12	30	2	1	0	0	0	1987	100	261	13
North West	1249	87	168	12	23	2	2	0	1	0	1443	100	193	13
South East	1638	83	311	16	28	1	4	0	0	0	1981	100	343	17
South West	1279	83	238	15	25	2	4	0	0	0	1546	100	267	17
West Midlands	1002	83	175	15	22	2	2	0	0	0	1201	100	199	17
England	10016	84	1665	14	181	2	20	0	1	0	11883	100	1866	16
England 2023/24	8411	83	1580	16	155	2	20	0	0	0	10166	100	1755	17

Table 51: Number of therapeutic operations (non/micro-invasive cancers) with initial BCS and a non-operative diagnosis

Region	1		2		3		4+		Unknown		Total cancers		Repeat 2+ ops	
	No	%	No	%	No	%	No	%	No	%	No	%	No	%
East Midlands	153	80	34	18	3	2	1	1	0	0	191	100	38	20
East of England	228	80	50	18	4	1	2	1	0	0	284	100	56	20
London	285	78	62	17	16	4	2	1	0	0	365	100	80	22
N East, Yorks & Humber	329	77	81	19	16	4	3	1	0	0	429	100	100	23
North West	267	80	55	17	9	3	2	1	0	0	333	100	66	20
South East	392	73	125	23	23	4	0	0	0	0	540	100	148	27
South West	265	73	81	22	13	4	2	1	0	0	361	100	96	27
West Midlands	200	72	64	23	9	3	3	1	0	0	276	100	76	28
England	2119	76	552	20	93	3	15	1	0	0	2779	100	660	24
England 2023/24	1857	76	493	20	74	3	11	0	0	0	2435	100	578	24

Table 52: Number of therapeutic operations for invasive cancers with B5b (invasive) core biopsy result

Region	1		2		3+		Unknown		Total		Repeat (2+) rate	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	1051	90	107	9	16	1	0	0	1174	100	123	10
East of England	1208	88	147	11	12	1	0	0	1367	100	159	12
London	1280	86	204	14	13	1	0	0	1497	100	217	14
N East, Yorks & Humber	1875	90	191	9	27	1	0	0	2093	100	218	10
North West	1407	89	154	10	18	1	1	0	1580	100	172	11
South East	1901	87	261	12	26	1	0	0	2188	100	287	13
South West	1429	86	205	12	25	2	0	0	1659	100	230	14
West Midlands	1131	86	163	12	20	2	0	0	1314	100	183	14
England	11282	88	1432	11	157	1	1	0	12872	100	1589	12
England 2023/24	9533	86	1418	13	136	1	0	0	11087	100	1554	14

Table 53: Number of therapeutic operations for invasive cancers with B5a (non-invasive) core biopsy result

Region	1		2		3+		Unknown		Total		Repeat (2+) rate	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	22	27	54	66	6	7	0	0	82	100	60	73
East of England	40	47	39	45	7	8	0	0	86	100	46	53
London	39	45	42	49	5	6	0	0	86	100	47	55
N East, Yorks & Humber	62	50	59	47	4	3	0	0	125	100	63	50
North West	40	49	34	42	7	9	0	0	81	100	41	51
South East	48	42	61	54	5	4	0	0	114	100	66	58
South West	25	31	51	64	4	5	0	0	80	100	55	69
West Midlands	27	43	33	52	3	5	0	0	63	100	36	57
England	303	42	373	52	41	6	0	0	717	100	414	58
England 2023/24	249	41	322	53	34	6	1	0	606	100	356	59

Table 54: Number of therapeutic operations for non-invasive or micro-invasive cancers with B5a (non-invasive) core biopsy result

Region	1		2		3+		Unknown		Total		Repeat (2+) rate	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	181	85	28	13	4	2	0	0	213	100	32	15
East of England	248	82	48	16	6	2	0	0	302	100	54	18
London	341	80	65	15	18	4	0	0	424	100	83	20
N East, Yorks & Humber	365	78	82	18	18	4	0	0	465	100	100	22
North West	300	82	53	15	11	3	0	0	364	100	64	18
South East	431	75	118	21	23	4	0	0	572	100	141	25
South West	294	75	84	22	12	3	0	0	390	100	96	25
West Midlands	237	78	57	19	10	3	0	0	304	100	67	22
England	2397	79	535	18	102	3	0	0	3034	100	637	21
England 2023/24	2123	78	502	19	79	3	1	0	2705	100	581	21

