CervicalCheck

AN CLÁR NÁISIÚNTA SCAGTHÁSTÁLA CEIRBHEACS
THE NATIONAL CERVICAL SCREENING PROGRAMME

2013-2014

Programme Report

Contents

Key achievements 2013-2014

- Coverage in the 5-year period to the end of August 2014 increased to 77% of the target population (it was 74.7% at the end of August 2013). The objective of the programme for coverage (5-year) remains at 80%.

- There was a significant improvement in the number of women who received a letter advising that the results of their smear test was available within four weeks of the smear test date (88.6%).

- There was a reduction in the number of follow-up visits in colposcopy services compared to the previous year. This reduction is a result of the successful introduction of HPV testing in combination with cytology to identify women at low risk of high grade CIN who are suitable for discharge.

- The waiting time targets for appointments in colposcopy were exceeded for all categories of referrals – clinical indication urgent, clinical indication non-urgent, high grade and low grade.

- The biopsy rate for women attending colposcopy increased relative to the previous year, both for first appointments and for all appointments in colposcopy services.

- Treatments were performed in colposcopy services as an outpatient procedure under local anaesthetic in 94.3% of cases, well ahead of the target of 80%.

- Treatment at the first visit for women who presented with low grade abnormalities was carried out in 2.9% of cases, well below the 10% target.

- 92.5% of women treated at the first visit to colposcopy had CIN detected (the standard is 90%). In addition, 91.5% of women who had an excisional treatment at any visit had CIN detected (the standard is 80%).

- During the reporting year the positive predictive value of a colposcopic impression of high grade disease was 73%, appreciably in excess of the programme's standard of >65%.

- 7,034 cases of high grade CIN (CIN2, CIN3 or AIS) were histology-detected, the highest annual number to date for the programme. There were 5,407 cases of low grade CIN and 5,422 cases with no CIN. These numbers are significantly higher than the previous year.

- For cytology-histology correlation, the positive predictive value (PPV) – measured as the percentage of women referred with high grade cytological abnormality who have a histological diagnosis of CIN2 or higher – was 79.8%.

Introduction to the statistics 2013/2014

CervicalCheck – The National Cervical Screening Programme has been in operation since 1 September 2008. The figures reported in this section relate to the sixth year of the programme. During the reporting period a combination of 'invitation/re-call' and 'direct entry' was in operation. Women whose details were on the Cervical Screening Register (and their doctor or nurse) could check their next smear test due date using an online facility on the CervicalCheck website.

Quality assurance underpins every aspect of the CervicalCheck programme and programme performance is measured against key performance indicators (KPIs) as outlined in Guidelines for Quality Assurance in Cervical Screening Second Edition, 2013[1].

The response to the programme was very positive with 300,546 women attending for screening. Table 1 shows the number of women screened by age group. Women between the ages of 25 and 60 are invited for screening, but a small number of women under the age of 25 may attend under specific circumstances. Those women aged 61 or over include women presenting for the first time at this age as well as those who first attended for a smear test before the age of 61 and who did not have a second successive normal result before the age of 61 to exit the programme.

Table 1: Number of women screened by age group

| Age group	Number of women screened	%
<25*	969	0.3
25 - 29	47,090	15.7
30 - 34	53,345	17.7
35 - 39	49,914	16.6
40 - 44	44,562	14.8
45 - 49	35,312	11.7
50 - 54	29,147	9.7
55 - 59	23,379	7.8
60	3,851	1.3
≥61	12,977	4.3
Total	**300,546**	**100**

* Based on evidence to date, there is no additional public health benefit in starting population screening below the age of 25. Screening in women under the age of 25 may lead to many women receiving unnecessary treatment for lesions that would never have developed into invasive cancer. Certain exemptions apply where some women over the age of 60 and under the age of 25 are considered eligible. Such exemptions may include women of any age who are post-colposcopy, women over the age of 60 who have never had a smear test and women aged 20 and over who are on renal dialysis, have HIV infection, are post organ transplant or who have had a previous abnormal smear test result and are within the recommended follow-up period.

