

Breast Screening Programme, England: 1997-98

This bulletin summarises information from the computerised call and recall system for breast cancer screening and from breast screening units in England in 1997-98, including some information about earlier years.

KEY FACTS

At 31 March 1998:

- 66.4% of women aged 50-64 resident in England had been screened at least once in the previous 3 years (65.6% at 31 March 1997); for women aged 55-64, coverage improved from 72.2% to 73.1%.
- In 86 of the 100 Health Authorities the coverage was 60% or higher; in only 4 Health Authorities was the coverage less than 50% (5 Health Authorities at 31 March 1997).

In 1997-98:

- 75% of women aged 50-64 invited for screening were screened.
- 1.2 million women of all ages were screened within the programme.
- 6,914 cases of cancer were diagnosed in women screened.

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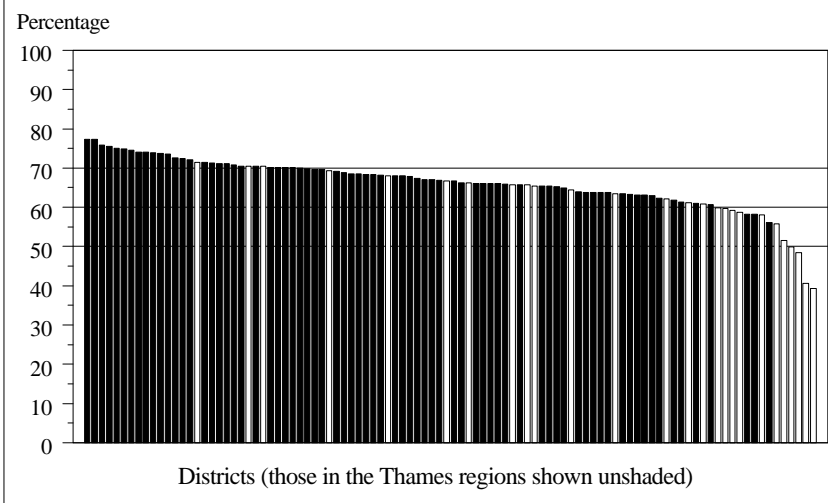
1 INTRODUCTION

1.1 The information in this publication, about the breast cancer screening programme in England, is collected on two Department of Health returns. Information from screening units about the operation and outcomes of the call and recall system is collected on return KC62; and information from Health Authorities about the population coverage of the programme is collected on return KC63.

1.2 This is the fourth bulletin to be published on breast cancer screening including data from both the KC62 and KC63 returns. Annual summaries of information from the KC62 were produced from 1988-89 to 1993-94.

1.3 KC63 returns were received from all of the 100 Health Authorities (HAs). KC62 returns were received from all 84 screening units.

Figure 1 Breast screening programme : coverage at 31 March 1998 by Health Authority, England



2 ANALYSIS AND COMMENTARY

2.1 Overview

2.1.1 Reported coverage of the screening programme increased slightly from 65.6% at 31 March 1997 to 66.4% at 31 March 1998. The number of Health Authorities whose overall coverage was below 50% fell from 5 in 1997 to 4 in 1998. Uptake during 1997-98 was

75.4%, slightly lower than the 75.5% recorded in 1996-97 but substantially higher than the 72% or so recorded in 1991-92 to 1993-94 (Table A).

2.2 Coverage (Tables 1, 2 & 12)

2.2.1 The reported coverage by the screening programme at 31 March 1998 of women aged 50-64 was 66.4%. Coverage among women aged 55-64 was about 73.1%, up from 72.2% in 1997, and the relatively low figure (56%) for women aged 50-54 is probably at least partly due to the procedure of calling women for the first time between their 50th and 53rd birthdays, so that the average age at first screen is about 51½.

2.2.2 Coverage of the target age group 50-64 varied considerably between Regional Offices (ROs), from 60% in North Thames to almost 71% in Anglia and Oxford. At HA level, over one quarter of authorities reported coverage higher than 70% and over half reported coverage between 60% and 70%. In only 4 of the 100 HAs was coverage below 50%; all of these HAs were in the Thames regions (Figure 1).

Table A Breast screening programme : coverage and uptake 1991-92 to 1997-98

England	percentages	
	Coverage at end of year	Uptake during the year
1991-92	..	71.6
1992-93	..	71.8
1993-94	..	72.1
1994-95	63.9	77.4
1995-96	65.4	76.2
1996-97	65.6	75.5
1997-98	66.4	75.4

.. Data not available

2.3 Uptake of invitations for screening (Tables 3, 4 & 13)

2.3.1 About 1.36 million women in the target age group were invited for screening in 1997-98. For about 25% this was their first ever invitation; for about 13% it was a second or subsequent invitation to women who had not previously attended for screening and for about 62% it was a routine recall. Under 1% of invitations were early recalls: women whose screening outcome indicated that monitoring at less than the routine 3-year screening interval was desirable.

2.3.2 Overall, 75.4% of target age group women invited in 1997-98 were screened. Regionally, the percentage uptake ranged from under 70% in the North Thames RO to over 80% in Trent RO (Figure 2). Of the 84 screening units, 26 recorded uptake rates of 80% or over and a further 48 recorded rates between 70% and 80%.

2.3.3 Uptake rates varied considerably according to the type of invitation. About 73% of

women receiving their first invitation in 1997-98 were screened; and about 90% of women who had already been screened in a previous round and received a routine invitation to be screened again were screened. Of women who received a routine invitation, having failed to respond to a previous invitation, as many as 23% responded and were screened.

2.4 Outcome of screening (Tables 5, 6 & 7)

2.4.1 Almost 1.2 million women were screened in 1997-98. The vast majority were women in the target age group screened following an invitation. In addition, some 82,000 women were screened following self-referral or referral by a GP. Of the total number screened, about 4% were aged between 45 and 49 and a further 6% were aged 65 or over.

