

S1a. Performance indicators (age-adjusted rates per 1000 screens) per calendar year for all screens (95% CI)

	Recall rate	Detection rate	Detection rate DCIS	Detection rate invasive	Interval cancer rate	Programme sensitivity	Programme specificity
2004	14.0 (13.8-14.2)	5.1 (5.0-5.3)	0.73 (0.68-0.79)	4.4 (4.3-4.5)	2.2 (2.1-2.3)	70.0% (68.9-71.2%)	99.1% (99.1-99.1%)
2005	14.5 (14.2-14.7)	5.1 (4.9-5.2)	0.74 (0.69-0.80)	4.3 (4.2-4.5)	2.1 (2.1-2.2)	69.6% (68.5-71.0%)	99.1% (99.0-99.1%)
2006	16.1 (15.9-16.4)	5.4 (5.2-5.5)	0.88 (0.82-0.94)	4.5 (4.3-4.6)	2.2 (2.1-2.3)	69.8% (68.7-70.9%)	98.9% (98.9-98.9%)
2007	18.0 (17.8-18.3)	5.7 (5.5-5.8)	0.84 (0.78-0.90)	4.8 (4.7-5.0)	2.2 (2.1-2.3)	71.4% (70.4-72.5%)	98.8% (98.7-98.8%)
2008	18.2 (18.0-18.5)	5.7 (5.6-5.9)	0.87 (0.81-0.93)	4.8 (4.7-5.0)	2.3 (2.2-2.4)	70.8% (69.8-71.9%)	98.7% (98.7-98.8%)
2009	19.1 (18.8-19.4)	5.8 (5.7-6.0)	1.02 (0.96-1.09)	4.8 (4.7-5.0)	2.2 (2.1-2.3)	72.1% (71.1-73.2%)	98.7% (98.6-98.7%)
2010	20.2 (19.9-20.5)	6.2 (6.0-6.3)	1.2 (1.08-1.22)	5.0 (4.9-5.2)	2.3 (2.2-2.4)	72.4% (71.4-73.4%)	98.6% (98.6-98.6%)
2011	21.4 (21.2-21.7)	6.3 (6.2-6.5)	1.2 (1.17-1.31)	5.1 (4.9-5.2)	2.1 (2.0-2.2)	74.4% (73.5-75.4%)	98.5% (98.5-98.5%)

S1b. Performance indicators (age-adjusted rates per 1000 screens) per calendar year for SFM (95% CI)

	Recall rate	Detection rate	Detection rate DCIS	Detection rate invasive	Interval cancer rate	Programme sensitivity	Programme specificity
2004	13.7 (13.4-13.9)	5.1 (5.0-5.3)	0.73 (0.67-0.79)	4.4 (4.3-4.5)	2.2 (2.1-2.3)	69.6% (68.5-70.8%)	99.1% (99.1-99.2%)
2005	14.1 (13.9-14.4)	5.0 (4.9-5.2)	0.75 (0.69-0.81)	4.3 (4.2-4.4)	2.1 (2.0-2.2)	69.4% (68.2-70.6%)	99.1% (99.1-99.1%)
2006	15.8 (15.6-16.1)	5.3 (5.2-5.5)	0.89 (0.83-0.95)	4.4 (4.3-4.6)	2.3 (2.2-2.4)	69.5% (68.4-70.6%)	98.9% (98.9-99.0%)
2007	17.6 (17.3-17.9)	5.6 (5.4-5.7)	0.83 (0.77-0.90)	4.7 (4.6-4.9)	2.2 (2.1-2.3)	71.0% (69.9-72.1%)	98.8% (98.8-98.8%)
2008	17.9 (17.6-18.2)	5.7 (5.5-5.8)	0.88 (0.81-0.94)	4.8 (4.6-4.9)	2.3 (2.2-2.4)	70.8% (69.7-71.9%)	98.8% (98.8-98.8%)
2009	17.5 (17.2-17.9)	5.5 (5.3-5.7)	1.00 (0.91-1.09)	4.5 (4.3-4.7)	2.2 (2.1-2.4)	70.3% (68.9-71.8%)	98.8% (98.8-98.8%)
2010	16.2 (14.8-17.7)	5.2 (4.5-6.1)	0.74 (0.49-1.1)	4.5 (3.8-5.3)	2.1 (1.6-2.6)	72.0% (66.2-77.8%)	98.9% (98.8-99.0%)
2011 ^a	-	-	-	-	-	-	-

^aIn 2011, all screens were digital. Abbreviations: screen-film mammography (SFM).