Programme coverage

Coverage is a measure of the effectiveness of the screening programme in reaching the target population and indicates the proportion of the eligible population screened within a period. The five-year coverage at the end of the reporting period (31 August 2014) was 77 per cent. This figure is adjusted for women who have had a hysterectomy and therefore do not require cervical screening. This rate represents continued improvement over the first six years as CervicalCheck approaches the target five-year coverage of 80 per cent overall.

The geographical spread of screening coverage based on the eligible population of each county is shown in Figures 1 and 2. Five counties achieved the standard of 80 per cent coverage and 18 counties achieved higher than 70 per cent during this year. Only three counties had coverage below 70 per cent. Continued efforts have been made to improve coverage in counties where there is low coverage.

Figure 1:   Five-year coverage (%) based on county of residence* for period ending 31 August 2014
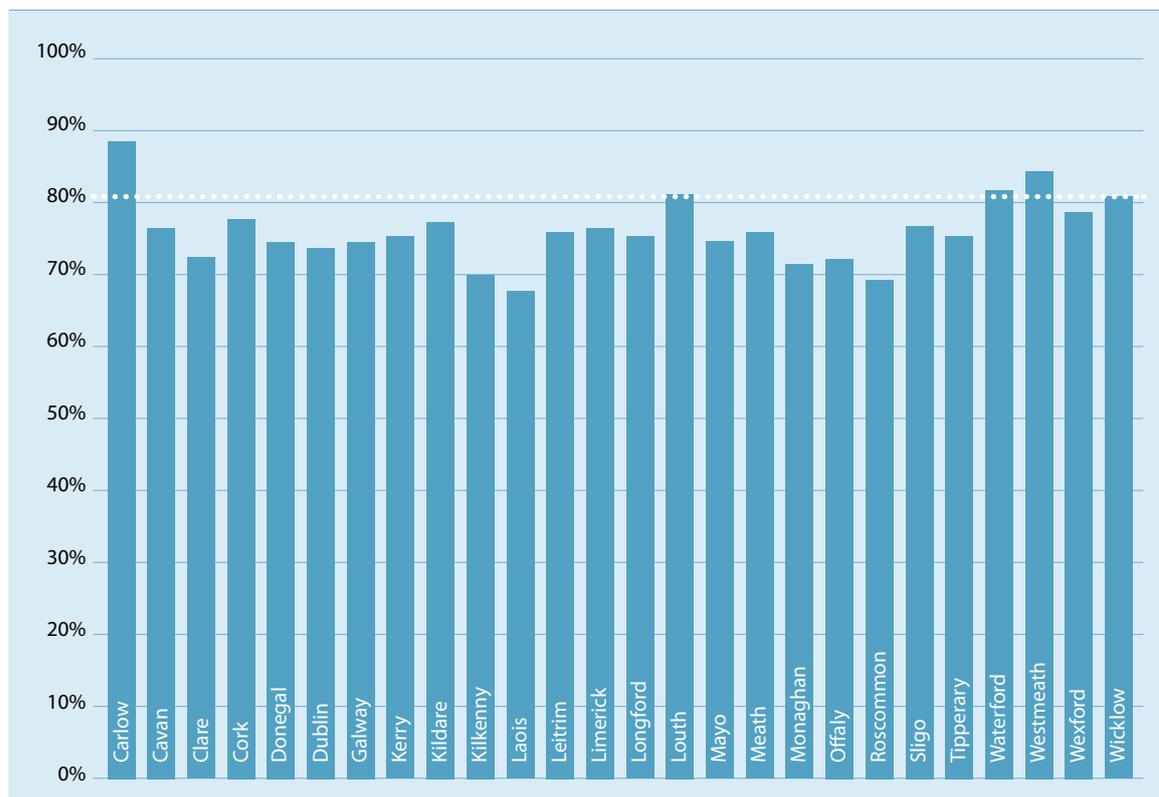
*   Population based on CSO 2011[2] figures projected to 2012, not adjusted for hysterectomy (hysterectomy data not available by geographical location).

Figure 2: Map showing five-year coverage (%) based on county of residence*
for period ending 31 August 2014

Coverage

- >= 80%
- 70% - 80%
- <70%

Data analysed using Health Atlas Ireland.

* Population based on CSO 2011[2] figures projected to 2012, not adjusted for hysterectomy (hysterectomy data not available by geographical location).