2.4.2 Of the women screened, 5% were referred for assessment; the rates for women attending for the first time (in

the prevalent round) and those attending who had been previously screened (in the incident round) were markedly different. About 7.7% of women in the prevalent round were referred for assessment, compared with only 3.7% of women in the incident round. For women in the prevalent round, almost 1 in 3 were referred for cytology and/or core biopsy and 1 in 15 were referred for open biopsy; early recall was recommended for about 1 in 10 women referred for assessment. For women in the incident round, 1 in 4 were referred for cytology and/or core biopsy and 1 in 17 were referred for open biopsy; early recall was recommended for about 1 in 14 women referred for assessment. Of women screened following a previous recommendation for early recall and referred for assessment, almost 16% were again recommended for early recall.

2.5 Cancers detected (Tables 8, 9, 10 & 11)

2.5.1 A total of 6,914 cancers (including invasive and in situ) were detected by the screening programme in 1997-98, a rate of 5.9 per 1,000 women screened. The rate is higher than in previous years, due to continued quality improvements in the screening programme. It is known that the incidence of breast cancer rises with age and this pattern was observed with cancers detected by the screening programme. The detection rate was lowest (4.8 per 1,000) for women aged 45-49 and was higher for older age groups, reaching 6.1 per 1,000 for women aged 60-64. The rate for women aged 65 or over was much higher (10.9 per 1,000).

2.5.2 The cancer detection rate varied by type of invitation as well as by age. The quite different age structure of women in the

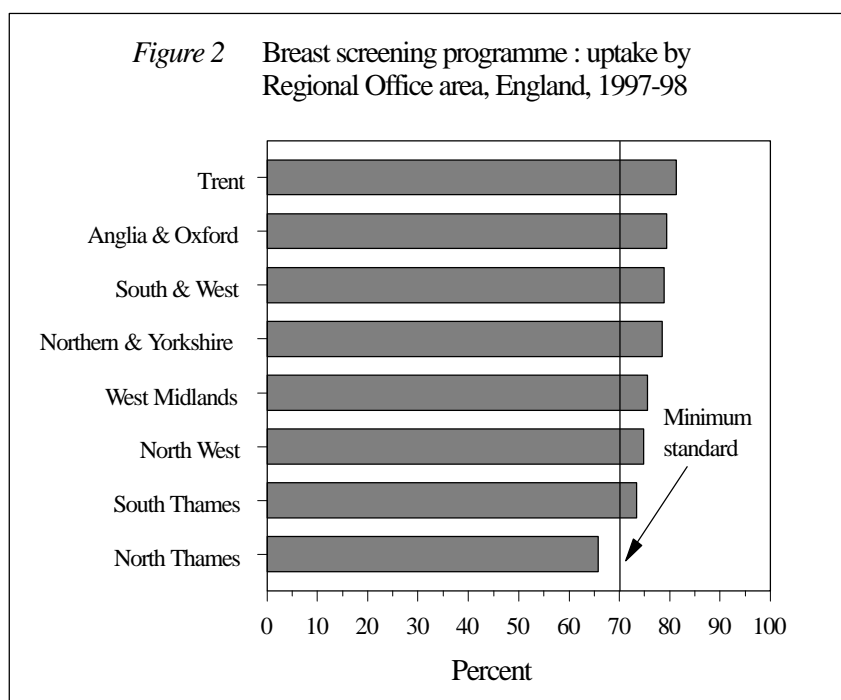


Table B

Breast screening programme : cancer detection rate by age and type of invitation, 1997-98

England rate per 1000 women screened

Type of invitation	All ages 45 and over	45-49	50-54	55-59	60-64	65 +
Total	6	5	5	5	6	11
1st invitation for routine screening	6	5	6	10	8	(14)
Routine invitation to previous non-attenders	9	·	7	9	13	(18)
Routine invitation to previous attenders (Last screen within 5 years)	5	·	4	5	6	8
Routine invitation to previous attenders (Last screen more than 5 years previously)	7	·	4	6	7	9
Early recalls	36	·	24	(39)	(53)	(54)
Self / GP referral (no previous screen)	12	(3)	6	9	10	18
Self / GP referral (within 5 yrs)	8	·	5	6	4	9
Self / GP referral (> 5 yrs)	14	·	(27)	(10)	(14)	15

Rates shown in brackets are based on fewer than 2000 women screened

Source : Form KC62

· not applicable (see Table 5)

different invitation type groups makes direct comparison difficult. It is clear that the highest detection rate was for women screened after early recall, regardless of age. Detection rates in the prevalent round (for women not previously screened, whether after their first ever invitation or after having not attended in response to an earlier invitation), were higher than rates in the incident round (for women having their second or subsequent routine screen); (Table B).

2.5.3 Of the cancers detected 1,463 (21%) were non-invasive or micro-invasive and a further 2,839 (41%) were small ie less than 15mm. The distribution of cancers by size was much the same for each age group.

3 DEFINITIONS

3.1 The *coverage* of the screening programme is the

proportion of women resident (excluding those ineligible eg those who have had a double mastectomy) who have had a test with a recorded result at least once in the previous 3 years.

3.2 The *uptake* of the screening programme is the proportion of women invited for screening for whom a screening test result is recorded.

3.3 *Prevalent* screening is that of women being screened for the first time within the breast screening programme.

3.4 *Incident* screening is that of women previously screened within the breast screening programme.

3.5 The breast screening programme is open to women aged 50-64 routinely and to women aged 65 and over on request. The data include also some women aged 45-49. The vast majority of these are

women aged 49 who have been called for their first routine screening a few months early, but some are participating in the trial for screening women under 50.