S1c. Performance indicators (age-adjusted rates per 1000 screens) per calendar year for DM (95% CI)

	Recall rate	Detection rate	Detection rate DCIS	Detection rate invasive	Interval cancer rate	Programme sensitivity	Programme specificity
2004	23.3 (21.7-25.1)	6.1 (5.3-7.0)	0.87 (0.60-1.27)	5.2 (4.5-6.1)	1.4 (1.08-1.9)	80.3% (75.2-85.4%)	98.3% (98.1-98.4%)
2005	21.4 (20.1-22.9)	5.9 (5.2-6.7)	0.64 (0.44-0.93)	5.2 (4.6-6.0)	2.2 (1.8-2.7)	72.3% (67.6-77.0%)	98.4% (98.3-98.6%)
2006	20.8 (19.6-22.2)	5.8 (5.2-6.5)	0.73 (0.52-1.01)	5.1 (4.5-5.7)	2.0 (1.6-2.4)	74.1% (69.7-78.5%)	98.5% (98.4-98.6%)
2007	22.7 (21.6-23.9)	6.9 (6.3-7.5)	0.85 (0.66-1.1)	6.0 (5.5-6.6)	2.0 (1.7-2.4)	76.2% (72.8-79.5%)	98.4% (98.3-98.5%)
2008	21.1 (20.3-22.1)	6.0 (5.5-6.5)	0.79 (0.63-0.99)	5.2 (4.8-5.7)	2.4 (2.1-2.7)	71.3% (68.2-74.3%)	98.5% (98.4-98.6%)
2009	21.0 (20.6-21.5)	6.2 (6.0-6.5)	1.1 (0.96-1.2)	5.2 (5.0-5.4)	2.1 (2.0-2.3)	74.1% (72.7-75.6%)	98.5% (98.5-98.5%)
2010	20.3 (20.0-20.6)	6.2 (6.0-6.4)	1.2 (1.09-1.2)	5.0 (4.9-5.2)	2.3 (2.2-2.4)	72.4% (71.4-73.4%)	98.6% (98.6-98.6%)
2011	21.4 (21.2-21.7)	6.3 (6.2-6.5)	1.24 (1.2-1.3)	5.1 (4.9-5.2)	2.1 (2.0-2.2)	74.4% (73.5-75.4%)	98.5% (98.5-98.5%)

Abbreviations: digital mammography (DM).

S2a. Age-specific detection rate per 1000 screens by calendar year

	2004	2005	2006	2007	2008	2009	2010	2011
49	4.98	4.91	5.27	5.50	5.92	5.95	7.16	7.04
50-54	4.18	3.84	4.11	4.17	4.35	4.51	5.26	5.01
55-59	4.47	4.23	4.38	4.65	4.67	4.79	4.99	5.23
60-64	5.43	5.41	5.76	6.05	6.01	6.25	6.49	6.83
65-69	6.16	6.31	6.79	7.11	7.20	7.38	7.19	7.78
70-74	6.69	7.14	7.25	8.15	7.82	7.68	7.91	7.87
C.I. low								
49	4.38	4.32	4.66	4.87	5.27	5.30	6.47	6.35
50-54	3.92	3.59	3.85	3.90	4.08	4.23	4.97	4.73
55-59	4.19	3.96	4.11	4.37	4.38	4.50	4.69	4.93
60-64	5.08	5.06	5.40	5.70	5.67	5.91	6.15	6.48
65-69	5.75	5.90	6.36	6.68	6.76	6.94	6.77	7.35
70-74	6.22	6.67	6.76	7.64	7.32	7.18	7.41	7.38
C.I. high								
49	5.67	5.58	5.96	6.21	6.64	6.68	7.93	7.80
50-54	4.76	4.11	4.39	4.45	4.63	4.80	5.57	5.31
55-59	5.09	4.51	4.66	4.95	4.97	5.10	5.30	5.55
60-64	6.18	5.78	6.14	6.43	6.37	6.61	6.84	7.19
65-69	7.01	6.75	7.25	7.57	7.66	7.85	7.63	8.24
70-74	7.61	7.66	7.78	8.70	8.36	8.21	8.44	8.39

Abbreviations: confidence interval (C.I.)

S2b. Age-specific interval cancer rate per 1000 screens by calendar year

	2004	2005	2006	2007	2008	2009	2010	2011
49	2.77	2.60	2.47	2.38	2.80	2.64	2.54	2.42
50-54	2.21	2.21	2.63	2.38	2.25	2.31	2.33	1.96
55-59	2.31	2.41	2.12	2.14	2.19	2.01	2.19	2.03
60-64	2.20	1.93	2.14	2.09	2.41	2.25	2.30	2.15
65-69	1.83	1.92	2.09	2.10	2.09	2.12	2.39	2.20
70-74	1.82	1.91	1.95	1.90	2.22	2.02	2.27	2.38
C.I. low								
49	2.33	2.18	2.06	1.98	2.37	2.22	2.14	2.04
50-54	2.02	2.02	2.42	2.18	2.06	2.11	2.14	1.79
55-59	2.12	2.21	1.94	1.95	1.99	1.83	2.00	1.84
60-64	1.98	1.73	1.92	1.89	2.20	2.05	2.10	1.96
65-69	1.61	1.70	1.86	1.87	1.86	1.89	2.15	1.98
70-74	1.59	1.67	1.71	1.66	1.96	1.78	2.02	2.12
C.I. high								
49	3.30	3.10	2.96	2.87	3.32	3.14	3.02	2.89
50-54	2.63	2.42	2.85	2.59	2.46	2.52	2.54	2.15
55-59	2.75	2.62	2.32	2.35	2.40	2.22	2.40	2.23
60-64	2.61	2.16	2.38	2.31	2.65	2.47	2.52	2.35
65-69	2.18	2.17	2.36	2.36	2.34	2.38	2.65	2.45
70-74	2.17	2.18	2.23	2.17	2.52	2.31	2.57	2.67