Figure 3: Five-year coverage of women by age group*
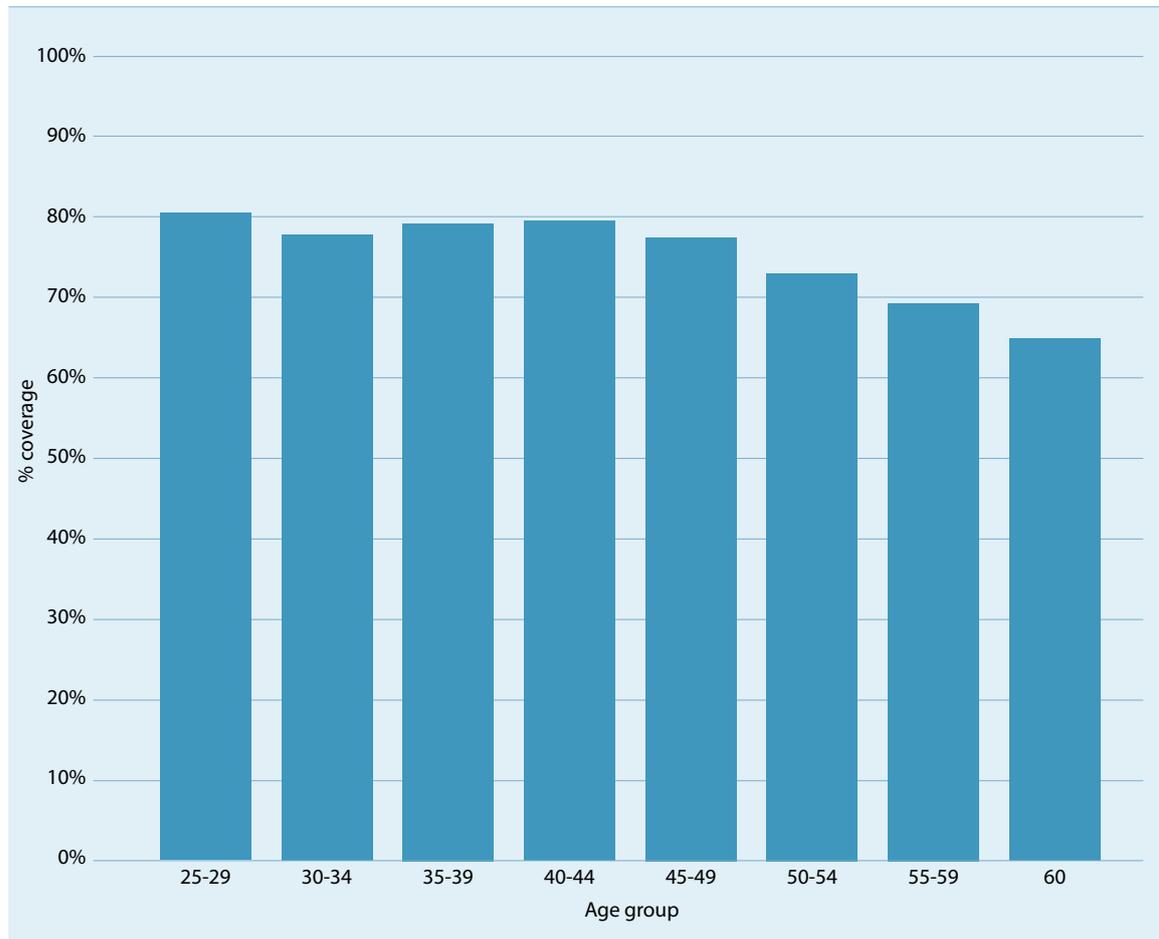
*   Population based on CSO 2011[2] projected to 2012, adjusted for hysterectomy

Figure 3 demonstrates five-year coverage by age group for the period 1 September 2009 to 31 August 2014. A consistent pattern has been evident since the beginning of the programme. In general, younger women are more likely to have participated in screening with 80.4 per cent of women aged 25-29 years screened compared to only 69.5 per cent of women in the 55-59 year old group. Women who have had a total hysterectomy with complete removal of the cervix are excluded from the eligible population. As this surgery is more common in older women, this affects the coverage rates to a greater degree in the older age cohorts than the younger groups.