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Table 1

Breast screening programme : test status of women
and coverage by age, 31 March 1999

England					thousands
Age at test	Number of women resident	Number ineligible	Number of women less than 3 years since last test	Coverage (less than 3 years since last test) (%)	
50-64	4,170.8	12.5	2,762.0	66.4	
45-49	1,641.5	0.3	25.1	1.5	
50-54	1,665.8	3.2	937.7	56.4	
55-59	1,297.8	4.2	953.9	73.7	
60-64	1,207.2	5.1	870.4	72.4	
65 and over	4,651.2	14.0	391.4	8.4	

Source : Form KC63

Table 2

Breast screening programme : test status and coverage
of target age group (50-64) by region, 31 March 1998

					thousands
	Number of women resident	Number ineligible	Number of women less than 3 years since last test	Coverage (less than 3 years since last test) (%)	
England	4,170.8	12.5	2,762.0	66.4	
Regional Office area					
Northern & Yorkshire	537.7	1.2	360.5	67.2	
Trent	439.2	2.4	303.8	69.5	
Anglia & Oxford	453.8	0.9	321.0	70.9	
North Thames	560.5	2.2	335.1	60.0	
South Thames	573.2	1.6	366.9	64.2	
South & West	589.3	2.6	389.6	66.4	
West Midlands	456.2	0.8	314.4	69.1	
North West	561.0	0.8	370.8	66.2	

Source : Form KC63

Table 3 Breast screening programme : estimated uptake of invitations to scre⁽¹⁾.
by women aged 50-64 by region, 1991-92 to 1997-98

	percentages						
	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
England	71.6	71.8	72.1	77.4	76.2	75.5	75.4
Regional Office area							
Northern & Yorkshire	74	73	73	80	77	77	79
Trent	78	78	78	80	81	81	81
Anglia & Oxford	79	78	76	83	82	82	79
North Thames	59	61	60	68	66	65	66
South Thames	69	69	69	72	74	71	73
South & West	77	77	75	81	79	79	79
West Midlands	72	70	72	79	78	76	76
North West	71	74	74	78	77	77	75

⁽¹⁾ First invitations, routine invitations and early recall invitations

Source : Form KC62

Table 3a Breast screening programme : estimated uptake of invitations to screen
by women aged 50-64 by type of invitation and region, 1997-98

	percentages							
	Invitation type					Invitation type grouping		
	First invitation for screening	Routine invitation (previous non-attender)	Routine invitation (within 5 yrs)	Routine invitation (more than 5 yrs)	Early recall invitations	First & routine invitation (within 5 yrs)	First & all routine invitations	First, ⁽¹⁾ routine and early recall invitations
England	73.1	22.7	89.9	52.2	96.5	84.8	75.3	75.4
Regional Office area								
Northern & Yorkshire	78.3	21.1	91.3	54.0	91.7	87.7	78.4	78.5
Trent	80.0	23.1	92.0	56.3	97.0	88.8	81.3	81.3
Anglia & Oxford	78.3	20.0	91.9	44.1	98.8	87.8	79.3	79.4
North Thames	61.9	20.8	85.1	53.0	97.0	77.0	65.6	65.7
South Thames	69.3	27.4	89.0	58.3	97.4	82.4	73.2	73.4
South & West	76.9	26.1	90.4	59.6	97.1	86.3	78.8	78.9
West Midlands	73.9	20.9	89.9	53.2	98.7	85.5	75.5	75.6
North West	73.3	21.5	90.4	42.9	98.7	85.5	74.7	74.8

⁽¹⁾ This is the grouping used in Table 3 above

Source : Form KC62

Table 4

Breast screening programme : number of women invited and estimated uptake of invitations to screen, by age and type of invitation, 1997-98

England

Type of invitation	All ages 45 & over	Target Age Group 50-64	Age				
			45-49	50-54	55-59	60-64	65 & over
Numbers							
Total number of women invited	1,457,830	1,366,872	59,102	553,514	423,912	389,446	31,856
1st invitation for routine screening	391,462	339,162	51,169	315,862	12,809	10,491	1,131
Routine invitation to previous non-attenders	176,651	170,261	1,233	49,230	63,935	57,096	5,157
Routine invitation to previous attenders (Last screen within 5 years)	803,652	779,210	6,290	179,383	313,991	285,836	18,152
Routine invitation to previous attenders (Last screen more than 5 years previously)	78,930	71,993	320	5,644	31,646	34,703	6,617
Early recalls	7,135	6,246	90	3,395	1,531	1,320	799
Uptake (percentage screened of women invited)							
Total	75.3	75.4	74.7	76.1	75.6	74.1	72.7
1st invitation for routine screening	73.3	73.1	75.6	75.5	42.4	37.9	50.6
Routine invitation to previous non-attenders	22.5	22.7	14.9	33.8	21.1	14.9	18.6
Routine invitation to previous attenders (Last screen within 5 years)	89.8	89.9	80.5	89.3	90.1	90.1	88.2
Routine invitation to previous attenders (Last screen more than 5 years previously)	53.8	52.2	31.6	50.5	54.9	49.9	73.2
Early recalls	96.2	96.5	96.7	97.6	96.1	94.2	94.4

Source : Form KC62

Table 5 Breast screening programme : number of women screened by age and type of invitation, 1997-98

England		thousands					
Type of invitation	All ages 45 & over screened	Target Age Group 50-64 screened	Age				
			45-49	50-54	55-59	60-64	65 & over
Total	1,179.7	1,060.4	44.5	432.3	329.9	298.2	74.7
1st invitation for routine screening	287.1	247.8	38.7	238.4	5.4	4.0	0.6
Routine invitation to previous non-attenders	39.8	38.7	. (1)	16.6	13.5	8.5	1.0
Routine invitation to previous attenders (Last screen within 5 years)	721.7	700.6	. (1)	160.2	282.9	257.5	16.0
Routine invitation to previous attenders (Last screen more than 5 years previously)	42.5	37.5	. (1)	2.9	17.4	17.3	4.8
Early recalls	6.9	6.0	. (1)	3.3	1.5	1.2	0.8
Self / GP referral (no previous screen)	22.6	13.7	0.3	8.2	3.2	2.4	8.6
Self / GP referral (within 5 yrs)	49.7	14.6	. (1)	2.6	5.4	6.5	35.0
Self / GP referral (> 5 yrs)	9.4	1.4	. (1)	0.0	0.7	0.7	8.0