Table 55: Repeat BCS (all cancers) with initial BCS and a non-operative diagnosis

Region	All cancers with initial BCS (with non-op diagnosis)	Repeat BCS	
		No	%
East Midlands	1312	141	11
East of England	1566	162	10
London	1687	217	13
N East, Yorks & Humber	2416	257	11
North West	1776	180	10
South East	2522	385	15
South West	1907	272	14
West Midlands	1477	190	13
England	14663	1804	12
England 2023/24	12603	1667	13

Table 56: Converted to mastectomy (all cancers) with initial BCS and a non-operative diagnosis

Region	All cancers with initial BCS (with non-op diagnosis)	Converted to Mx	
		No	%
East Midlands	1312	26	2
East of England	1566	28	2
London	1687	37	2
N East, Yorks & Humber	2416	46	2
North West	1776	39	2
South East	2522	46	2
South West	1907	55	3
West Midlands	1477	39	3
England	14663	316	2
England 2023/24	12603	274	2

Region	Total cases with surgery to the breast	Complete margin data	% complete margin data	Not complete margin data
East Midlands	1489	1330	89	159
East of England	1779	1655	93	124
London	1961	1810	92	151
N East, Yorks & Humber	2703	2644	98	59
North West	2002	1935	97	67
South East	2884	2791	97	93
South West	2123	2048	96	75
West Midlands	1688	1662	98	26
England	16629	15875	95	754
England 2023/24	14441	13642	94	799

Region	Total cases with surgery	Margin clear		Margin not clear		Margin unknown	
		No.	%	No.	%	No.	%
East Midlands	1274	1257	99	17	1	0	0
East of England	1527	1510	99	15	1	2	0
London	1578	1556	99	21	1	1	0
N East, Yorks & Humber	2341	2288	98	38	2	15	1
North West	1688	1653	98	29	2	6	0
South East	2421	2363	98	47	2	11	0
South West	1809	1779	98	23	1	7	0
West Midlands	1415	1377	97	36	3	2	0
England	14053	13783	98	226	2	44	0
England 2023/24	12125	11915	98	180	1	30	0

Region	Total cases with surgery	Margin clear		Margin not clear		Margin unknown	
		No.	%	No.	%	No.	%
East Midlands	213	208	98	4	2	1	0
East of England	249	235	94	14	6	0	0
London	383	366	96	17	4	0	0
N East, Yorks & Humber	361	346	96	12	3	3	1
North West	311	300	96	11	4	0	0
South East	461	443	96	13	3	5	1
South West	309	306	99	3	1	0	0
West Midlands	273	263	96	9	3	1	0
England	2560	2467	96	83	3	10	0
England 2023/24	2292	2185	95	78	3	29	1

Region	Had axillary ultrasound		Did not have axillary ultrasound		Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	1312	99	13	1	0	0	1325
East of England	1504	98	31	2	0	0	1535
London	1681	100	2	0	0	0	1683
N East, Yorks & Humber	2297	98	36	2	0	0	2333
North West	1736	99	10	1	1	0	1747
South East	2402	100	1	0	2	0	2405
South West	1776	98	28	2	0	0	1804
West Midlands	1433	100	5	0	0	0	1438
England	14141	99	126	1	3	0	14270
England 2023/24	12234	99	92	1	1	0	12327

Region	Normal		Abnormal		Total
	No.	%	No.	%	
East Midlands	1116	85	196	15	1312
East of England	1339	89	165	11	1504
London	1445	86	236	14	1681
N East, Yorks & Humber	1952	85	345	15	2297
North West	1498	86	238	14	1736
South East	2086	87	316	13	2402
South West	1569	88	207	12	1776
West Midlands	1205	84	228	16	1433
England	12210	86	1931	14	14141
England 2023/24	10482	86	1752	14	12234

Region	Had axillary biopsy		Did not have axillary biopsy		Unknown		Total
	No.	%	No.	%	No.	%	
East Midlands	182	93	12	6	2	1	196
East of England	142	86	23	14	0	0	165
London	230	97	6	3	0	0	236
N East, Yorks & Humber	326	94	19	6	0	0	345
North West	205	86	32	13	1	0	238
South East	307	97	9	3	0	0	316
South West	170	82	37	18	0	0	207
West Midlands	222	97	6	3	0	0	228
England	1784	92	144	8	3	0	1931
England 2023/24	1615	92	131	7	6	0	1752