During the reporting period, most women (88.9%) had their smear tests carried out in a primary care setting with 93.6 per cent of these women attending a GP practice. For the remainder of women, the smear test occurred in a colposcopy clinic, gynaecology service or STI/GUM clinic.

Laboratory turnaround time

In the CervicalCheck programme it is important that cytology services process smear tests within 10 days to facilitate the timely provision of results to women following their smear test.

A laboratory turnaround time of less than two weeks in over 90 per cent of cases is a programme standard. In this reporting year 97.8 per cent of results were received by the programme within two weeks of the receipt of the sample being notified by the laboratory, which surpassed this target (Table 2).

Table 2:   Laboratory turnaround time – time from receipt of sample at laboratory to results returned to the programme

Performance parameter	2013/2014	Target
% results returned within two weeks of receipt of sample at laboratory.	97.8%	>90%

CervicalCheck Women's Charter

The CervicalCheck Women's Charter includes the commitment that 'your result and any treatment recommendation will be provided to you and your smeartaker by the programme within four weeks'. Table 3 illustrates the performance of the programme against this target with a notable improvement from 40 per cent in the first year to 88.6 per cent in the sixth year of the programme, with the letter to the woman being issued within five weeks in 97 per cent of cases (Table 3 & Figure 4). Ongoing monitoring and actions including liaison with smeartakers on sample submission as well as ensuring turnaround times at laboratories continue to make improvements in these response times.

Table 3:   Percentage of letters advising results available sent within four and five weeks of smear test date

Time from smear test to letter printed date	2013/2014	Target
Within 4 weeks	88.6%	>90%
Within 5 weeks	97%	

Figure 4:   Time in weeks for letter to be sent to women (%)

2.2%
0.8%
8.4%
88.6%

- Up to 4 weeks
- 4-5 weeks
- 5-6 weeks
- Over 6 weeks
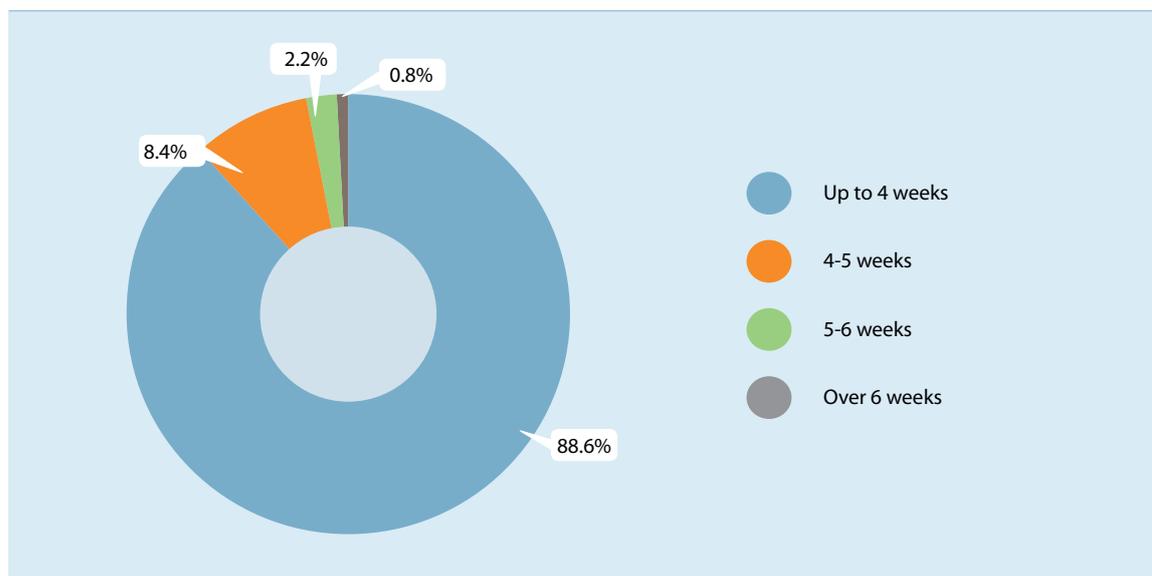
Cytology