(1) A small number of women recorded in these categories may have been participating in trial schemes

Source : Form KC62

Table 6

Breast screening programme : women aged 45 and over screened by type of invitation and outcome, 1997-98

England

Type of invitation	Number of women screened	Referred for assessment ⁽¹⁾		Referred for cytology and/or core biopsy (number) ⁽²⁾	Referred for open biopsy (number)	Early Recall ⁽³⁾	
		(number)	%			(number)	%
Total	1,179,658	63,458	5.4	17,166	4,068	5,922	0.5
1st invitation for routine screening	287,113	22,161	7.7	6,761	1,524	2,323	0.8
Routine invitation to previous non-attenders	39,803	3,025	7.6	1,098	230	360	0.9
Routine invitation to previous attenders (Last screen within 5 years)	721,695	26,569	3.7	6,637	1,547	1,841	0.3
Routine invitation to previous attenders (Last screen more than 5 years previously)	42,490	1,905	4.5	553	133	137	0.3
Early recalls	6,867	5,219	76.0	721	269	813	11.8
Self / GP referral (no previous screen)	22,618	1,750	7.7	548	141	237	1.0
Self / GP referral (within 5 yrs)	49,685	2,305	4.6	640	185	180	0.4
Self / GP referral (> 5 yrs)	9,387	524	5.6	208	39	31	0.3

(1) Including women subsequently referred for cytology, core biopsy or open biopsy

Source : Form KC62

(2) Including women subsequently referred for open biopsy

(3) Including all women whose final outcome was early recall, whether after initial screen, assessment, cytology or biopsy (core or open)

Table 6a

Breast screening programme : women aged 50-64 screened by type of invitation and outcome, 1997-98

England

Type of invitation	Number of women screened	Referred for assessment ⁽¹⁾		Referred for cytology and/or core biopsy (number) ⁽²⁾	Referred for open biopsy (number)	Early Recall ⁽³⁾	
		(number)	%			(number)	%
Total	1,060,422	56,128	5.3	14,944	3,557	5,083	0.5
1st invitation for routine screening	247,840	19,094	7.7	5,872	1,328	1,983	0.8
Routine invitation to previous non-attenders	38,660	2,954	7.6	1,065	223	352	0.9
Routine invitation to previous attenders Last screen within 5 years	700,615	25,819	3.7	6,423	1,499	1,789	0.3
Routine invitation to previous attenders Last screen more than 5 years previously	37,546	1,706	4.5	478	120	123	0.3
Early recalls	6,026	4,695	77.9	638	244	659	10.9
Self GP referral (no previous screen)	13,722	1,005	7.3	265	74	102	0.7
Self GP referral (within 5 yrs)	14,591	765	5.2	175	62	71	0.5
Self GP referral (> 5 yrs)	1,422	90	6.3	28	7	4	0.3

(1) Including women subsequently referred for cytology, core biopsy or open biopsy

Source : Form KC62

(2) Including women subsequently referred for open biopsy

(3) Including all women whose final outcome was early recall, whether after initial screen, assessment, cytology or biopsy (core or open)

Table 7

Breast screening programme : women aged 45 and over screened by region and outcome, 1997-98

England

	Number of women screened	Referred for assessment ⁽¹⁾		Referred for cytology and/or core biopsy (number)	Referred for open biopsy (number)	Early Recall ⁽³⁾	
		(number)	%			(number)	%
England	1,179,658	63,458	5.4	17,166	4,068	5,922	0.5
Regional Office area							
Northern & Yorkshire	154,337	8,523	5.5	2,845	449	1,171	0.8
Trent	121,278	5,367	4.4	1,640	306	211	0.2
Anglia & Oxford	135,693	7,251	5.3	1,793	404	637	0.5
North Thames	159,434	8,654	5.4	3,022	637	1,142	0.7
South Thames	172,730	10,723	6.2	2,661	529	1,185	0.7
South & West	162,066	9,508	5.9	2,283	754	694	0.4
West Midlands	128,687	4,662	3.6	1,159	390	188	0.1
North West	145,433	8,770	6.0	1,763	599	694	0.5

(1) Including women subsequently referred for cytology, core biopsy or open biopsy

Source : Form KC62

(2) Including women subsequently referred for open biopsy

(3) Including all women whose final outcome was early recall, whether after initial screen, assessment, cytology or biopsy (core or open)

Table 7a

Breast screening programme : women aged 50-64 screened by region and outcome, 1997-98

England

	Number of women screened	Referred for assessment ⁽¹⁾		Referred for cytology and/or core biopsy (number)	Referred for open biopsy (number)	Early Recall ⁽³⁾	
		(number)	%			(number)	%
England	1,060,422	56,128	5.3	14,944	3,557	5,083	0.5
Regional Office area							
Northern & Yorkshire	138,305	7,536	5.4	2,475	394	959	0.7
Trent	107,603	4,719	4.4	1,410	268	192	0.2
Anglia & Oxford	121,764	6,450	5.3	1,552	356	553	0.5
North Thames	145,526	7,684	5.3	2,634	552	964	0.7
South Thames	150,039	9,213	6.1	2,255	457	1,016	0.7
South & West	144,965	8,390	5.8	2,011	653	623	0.4
West Midlands	118,891	4,236	3.6	1,036	348	169	0.1
North West	133,329	7,900	5.9	1,571	529	607	0.5

(1) Including women subsequently referred for cytology, core biopsy or open biopsy

Source : Form KC62

(2) Including women subsequently referred for open biopsy

(3) Including all women whose final outcome was early recall, whether after initial screen, assessment, cytology or biopsy (core or open)

Table 8 Breast screening programme : women screened and cancers detected by age, 1997-98