Table 63: Worst axillary biopsy result for invasive cancer cases with an abnormal axillary ultrasound scan

Region	C1/B1		C2/B2		C3/B3		C4/B4		C5/B5		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	
East Midlands	6	3	71	39	1	1	3	2	101	55	182
East of England	10	7	43	30	3	2	1	1	85	60	142
London	10	4	79	34	1	0	3	1	137	60	230
N East, Yorks & Humber	4	1	153	47	0	0	5	2	164	50	326
North West	7	3	85	41	4	2	2	1	107	52	205
South East	11	4	119	39	0	0	0	0	177	58	307
South West	17	10	62	36	0	0	2	1	89	52	170
West Midlands	12	5	93	42	0	0	0	0	117	53	222
England	77	4	705	40	9	1	16	1	977	55	1784
England 2023/24	85	5	651	40	11	1	14	1	854	53	1615

Table 64: Worst axillary biopsy result for invasive cancer cases with a normal axillary ultrasound scan

Region	C1/B1		C2/B2		C3/B3		C4/B4		C5/B5		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	
East Midlands	0	0	2	50	0	0	1	25	1	25	4
East of England	0	0	3	33	0	0	0	0	6	67	9
London	0	0	1	100	0	0	0	0	0	0	1
N East, Yorks & Humber	0	0	5	63	0	0	0	0	3	38	8
North West	2	25	1	13	0	0	0	0	5	63	8
South East	1	9	5	45	0	0	0	0	5	45	11
South West	2	40	0	0	0	0	0	0	3	60	5
West Midlands	-	-	-	-	-	-	-	-	-	-	-
England	5	11	17	37	0	0	1	2	23	50	46
England 2023/24	0	0	13	39	2	6	1	3	17	52	33

Table 65: PPV of axillary biopsy results for invasive cancers (with any axillary ultrasound scan result) found to have positive nodes at surgery*

Region	C1/B1		C2/B2		C3/B3		C4/B4		C5/B5	
	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	0	0	14	22	0	-	1	50	59	97
East of England	4	57	10	29	2	100	1	100	46	85
London	1	14	10	17	1	100	3	100	59	84
N East, Yorks & Humber	3	75	27	19	0	-	4	100	105	91
North West	3	38	16	24	1	50	1	50	53	77
South East	1	10	21	20	0	-	0	-	103	89
South West	3	17	9	19	0	-	0	0	50	88
West Midlands	2	22	11	15	0	-	0	-	66	94
England	17	25	118	20	4	80	10	77	541	88
England 2023/24	16	23	79	14	3	33	7	70	449	91

Denominator is all invasive cancers with an abnormal axillary biopsy result and at least one surgery to the axilla.

*Excluded cases with neo-adjuvant therapy.

Table 66: Positive predictivity of all/any pre-op assessments for invasive cancers with positive nodal status at surgery *			
Region	Total with positive nodal status	Had positive pre-op ax assessment	
		No	%
East Midlands	199	59	30
East of England	224	46	21
London	241	59	24
N East, Yorks & Humber	381	105	28
North West	247	53	21
South East	354	104	29
South West	248	50	20
West Midlands	208	66	32
England	2102	542	26
England 2023/24	1806	449	25

*Excluded cases with neo-adjuvant therapy.

Table 67: Nodal positivity for invasive cancers without neo-adjuvant therapy and without or unknown pre-op axillary assessment			
Region	Total without/unknown pre-op ax	Positive nodal status	
		No	%
East Midlands	1026	125	12
East of England	1153	161	14
London	1223	167	14
N East, Yorks & Humber	1785	242	14
North West	1328	172	13
South East	1893	228	12
South West	1428	186	13
West Midlands	1045	129	12
England	10881	1410	13
England 2023/24	9374	1252	13

*Excluded cases with neo-adjuvant therapy.