Cytology findings reported in Tables 4 and 5 are based on smear test results received by the programme in the period 1 September 2013 to 31 August 2014, rather than the date on which the smear test was taken. Of the 321,581 smear tests examined, a small number (6,010/1.9%), were unsatisfactory (Table 4). The outcomes of the remaining 315,571 satisfactory smear tests are reported in Table 5. Over 90 per cent of satisfactory smear test results were found to be negative or normal. Of the remainder, eight per cent showed low grade abnormalities and 1.7 per cent showed high grade abnormalities (HSIL [moderate or severe], query invasive squamous carcinoma or query glandular neoplasia). In previous years there was a higher than anticipated rate of ASCUS results. In this year the ASCUS rate was four per cent compared to a peak of 10.2 per cent during the third year of the programme.

Table 4:   Cytology findings for smear test results

| Total number of smear tests processed | Cytology findings | | | |
| | Unsatisfactory/ inadequate smear test | | Satisfactory/ adequate smear test | |
N	N	%	N	%
321,581	6,010	1.9	315,571	98.1

Table 5: Cytology results excluding unsatisfactory smear tests

Cytology results	N	%
NAD (no abnormality detected)	284,764	90.2
Low grade		
ASCUS	12,619	4.0
AGC (borderline glandular)	719	0.2
LSIL	12,048	3.8
High grade		
ASC-H	1,439	0.5
HSIL (moderate)	1,960	0.6
HSIL (severe)	1,931	0.6
Query invasive squamous carcinoma	33	0.01
Query glandular neoplasia AIS/adenocarcinoma	58	0.02
Total	**315,571**	**100.0**

Referral to colposcopy

Cytology results of smear tests performed on women not attending colposcopy services will be accompanied by a recommendation of referral to colposcopy for a) high grade cytological abnormalities and b) persistent low grade cytological abnormalities. During the year, 11,521 (4.1%) of the smear tests performed on women not attending colposcopy clinics resulted in a referral to colposcopy.

Cytology correlation measures

Cervical screening programmes have to balance the early detection of high grade abnormalities with avoiding unnecessary investigations and possible overtreatment. Internationally accepted performance measures have been developed to correlate referral cytology results with histological outcomes in organised programmes[3]. These include the positive predictive value (PPV) and the referral value (RV).

The positive predictive value (PPV) is reported as the percentage of women referred with high grade cytological abnormality who have a histological diagnosis of CIN2 or higher. During the reporting year the PPV was 79.8 per cent.

The referral value (RV) looks at this in another way and examines the number of women referred to colposcopy for the detection of one case of CIN2 or higher. During the current reporting year, for every 2.29 women referred to colposcopy one had CIN2 or higher detected (for every 229 women referred to colposcopy 100 had CIN2 or higher detected).

Measures of the performance of cytology	
PPV	79.8%
RV	2.29

Diagnosis and treatment

Quality assured colposcopy services with timely diagnosis and treatment are an important requirement for successful cervical screening programmes. Fifteen colposcopy services nationwide continue to work with the programme. Each colposcopy service is delivered by dedicated multidisciplinary teams. Information is collected electronically and a central data extraction performed. This data forms the basis for this section of the report.

Table 6:   Outcome of appointments at colposcopy clinics

	First visits		Follow-ups		Total	
	N	%	N	%	N	%
Attended	15,786	72.7	40,869	53.5	56,655	57.8
Cancelled	4,445	20.5	24,987	32.7	29,432	30.0
DNA	1,445	6.7	10,468	13.7	11,913	12.2
Not recorded	25	0.1	0	0.0	25	0.0
Total	**21,701**	**100**	**76,324**	**100**	**98,025**	**100**

It is important to note the number of women referred and the number of new referrals attended will not be the same in any given time period. This is because of the lead time between the colposcopy referral and the date of the first colposcopy visit as well as additional referrals for clinical reasons.

During the reporting period, 15,786 women attended colposcopy for the first time representing an increase when compared to the previous year (Table 6, Figure 5). By contrast there was a reduction in the number of follow-up visits compared to the previous year. This is a result of the introduction of HPV testing in combination with cytology to identify women at low risk of high grade CIN who are suitable for discharge. This has reduced unnecessary follow-up visits.