England

Age	Number of women screened (thousands)	Cancers detected					
		Number			Rate per 1,000 women screened		
		Total number of women with cancer	Non - invasive or micro - invasive	Small (<15mm)	Total	Non - invasive or micro - invasive	Small (<15mm)
Total	1,179.7	6,914	1,463	2,839	5.9	1.2	2.4
50-64	1,060.4	5,889	1,290	2,419	5.6	1.2	2.3
45-49	44.5	213	47	87	4.8	1.1	2.0
50-54	432.3	2,345	554	908	5.4	1.3	2.1
55-59	329.9	1,734	384	713	5.3	1.2	2.2
60-64	298.2	1,810	352	798	6.1	1.2	2.7
65 and over	74.7	812	126	333	10.9	1.7	4.5

Source : Form KC62

Table 9 Breast screening programme : women aged 45 and over screened and cancers detected by type of invitation, 1997-98

England

Type of invitation	Number of women screened (thousands)	Cancers detected					
		Number			Rate per 1,000 women screened		
		Total number of women with cancer	Non - invasive or micro - invasive	Small (<15mm)	Total	Non - invasive or micro - invasive	Small (<15mm)
Total	1,179.7	6,914	1,463	2,839	5.9	1.2	2.4
1st invitation	287.1	1,771	432	658	6.2	1.5	2.3
1st screen - previous non responder	39.8	366	69	137	9.2	1.7	3.4
Routine rescreen (within 5 yrs)	721.7	3,476	701	1,528	4.8	1.0	2.1
Routine rescreen (>5 yrs)	42.5	278	53	113	6.5	1.2	2.7
Early recall	6.9	244	72	118	35.5	10.5	17.2
Self / GP referral (no previous screen)	22.6	261	41	97	11.5	1.8	4.3
Self / GP referral (within 5 yrs)	49.7	382	72	141	7.7	1.4	2.8
Self / GP referral (>5 yrs)	9.4	136	23	47	14.5	2.5	5.0

Source : Form KC62

Table 10 Breast screening programme : women aged 45 and over screened and cancers detected by region, 1997-98

	Number of women screened (thousands)	Cancers detected					
		Number			Rate per 1,000 women screened		
		Total number of women with cancer	Non - invasive or micro - invasive	Small (<15mm)	Total	Non - invasive or micro - invasive	Small (<15mm)
England	1,179.7	6,914	1,463	2,839	5.9	1.2	2.4
Regional Office area							
Northern & Yorkshire	154.3	895	181	399	5.8	1.2	2.6
Trent	121.3	660	135	269	5.4	1.1	2.2
Anglia & Oxford	135.7	819	182	339	6.0	1.3	2.5
North Thames	159.4	987	245	379	6.2	1.5	2.4
South Thames	172.7	1,097	235	461	6.4	1.4	2.7
South & West	162.1	995	216	398	6.1	1.3	2.5
West Midlands	128.7	653	102	267	5.1	0.8	2.1
North West	145.4	808	167	327	5.6	1.1	2.2

Source : Form KC62

Table 10a Breast screening programme : women aged 50-64 screened and cancers detected by region, 1997-98

	Number of women screened (thousands)	Cancers detected					
		Number			Rate per 1,000 women screened		
		Total number of women with cancer	Non - invasive or micro - invasive	Small (<15mm)	Total	Non - invasive or micro - invasive	Small (<15mm)
England	1,060.4	5,889	1,290	2,419	5.6	1.2	2.3
Regional Office area							
Northern & Yorkshire	138.3	756	155	348	5.5	1.1	2.5
Trent	107.6	540	120	218	5.0	1.1	2.0
Anglia & Oxford	121.8	687	162	280	5.6	1.3	2.3
North Thames	145.5	837	212	326	5.8	1.5	2.2
South Thames	150.0	922	214	381	6.1	1.4	2.5
South & West	145.0	847	187	340	5.8	1.3	2.3
West Midlands	118.9	586	93	247	4.9	0.8	2.1
North West	133.3	714	147	279	5.4	1.1	2.1

Source : Form KC62

Table 11

Breast screening programme : women aged 45 and over, with cancer diagnosed, by size of cancer and age, 1997-98

England		numbers					
Size of cancer	All ages 45 & over	Target ages 50-64	Age				
			45-49	50-54	55-59	60-64	65 & over
All cancers	6,914	5,889	213	2,345	1,734	1,810	812
Invasive status not known	70	51	0	17	18	16	19
Non-invasive or possibly micro-invasive	1,351	1,184	47	515	350	319	120
Definitely micro-invasive	112	106	0	39	34	33	6
Invasive total	5,381	4,548	166	1,774	1,332	1,442	667
Small (less than 15mm) total	2,839	2,419	87	908	713	798	333
per 1,000 women screened	2.4	2.3	2.0	2.1	2.2	2.7	4.5
as a percentage of total invasive	53	53	52	51	54	55	50
Less than 10mm	1,318	1,131	36	432	337	362	151
Greater than or equal to 10mm and less than 15mm	1,521	1,288	51	476	376	436	182
Greater than or equal to 15mm and less than 20mm	1,099	932	31	373	272	287	136
Greater than or equal to 20mm and less than 50mm	1,275	1,068	37	443	305	320	170
Greater than or equal to 50mm	95	76	8	32	22	22	11
Size not known	73	53	3	18	20	15	17

Source : Form KC62

Table 12

Breast screening programme : coverage of the target age group (50-64) by health authority at 31 March, 1995, 1996, 1997 and 1998