Abbreviations: confidence interval (C.I.)

s3. Age standardised interval cancer rates for all cancers, invasive cancers and in situ cancers (95% confidence interval)

	2004	2005	2006	2007	2008	2009	2010	2011
Invasive	2.07 (1.97-2.16)	2.03 (1.94-2.12)	2.13 (2.03-2.22)	2.05 (1.96-2.14)	2.12 (2.03-2.21)	2.07 (1.98-2.17)	2.18 (2.09-2.27)	2.01 (1.93-2.10)
DCIS	0.09 (0.07-0.11)	0.12 (0.10-0.14)	0.11 (0.09-0.14)	0.12 (0.10-0.14)	0.15 (0.13-0.18)	0.11 (0.09-0.13)	0.14 (0.11-0.16)	0.12 (0.10-0.14)
Overall	2.16 (2.06-2.25)	2.14 (2.05-2.24)	2.24 (2.14-2.34)	2.16 (2.07-2.26)	2.27 (2.17-2.37)	2.18 (2.09-2.28)	2.31 (2.21-2.40)	2.13 (2.04-2.22)

S4. Age-specific programme sensitivity of all screens (based on first two years after a screen)

	2004	2005	2006	2007	2008	2009	2010	2011
49	64.2%	65.4%	68.1%	69.8%	67.8%	69.3%	73.8%	74.4%
50-54	65.4%	63.4%	61.0%	63.6%	65.9%	66.1%	69.3%	71.8%
55-59	65.9%	63.7%	67.3%	68.5%	68.1%	70.4%	69.4%	72.1%
60-64	71.2%	73.7%	72.9%	74.4%	71.3%	73.6%	73.8%	76.1%
65-69	77.1%	76.7%	76.4%	77.2%	77.5%	77.7%	75.1%	78.0%
70-74	78.6%	78.9%	78.8%	81.1%	77.9%	79.1%	77.7%	76.8%
C.I. low								
49	59.3%	60.5%	63.4%	65.1%	63.4%	64.9%	69.9%	70.5%
50-54	62.9%	60.8%	58.5%	61.1%	63.4%	63.7%	67.1%	69.6%
55-59	63.5%	61.3%	64.9%	66.1%	65.7%	68.0%	67.1%	69.9%
60-64	68.6%	71.2%	70.5%	72.1%	69.1%	71.4%	71.8%	74.2%
65-69	74.5%	74.2%	74.0%	74.9%	75.2%	75.4%	72.8%	75.9%
70-74	76.0%	76.4%	76.3%	78.8%	75.4%	76.7%	75.3%	74.4%
C.I. high								
49	69.2%	70.3%	72.8%	74.4%	72.3%	73.7%	77.7%	78.2%
50-54	67.9%	66.0%	63.5%	66.1%	68.3%	68.5%	71.5%	74.0%
55-59	68.3%	66.2%	69.8%	70.9%	70.5%	72.8%	71.8%	74.3%
60-64	73.8%	76.2%	75.4%	76.6%	73.5%	75.7%	75.8%	78.0%
65-69	79.6%	79.2%	78.9%	79.5%	79.8%	79.9%	77.3%	80.0%
70-74	81.2%	81.4%	81.3%	83.4%	80.3%	81.6%	80.0%	79.1%

Abbreviations: confidence interval (C.I.)

S5. Age-adjusted results for all, DM and SFM between 2004 and 2011 for women aged 49-51

	All (95% C.I.)	DM (95% C.I.)	SFM (95% C.I.)
No. screens	777908	273266	504642
No. screen-detected cancers	4667	1920	2747
No. interval cancers	1936	648	1288
No. false-positives	23682	10762	12920
Recall rate	33.6 (33.2-34.0)	47.7 (46.9-48.6)	31.9 (31.4-32.4)
False positive rate	27.7 (27.3-28.1)	40.4 (39.9-40.9)	26.3 (25.9-26.8)
Detection rate (all)	5.9 (5.7-6.1)	7.3 (6.97-7.61)	5.7 (5.5-5.9)
Detection rate DCIS	1.1 (1.03-1.2)	1.9 (1.81-2.00)	1.2 (1.1-1.3)
Detection rate invasive	4.8 (4.7-5.0)	5.4 (5.2-5.6)	4.5 (4.3-4.7)
Interval cancer rate	2.5 (2.4-2.7)	2.3 (2.2-2.4)	2.6 (2.5-2.8)
Programme sensitivity (%)	69.7 (68.6-70.8)	76.3 (74.6-77.9)	68.5 (67.1-70.0)
Programme specificity (%)	97.2 (97.2-97.2)	95.9 (95.8-96.0)	97.4 (97.3-97.4)
Positive predictive value (%)	16.5 (16.2-16.8)	15.1 (14.9-15.4)	17.5 (17.2-17.8)

Rates are presented per 1000 screens