Figure 5:   Attendance at colposcopy services from 1 September 2008 – 31 August 2014

Number of follow-up visits ■   Number of first visits ■
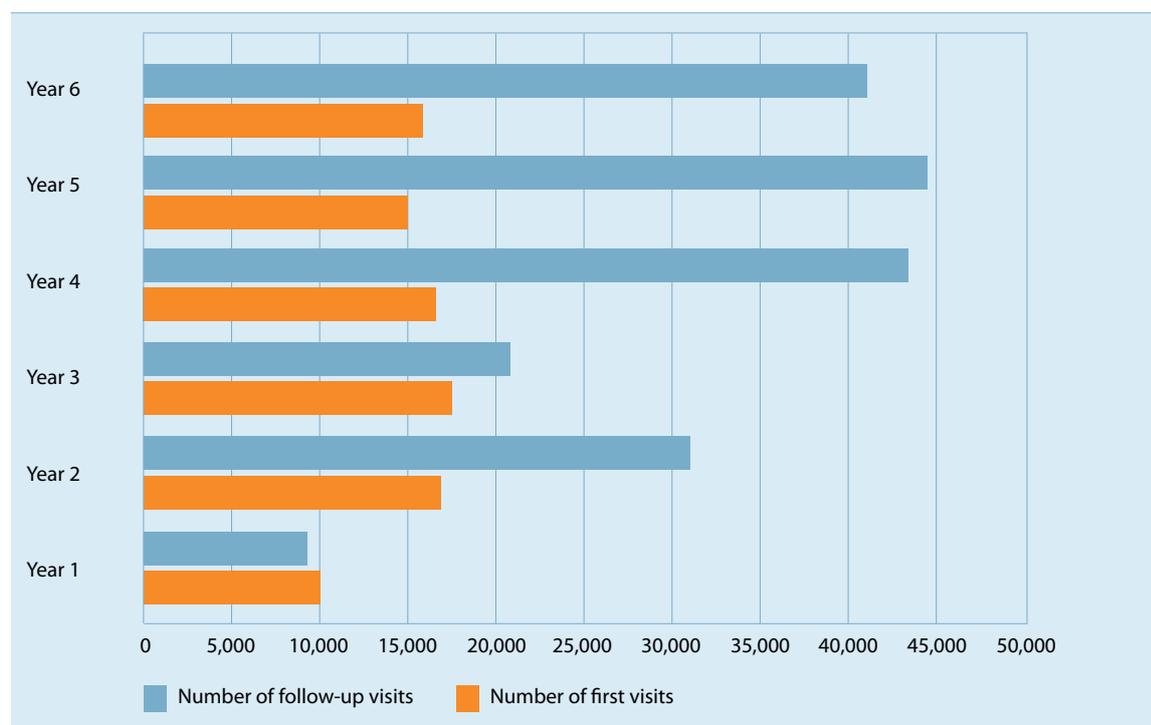
Of the 15,786 new attendances at colposcopy, information on the age of the woman was available for 15,757 (99.8%). The mean age at referral was 37 years. The majority of women were aged between 25-45 years with 3.2 per cent under 25 years of age and 13.8 per cent aged 50 or over.

The rate of defaulted appointments where no prior notice was given (DNA) should be kept to a minimum. In 2014 this standard was amended to aim below 10 per cent instead of 15 per cent[1]. The recorded rate for the sixth year of the programme was 12.2 per cent. While this met the previous standard it will be a focus of continued improvement against the new standard.

Attendance at colposcopy services

Performance parameter	2013/2014	Target
The percentage of women who do not attend and who do not notify the clinic should be maintained at a low level to maximise the efficiency of the clinic and to avoid the loss of women to follow-up	12.2%	<10%

The rate of DNA appointments is presented in Table 7 according to the type of visit and the age of the woman. The DNA rate is higher for return visits than for first visits reflecting the longer lead time for these appointments. Again, this year, younger women were more likely to default than older women.