Health Authority Code	Health Authority Name	1995		1996		1997		1998	
		Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)	Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)	Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)	Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)
	England	3,842.2	63.9	3,860.6	65.4	4,025.5	65.6	4,158.3	66.4
	Northern & Yorkshire	515.8	68.3	503.4	68.9	520.5	67.3	536.5	67.2
QDD	Bradford	35.3	62.2	35.2	58.8	35.9	59.3	36.6	65.4
QDE	County Durham	50.4	66.4	50.7	70.2	52.2	68.0	53.6	69.2
QDF	East Riding	41.6	68.6	41.8	69.2	46.6	69.4	48.8	63.9
QDG	Gateshead & South Tyneside	29.8	68.1	29.7	70.9	29.9	72.8	30.3	70.2
QDH	Leeds	54.6	64.5	54.5	63.6	55.9	59.6	57.2	62.3
QDJ	Newcastle & North Tyneside	36.0	69.1	35.6	73.3	36.1	70.4	37.5	68.2
QDK	North Cumbria	42.0	72.9	27.3	71.4	28.0	64.8	28.9	61.1
QDM	Northumberland	26.8	76.1	27.1	77.0	27.9	79.3	28.9	74.8
QDN	Sunderland	23.5	69.3	23.3	67.9	23.8	69.9	24.2	74.1
QDP	Tees	44.9	68.5	44.6	69.1	45.4	67.2	46.4	66.2
QDQ	Wakefield	25.5	68.6	25.7	66.5	26.6	68.9	27.3	68.0
QDR	North Yorkshire	60.7	72.1	62.8	74.3	65.5	71.7	68.4	70.8
QDT	Calderdale & Kirklees	44.7	64.6	45.2	64.6	46.8	59.6	48.5	63.8
	Trent	413.1	64.6	400.8	70.2	418.1	70.8	436.9	69.5
QCG	Barnsley	18.6	76.9	18.6	78.3	19.1	76.4	19.5	75.9
QCH	North Derbyshire	31.9	61.0	28.8	62.3	28.8	62.3	34.5	56.2
QCJ	South Derbyshire	43.8	68.6	36.4	71.5	45.3	75.2	46.8	75.0
QCK	Doncaster	23.6	62.0	23.6	70.5	24.2	66.1	24.9	68.3
QCL	Leicestershire	69.5	66.0	70.3	67.8	72.5	70.3	74.8	70.4
QCM	Lincolnshire	54.0	69.0	54.6	75.4	56.4	69.9	59.0	65.9
QCN	North Nottinghamshire	33.3	51.1	31.9	66.4	34.6	79.8	35.7	77.3
QCP	Nottingham	48.2	51.3	45.8	68.6	49.2	69.7	50.4	70.1
QCQ	Rotherham	20.8	69.5	20.8	70.7	21.4	63.8	22.2	66.0
QCR	Sheffield	39.9	72.6	40.1	72.8	40.7	73.7	41.8	74.1
QDL	South Humber	29.5	68.7	29.7	69.6	25.9	67.4	27.2	63.8
	Anglia & Oxford	379.6	70.6	397.1	70.2	434.3	70.1	452.9	70.9
QA6	Bedfordshire	41.6	64.9	42.2	65.7	43.7	59.7	45.2	63.3
QA7	Berkshire	36.6	70.4	58.3	71.8	60.4	70.7	62.5	71.2
QA8	Buckinghamshire	47.7	76.6	48.8	78.4	55.0	77.3	57.4	77.3
QA9	Cambridge & Huntingdon	31.1	75.5	32.3	67.9	33.9	68.4	36.1	66.0
QCA	East Norfolk	51.9	70.5	52.8	65.3	55.3	65.4	57.6	70.5
QCC	Northamptonshire	44.8	74.8	45.0	75.5	48.6	75.0	51.0	73.6
QCD	North West Anglia	32.5	68.9	19.1	68.2	34.6	69.6	36.1	74.6
QCE	Oxfordshire	41.3	70.3	45.6	67.6	47.4	66.8	49.1	66.1
QCF	Suffolk	52.0	64.7	53.0	69.0	55.4	74.9	58.0	72.6
	North Thames	528.1	54.6	531.4	55.3	544.4	57.0	558.3	60.0
QA2	Hillingdon	18.2	55.4	18.4	55.6	18.6	56.1	19.1	61.2
QA3	Kensington Chelsea & Westminster	25.3	26.6	24.5	32.7	24.5	36.6	25.4	39.3
QA4	Enfield & Haringey	38.6	49.0	38.8	53.5	39.2	57.3	39.7	59.3
QA5	Redbridge & Waltham Forest	33.0	59.5	33.1	57.1	34.2	61.8	35.2	60.9
QAP	Barking & Havering	30.3	64.6	30.1	64.3	30.7	66.7	31.2	68.0
QAQ	Barnet	22.6	42.2	24.3	42.8	24.7	56.2	25.3	55.8
QAR	Brent & Harrow	37.9	45.8	38.1	53.3	38.2	57.7	39.0	58.1
QAT	Camden & Islington	26.9	41.1	27.0	42.4	27.4	47.1	27.6	40.6
QAV	Ealing Hammersmith & Hounslow	50.5	45.4	49.7	44.0	50.2	44.1	50.8	51.6
QAW	East London & The City	38.1	45.4	38.1	47.7	38.0	47.2	37.9	48.4
QAX	North Essex	70.5	66.9	72.2	68.6	75.7	66.3	79.5	70.4
QAY	South Essex	56.0	65.1	56.9	65.4	59.1	64.0	61.4	65.7
QEP	East & North Hertfordshire	40.1	64.8	39.4	63.1	41.8	64.2	43.0	66.2
QEQ	West Hertfordshire	40.3	63.9	40.8	56.2	42.1	59.1	43.1	69.3

Note: Health Authority boundaries changed between 1996 and 1997 therefore comparisons between 1997 and earlier years may not be exact

continued

Table 12 Breast screening programme : coverage of the target age group (50-64) by health authority at 31 March, 1995, 1996, 1997 and 1998