Table 68: Pre-op axillary biopsy results for invasive cancers with positive nodal status											
Region	C1/B1		C2/B2		C3/B3		C4/B4		C5/B5		Invasive cases with positive nodal status
	No.	%	No.	%	No.	%	No.	%	No.	%	
East Midlands	0	0	14	7	0	0	1	1	59	30	199
East of England	4	2	10	4	2	1	1	0	46	21	224
London	1	0	10	4	1	0	3	1	59	24	241
N East, Yorks & Humber	3	1	27	7	0	0	4	1	105	28	381
North West	3	1	16	6	2	1	1	0	53	21	247
South East	1	0	21	6	0	0	0	0	104	29	354
South West	3	1	9	4	0	0	0	0	50	20	248
West Midlands	2	1	11	5	0	0	0	0	66	32	208
England	17	1	118	6	5	0	10	0	542	26	2102
England 21/22	16	1	79	4	3	0	7	0	449	25	1806

The denominator is all invasive cancers with axillary ultrasound and positive nodes at surgery. Excluded cases with neo-adjuvant therapy.

Table 69: Data completion of lymph node status for surgically treated invasive cancers

Region	Total invasive cancers with surgery	Nodal status known		Nodes obtained but status unknown		No nodes obtained		Unknown if nodes obtained	
		No.	%	No.	%	No.	%	No.	%
East Midlands	1281	1270	99	0	0	11	1	0	0
East of England	1470	1396	95	0	0	74	5	0	0
London	1601	1568	98	0	0	33	2	0	0
N East, Yorks & Humber	2235	2179	97	0	0	56	3	0	0
North West	1678	1620	97	0	0	58	3	0	0
South East	2328	2296	99	0	0	32	1	0	0
South West	1752	1682	96	0	0	70	4	0	0
West Midlands	1397	1390	99	0	0	7	1	0	0
England	13742	13401	98	0	0	341	2	0	0
England 2023/24	11825	11630	98	0	0	195	2	0	0

Table 70: Sentinel lymph node primary axillary procedure undertaken for invasive cancers with axillary surgery

Region	With SLNB		Other Axillary procedure		Total	
	No.	%	No.	%	No.	%
East Midlands	1175	92	100	8	1275	100
East of England	1315	94	81	6	1396	100
London	1473	94	98	6	1571	100
N East, Yorks & Humber	2030	93	147	7	2177	100
North West	1505	93	121	7	1626	100
South East	2128	93	170	7	2298	100
South West	1595	95	91	5	1686	100
West Midlands	1273	92	117	8	1390	100
England	12494	93	925	7	13419	100
England 2023/24	10791	93	857	7	11648	100

Table 71: Nodal status of invasive cancers

Region	Total known with known nodal status	Positive		Negative	
		No.	%	No.	%
East Midlands	1270	225	18	1045	82
East of England	1396	261	19	1135	81
London	1568	284	18	1284	82
N East, Yorks & Humber	2179	410	19	1769	81
North West	1620	274	17	1346	83
South East	2296	391	17	1905	83
South West	1682	281	17	1401	83
West Midlands	1390	242	17	1148	83
England	13401	2368	18	11033	82
England 2023/24	11630	2061	18	9569	82

Table 72: Number of nodes taken for invasive cases without SLNB or with unknown axillary procedure

Region	Total with axillary surgery	0 node obtained		1,2,3 nodes obtained		≥4nodes obtained		Unknown	
		No.	%	No.	%	No.	%	No.	%
		East Midlands	100	1	1	2	2	97	97
East of England	81	0	0	3	4	78	96	0	0
London	98	0	0	2	2	96	98	0	0
N East, Yorks & Humber	147	0	0	5	3	142	97	0	0
North West	121	2	2	14	12	105	87	0	0
South East	170	0	0	8	5	162	95	0	0
South West	91	1	1	2	2	88	97	0	0
West Midlands	117	0	0	7	6	110	94	0	0
England	925	4	0	43	5	878	95	0	0
England 2023/24	857	4	0	60	7	793	93	0	0

Table 73: Nodal status of invasive cancers with SLNB or unknown axillary procedure

Region	With SLNB				Without SLNB			
	Positive		Negative		Positive		Negative	
	No.	%	No.	%	No.	%	No.	%
East Midlands	151	13	1020	87	74	74	25	25
East of England	191	15	1123	85	70	86	12	15
London	202	14	1268	86	82	84	16	16
N East, Yorks & Humber	300	15	1730	85	110	75	39	27
North West	199	13	1301	86	75	62	45	37
South East	261	12	1865	88	130	76	40	24
South West	209	13	1383	87	72	79	18	20
West Midlands	159	12	1113	87	83	71	35	30
England	1672	13	10803	86	696	75	230	25
England 2023/24	1439	13	9329	86	622	73	240	28

Table 74: Number of nodes obtained for invasive cancers with positive nodal status determined from SLNB