Table 7: DNA rates for appointments offered to women by age group

Age in years at first offered appointments	Number of first appointments	First visit DNA rate (%)	Number of follow-up appointments	Follow-up visit DNA rate (%)
<25	722	9.0	3,681	18.1
25 – 29	5,373	7.4	23,676	15.1
30 – 34	4,859	8.2	17,923	14.3
35 – 39	3,382	6.7	10,976	14.2
40 – 44	2,543	5.2	7,942	11.9
45 – 49	2,022	5.1	5,628	10.6
50 – 54	1,269	4.6	3,331	9.1
55 – 59	811	3.7	1,906	9.1
60	103	4.9	245	8.2
61+	616	4.9	1,016	6.8

Reasons for referral

Women were referred to colposcopy on the basis of an abnormal smear test result or for clinical reasons such as abnormal vaginal bleeding or suspicion of an anatomical abnormality of the cervix (Table 8). This table excludes 33 women (0.2%) for whom no consent information was recorded.

The reasons for referral to colposcopy for 15,753 new referrals are presented in Table 8 . Over two thirds of women were referred on the basis of an abnormal smear test result and 32 per cent were referred for clinical reasons. This relative increase in clinical referrals (women with anatomical abnormalities of the cervix or those with inter-menstrual or post-coital bleeding) represents the utilisation of capacity in colposcopy services which facilitated the inclusion of some women who previously would have been seen in outpatient gynaecology services (Figure 6).

Table 8: Reason for referral to colposcopy

	New referrals	
Reason for referral to colposcopy	**N**	**%**
Abnormal smear	10,589	67.2
Clinical indication – non-urgent	3,036	19.3
Clinical indication – urgent	2,107	13.4
Total*	**15,732**	**100**

* The reason for referral was missing in 21 cases

Figure 6:   Reason for referral for women attending colposcopy services from 1 September 2008-31 August 2014
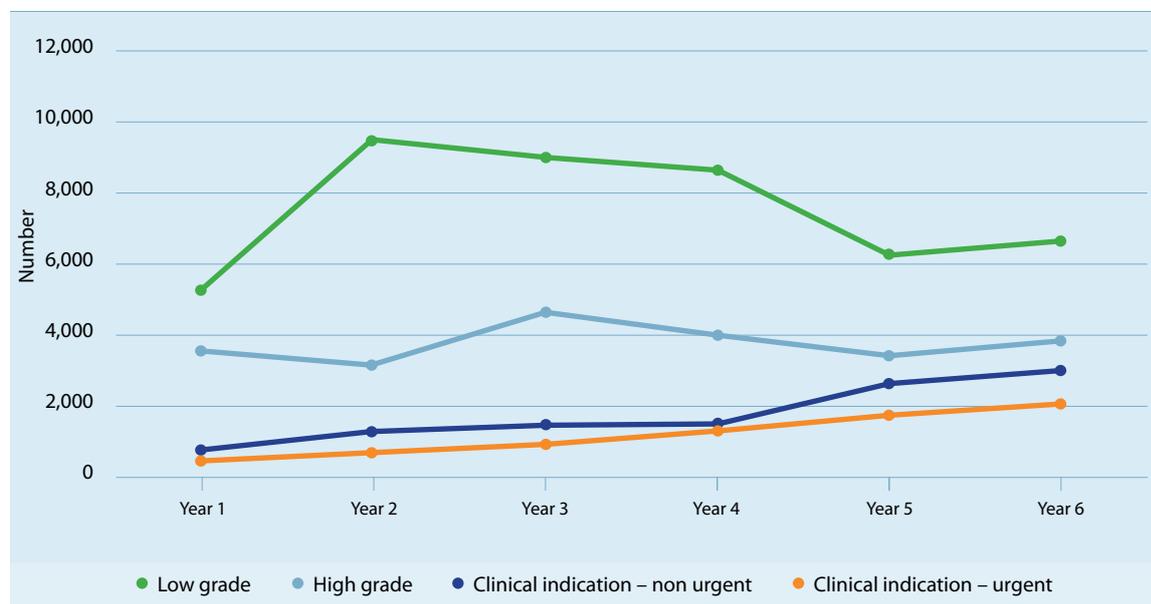
Of the 10,589 women who attended for the first time with an abnormal smear test result, 3,914 (36.9%) were referred following detection of a high grade abnormality (Table 9). The detection of a low grade smear test result (LSIL or ASCUS) was the reason for referral in 6,037 women (57%) and a smear test showing AGC (borderline glandular abnormalities) was the reason for referral in 558 cases (5.3%). The number of women referred with persistently unsatisfactory or inadequate results (0.8%) remained consistently low.