Health Authority Code	Health Authority Name	1995		1996		1997		1998	
		Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)	Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)	Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)	Eligible ⁽¹⁾ Population (thousands)	Coverage (less than 3 yrs since last test) (%)
	England	3,842.2	63.9	3,860.6	65.4	4,025.5	65.6	4,158.3	66.4
	South Thames	529.3	57.9	536.6	60.1	555.2	61.0	571.6	64.2
QAA	Bexley & Greenwich	32.6	60.2	33.0	54.3	33.8	57.1	34.7	62.2
QAC	Bromley	25.1	64.7	23.3	66.7	25.9	64.7	26.6	65.5
QAD	Croydon	25.4	36.7	25.4	51.1	26.0	60.0	26.7	59.9
QAE	East Kent	46.5	67.5	47.7	66.6	49.5	67.1	51.8	65.8
QAF	West Kent	77.1	66.9	79.4	65.4	82.5	64.7	85.6	70.4
QAG	Kingston & Richmond	22.7	56.8	23.0	59.0	23.8	56.9	24.6	59.8
QAH	Lambeth Southwark & Lewisham	50.2	45.5	50.1	46.5	50.0	46.1	49.7	49.9
QAJ	Merton Sutton & Wandsworth	44.4	50.3	44.5	47.7	45.4	52.1	46.2	58.7
QAK	East Surrey	35.3	54.5	36.1	62.2	37.3	63.5	38.4	64.5
QAL	West Surrey	52.5	63.6	53.9	64.7	55.4	60.5	56.8	63.5
QAM	East Sussex Brighton & Hove	56.1	67.3	58.2	69.5	60.8	70.1	63.4	71.4
QAN	West Sussex	61.4	48.8	62.1	58.6	64.8	62.1	67.2	66.8
	South & West	517.4	68.6	540.2	68.2	564.8	66.9	586.7	66.4
QD1	North & Mid Hampshire	33.9	70.4	46.7	66.0	44.7	63.4	46.7	66.0
QD2	Portsmouth & South East Hampshire	41.4	68.2	43.2	68.2	44.7	66.8	46.0	68.3
QD3	Southampton & South West Hampshire	34.7	70.8	37.7	69.8	44.0	66.0	45.7	70.1
QD4	Isle of Wight	11.5	69.1	11.8	67.9	12.2	70.2	12.8	73.9
QD5	Somerset	35.7	70.9	36.3	70.8	42.5	66.0	44.5	70.1
QD6	South & West Devon	48.8	65.3	49.4	58.9	51.6	63.2	53.7	58.3
QD7	Wiltshire	60.7	71.6	61.5	66.6	48.7	71.5	50.7	69.8
QD8	Avon	65.0	64.9	65.8	71.4	78.9	67.2	81.1	65.2
QDV	Cornwall & Isles of Scilly	42.2	71.8	43.8	70.1	45.9	68.2	48.2	63.8
QDW	Dorset	58.1	68.9	58.6	69.1	61.1	70.3	63.3	69.6
QDX	North & East Devon	40.4	63.2	39.7	69.0	43.0	61.8	44.9	60.7
QDY	Gloucestershire	45.1	69.9	45.8	70.6	47.5	68.5	49.2	67.3
	West Midlands	430.4	64.3	433.8	66.0	444.7	67.9	455.3	69.1
QD9	Birmingham	71.7	57.3	72.2	60.6	72.5	60.5	72.9	63.1
QEA	Coventry	23.3	67.6	23.3	61.9	23.6	70.3	23.9	71.4
QEC	Dudley	27.1	51.5	27.1	58.5	27.6	65.0	28.2	68.9
QED	Herefordshire	14.3	70.9	14.6	76.4	15.2	76.7	15.8	72.5
QEE	Sandwell	23.8	66.3	23.6	65.6	23.6	66.6	23.6	65.0
QEF	Shropshire	35.4	71.5	36.0	72.1	37.5	70.7	39.1	68.5
QEG	Solihull	18.1	67.4	18.3	66.3	18.9	67.3	19.4	67.0
QEH	North Staffordshire	38.2	64.6	37.5	63.7	39.0	66.8	40.0	68.0
QEI	South Staffordshire	49.4	67.3	50.4	69.6	52.5	69.9	54.4	71.3
QEK	Walsall	22.7	66.7	22.4	67.5	22.7	71.3	22.8	71.1
QEL	Warwickshire	42.4	68.0	43.1	66.4	44.7	65.4	46.3	72.1
QEM	Wolverhampton	19.3	46.0	19.2	59.4	19.2	65.6	19.4	63.8
QEN	Worcestershire	44.9	70.8	45.9	72.9	47.7	76.0	49.6	75.5
	North West	528.6	64.7	517.2	66.7	543.5	66.7	560.1	66.2
QC1	South Lancashire	25.9	64.0	25.3	68.9	27.4	64.9	28.8	69.6
QC2	Liverpool	35.4	53.7	34.9	58.3	35.1	61.5	35.2	63.0
QC3	Manchester	28.1	58.9	27.7	60.7	27.6	59.8	27.6	58.3
QC4	Morecambe Bay	25.3	68.5	25.0	67.5	26.6	63.1	27.5	61.3
QC5	St Helen's & Knowsley	27.6	61.3	27.5	61.5	28.0	63.6	28.4	66.8
QC6	Salford & Trafford	35.2	65.5	35.3	69.7	36.0	67.3	36.8	66.9
QC7	Sefton	25.7	64.5	25.7	65.3	26.1	64.5	26.5	61.8
QC8	Stockport	24.0	71.4	24.2	71.9	25.0	71.4	25.8	67.9
QC9	West Pennine	36.4	68.9	36.4	72.3	38.0	65.6	39.4	68.5
QCT	Bury & Rochdale	31.0	56.4	31.3	55.8	31.7	63.1	32.7	63.5
QCV	North Cheshire	26.4	61.9	26.6	61.4	27.7	65.2	28.8	67.1
QCW	South Cheshire	53.7	72.2	54.3	74.2	58.4	71.8	60.6	73.7
QCX	East Lancashire	38.6	65.5	31.4	64.6	40.0	67.8	42.3	65.4
QCY	North West Lancashire	39.2	66.3	35.8	67.4	39.9	69.8	41.2	65.8
QDA	Wigan & Bolton	45.4	64.9	46.0	70.2	47.6	69.0	49.6	63.1
QDC	Wirral	30.8	67.5	29.8	69.9	28.4	70.9	29.0	70.0

⁽¹⁾ Resident population less those women recorded as ineligible
⁽²⁾ 1995/96 data used for March 1997 entry