Region	1-<4 nodes obtained					4+ nodes obtained				
	1 Ax op		2+ Ax ops		Total	1 Ax op		2+ Ax ops		Total
	No.	%	No.	%		No.	%	No.	%	
East Midlands	81	100	0	0	81	40	57	30	43	70
East of England	105	100	0	0	105	36	42	50	58	86
London	97	99	1	1	98	36	35	68	65	104
N East, Yorks & Humber	167	100	0	0	167	81	61	52	39	133
North West	94	99	1	1	95	49	47	55	53	104
South East	144	99	1	1	145	62	53	54	47	116
South West	134	99	1	1	135	38	51	36	49	74
West Midlands	82	100	0	0	82	30	39	47	61	77
England	904	100	4	0	908	372	49	392	51	764
England 2023/24	789	100	3	0	792	271	42	376	58	647

Table 75: Status of invasive cases with <4 nodes obtained

Region	Total with nodes obtained	Nodal status determined on basis of <4 nodes		Positive sentinel procedure(s)		Positive (Other)		Negative sentinel procedure(s)		Negative (Other)		Unknown status	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
East Midlands	1270	901	70.9	81	6.4	0	0.0	818	64	2	0.2	0	0
East of England	1396	1046	74.9	105	7.5	1	0.1	937	67	3	0.2	0	0
London	1568	1179	75.2	98	6.3	1	0.1	1079	69	1	0.1	0	0
N East, Yorks & Humber	2179	1625	74.6	167	7.7	2	0.1	1452	67	4	0.2	0	0
North West	1620	1201	74.1	95	5.9	1	0.1	1091	67	14	0.9	0	0
South East	2296	1710	74.5	145	6.3	1	0.0	1557	68	7	0.3	0	0
South West	1682	1361	80.9	135	8.0	1	0.1	1224	73	1	0.1	0	0
West Midlands	1390	1043	75.0	82	5.9	0	0.0	953	69	8	0.6	0	0
England	13401	10066	75.1	908	6.8	7	0.1	9111	68	40	0.3	0	0
England 2023/24	11630	8788	75.6	792	6.8	6	0.1	7932	68	58	0.5	0	0

Table 76: Availability of lymph node status for surgically treated non-invasive cancers

Region	Total non-invasive cancers	Nodal status known		Nodes obtained but status unknown		No nodes obtained		Unknown if nodes obtained	
		No.	%	No.	%	No.	%	No.	%
East Midlands	234	52	22	0	0	182	78	0	0
East of England	342	59	17	0	0	283	83	0	0
London	451	101	22	0	0	350	78	0	0
N East, Yorks & Humber	501	96	19	0	0	405	81	0	0
North West	389	73	19	0	0	316	81	0	0
South East	624	86	14	0	0	538	86	0	0
South West	431	55	13	0	0	376	87	0	0
West Midlands	336	67	20	0	0	269	80	0	0
England	3308	589	18	0	0	2719	82	0	0
England 2023/24	2915	558	19	0	0	2357	81	0	0

Table 77: Treatment for non-invasive cancers with known nodal status

Region	Conservation with known nodal status		Total Conservation	Mastectomy with known nodal status		Total mastectomy
	No.	%		No.	%	
East Midlands	11	6	185	41	87	47
East of England	17	6	292	42	89	47
London	19	5	351	82	82	100
N East, Yorks & Humber	19	5	410	77	86	90
North West	11	3	316	62	89	70
South East	14	3	532	72	80	90
South West	5	1	355	50	70	71
West Midlands	18	6	277	49	83	59
England	114	4	2718	475	83	574
England 2023/24	111	5	2376	447	86	519

Region	Total known nodal status	Positive		Negative	
		No.	%	No.	%
East Midlands	52	0	0	52	100
East of England	59	0	0	59	100
London	101	1	1	100	99
N East, Yorks & Humber	96	0	0	96	100
North West	73	0	0	73	100
South East	86	2	2	84	98
South West	55	0	0	55	100
West Midlands	67	0	0	67	100
England	589	3	1	586	99
England 2023/24	558	2	0	556	100