Table 13

Breast screening programme : estimated uptake of invitation to screen, by women aged 50-64 by unit, 1992-93 to 1997-98 ⁽¹⁾

England							percentages
Unit	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	Change ⁽²⁾ 1996-97 to 1997-98
Northern & Yorkshire							
Cumbria	82	81	86	83	83	83	0
Gateshead	71	70	78	80	77	78	+1
Leeds	71	71	76	71	73	76	+3
Newcastle	73	76	83	80	84	82	-2
North Tees	77	72	81	80	76	78	+2
North Yorkshire	78	80	82	80	82	81	-1
Pennine	69	70	77	73	72	78	+5
Trent							
Barnsley		81	82	82	82	82	0
Doncaster	80	80	82	82	84	82	-2
Rotherham		77	80	82	81	81	-1
Boston (South Lincolnshire)	79	77	84	82	80	81	+1
North Lincolnshire		81		83	82	82	0
Derby City & South Derbyshire	87	81	83	83	83	84	+1
North Derbyshire (Chesterfield)		80	78	79	79	80	+1
Humberside	74	76	77	77	78	75	-3
Leicestershire	74	78	79	80	82	81	-1
North Nottinghamshire		76	81	79	80	81	+1
Nottingham City	75	71	78	80	78	81	+3
Sheffield	73	79	80	79	81	81	0
Anglia & Oxford							
Aylesbury	76	78	82	79	78	80	+1
Cambridge & Huntingdon	74	85	83	83	81	78	-3
East Berkshire	73	71	81	78	75	79	+4
Great Yarmouth & Waveney	82	82	83	76	-7
Kettering	78	76	82	80	80	79	-1
Kings Lynn	86	77	79	84	86	79	-6
Luton & Dunstable	75	74	76	77	76	75	0
Milton Keynes	72	76	82	76	81	77	-4
Northampton	74	73	80	77	78	77	0
Norwich & Area	78	78	86	88	88	80	-8
Oxford	77	76	82	78	79	79	0
Peterborough	78	75	84	87	86	78	-9
Suffolk East	84	78	85	88	86	80	-6
West Berkshire	75	76	86	80	79	82	+2
West Suffolk	81	75	83	84	84	80	-3
Wycombe	79	82	86	82	82	83	+1
North Thames							
Barking, Havering & Brentwood	75	70	80	77	72	75	+4
Central & East London	44 ⁽³⁾	43	46	50	50	47	-3
Chelmsford & Colchester	77	77	85	83	79	81	+1
Epping	64	67	79	70	71	72	+1
North Middlesex	46	63	67	58	58	62	+4
North of London (Edgware)	57	56	68	63	62	66	+3
South Essex	69	70	76	74	71	69	-2
West of London (Charing Cross)	51	55	59	54	56	55	-1
Whipps Cross	66	67	69	73	73	70	-3

⁽¹⁾ First invitations, routine invitations and early recall invitations

continued

⁽²⁾ All percentages are shown rounded to the nearest whole number; the difference between 1996-97 and 1997-98 uptake is calculated using the exact percentages for those years and then rounded⁽³⁾ 1992-93 data aggregated from Central London and East London

Table 13 cont. Breast screening programme : estimated uptake of invitation to screen, by women aged 50-64 by unit, 1992-93 to 1997-98 ⁽¹⁾

England							percentages
Unit	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	Change ⁽²⁾ 1996-97 to 1997-98
South Thames							
Canterbury & Kent	78	77	83	81	79	78	-1
East Sussex (Brighton)	69	69	84	78	80	79	0
Guildford	68	69	71	76	72	76	+3
South East London	61	61	64	65	63	65	+2
Wandsworth	62	63	63	69	63	68	+4
Worthing	78	73	72	74	73	76	+3
South & West							
Avon	75	71	78	79	79	76	-2
Basingstoke	78	76	83	79	77	82	+5
Cornwall	76	76	81	80	78	79	+1
Dorset	75	74	81	78	78	79	+2
East Devon	79	75	81	80	78	77	-1
Gloucester	79	74	81	78	76	77	+1
Isle of Wight	76	78	87	81	82	82	0
Portsmouth	73	78	82	75	79	79	0
Somerset	80	76	79	79	83	82	-1
Southampton (Salisbury)	77	78	86	79	78	81	+2
Swindon & Bath	80	80	81	80	80	79	-1
West Devon	73	73	78	77	77	79	+2
Winchester	76	73	85	88	85	77	-8
West Midlands							
Dudley and Wolverhampton	51	55	72	72	69	73	+4
Hereford and Worcester County	79	79	88	89	81	83	+1
Mid Staffordshire	77	76	83	87	88	82	-7
North Staffordshire	71	75	77	76	75	76	+1
Shropshire	80	77	83	81	78	78	0
South East Staffordshire	82	80	87	83	83	79	-3
South Birmingham	58	70	72	70	76	69	-7
Walsall and Sandwell	70	73	74	76	74	69	-5
Warwickshire, Solihull and Coventry	74	75	83	77	77	78	+1
City Hospital (Birmingham)	58	64	67	63	69	66	-3
North West							
Bolton, Bury & Rochdale	74	73	78	77	75	75	0
Chester	80	80	83	82	82	79	-2
Crewe	83	80	90	84	83	84	+1
East Lancashire	78	73	81	82	79	74	-5
Liverpool	61	64	66	64	73	71	-2
Macclesfield	80	78	85	80	80	78	-1
Greater Manchester	72	73	76	75	73	71	-2
North Lancashire	84	75	86	87	85	77	-8
Warrington, Halton & St Helens	72	71	77	77	74	77	+3
Wigan	78	80	86	87	85	78	-8
Wirral	78	73	79	80	75	76	+1

⁽¹⁾ First invitations, routine invitations and early recall invitations

Source : Form KC62

⁽²⁾ All percentages are shown rounded to the nearest whole number; the difference between 1996-97 and 1997-98 uptake is calculated using the exact percentages for those years and then rounded