Region	With SLNB		Without SLNB								Total with mastectomy	Total known nodal status	% determined on basis of SLNB
			Ax sampling		Ax clearance		Unknown procedure		No intended Ax procedure				
	No.	%	No.	%	No.	%	No.	%	No.	%			
East Midlands	39	83	1	2	0	0.0	0	0.0	1	2.1	47	41	95
East of England	42	89	0	0	0	0.0	0	0.0	0	0.0	47	42	100
London	82	82	0	0	0	0.0	0	0.0	0	0.0	100	82	100
N East, Yorks & Humber	75	83	2	2	0	0.0	0	0.0	0	0.0	90	77	97
North West	60	86	2	3	0	0.0	0	0.0	0	0.0	70	62	97
South East	71	79	0	0	1	1.1	0	0.0	0	0.0	90	72	99
South West	50	70	0	0	0	0.0	0	0.0	0	0.0	71	50	100
West Midlands	49	83	0	0	0	0.0	0	0.0	0	0.0	59	49	100
England	468	82	5	1	1	0.2	0	0.0	1	0.2	574	475	99
England 2023/24	436	84	5	1	3	0.6	0	0	3	0.6	519	447	98

Region	With SLNB		Without SLNB								Total with BCS	Total known nodal status	% determined on basis of SLNB
			Ax sampling		Ax clearance		Unknown procedure		No intended Ax procedure				
	No.	%	No.	%	No.	%	No.	%	No.	%			
East Midlands	11	6	0	0	0	0.0	0	0.0	0	0.0	185	11	100
East of England	16	5	0	0	0	0.0	0	0.0	1	0.3	292	17	94
London	17	5	0	0	2	0.6	0	0.0	0	0.0	351	19	89
N East, Yorks & Humber	16	4	0	0	1	0.2	0	0.0	2	0.5	410	19	84
North West	11	3	0	0	0	0.0	0	0.0	0	0.0	316	11	100
South East	12	2	0	0	1	0.2	0	0.0	1	0.2	532	14	86
South West	5	1	0	0	0	0.0	0	0.0	0	0.0	355	5	100
West Midlands	17	6	0	0	0	0.0	0	0.0	1	0.4	277	18	94
England	105	4	0	0	4	0.1	0	0.0	5	0.2	2718	114	92
England 2023/24	100	4	3	0	2	0.1	0	0	6	0.3	2376	111	90

Region	Total known nodal status	Conservation			Mastectomy		
		Mean	Median	Maximum	Mean	Median	Maximum
East Midlands	52	2	1	4	3	2	8
East of England	59	2	2	5	2	2	6
London	101	3	2	17	2	2	9
N East, Yorks & Humber	96	2	1	18	3	2	10
North West	73	2	2	4	2	2	7
South East	86	4	1.5	35	3	2	7
South West	55	2	2	2	2	2	6
West Midlands	67	3	2	8	2	2	7
England	589	3	2	35	2	2	10
England 2023/24	558	2	2	12	2	2	9

Region	B5b						B5a					
	Total B5b	% had Ax	Ax in 1st op		Ax in later op		Total B5a	% had Ax	Ax in 1st op		Ax in later op	
			No.	%	No.	%			No.	%	No.	%
East Midlands	1174	100	1172	100	0	0	82	98	24	29	56	68
East of England	1367	96	1312	96	1	0	86	78	30	35	37	43
London	1497	99	1479	99	2	0	86	87	36	42	39	45
N East, Yorks & Humber	2093	99	2065	99	0	0	125	77	47	38	49	39
North West	1580	98	1541	98	2	0	81	85	36	44	33	41
South East	2188	99	2171	99	2	0	114	90	48	42	55	48
South West	1659	97	1606	97	2	0	80	83	15	19	51	64
West Midlands	1314	100	1310	100	0	0	63	97	26	41	35	56
England	12872	98	12656	98	9	0	717	86	262	37	355	50
England 2023/24	11087	99	10991	99	9	0	606	87	219	36	311	51

Region	Total node positive invasive	SLNB at 1st Ax op		No SLNB at 1st Ax op		Total with repeat Ax op	% repeat Ax op after SLNB
		No	%	No	%		
East Midlands	225	30	13	4	2	34	88
East of England	261	50	19	1	0	51	98
London	284	69	24	0	0	69	100
N East, Yorks & Humber	410	52	13	3	1	55	95
North West	274	56	20	1	0	57	98
South East	391	55	14	1	0	56	98
South West	281	37	13	0	0	37	100
West Midlands	242	47	19	1	0	48	98
England	2368	396	17	11	0	407	97
England 2023/24	2061	377	18	9	0	386	98