Table 9: Reason for referral to colposcopy as a result of an abnormal smear test result

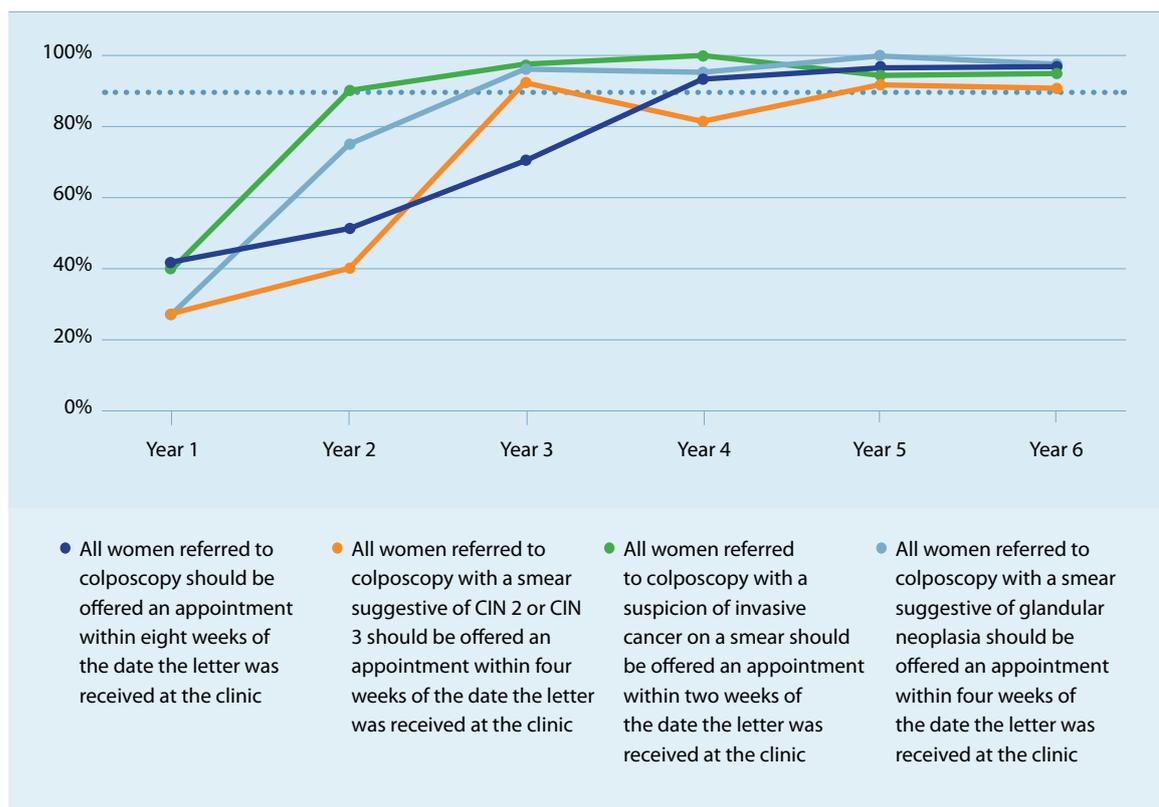|	New referrals	
Referral smear abnormality	**N**	**%**
Unsatisfactory/inadequate	80	0.8
Low grade		
ASCUS	**2,797**	**26.4**
AGC (borderline glandular)	**558**	**5.3**
LSIL	**3,240**	**30.6**
High grade		
ASC-H	1,146	10.8
HSIL (moderate)	1,299	12.3
HSIL (severe)	1,407	13.3
Query invasive squamous carcinoma	21	0.2
Query glandular neoplasia AIS/adenocarcinoma	41	0.4
Total	**10,589**	**100**

Waiting times

One of the key challenges faced by the CervicalCheck programme has been the provision of access to colposcopy services in a timely fashion for women. Since the programme began, services have been actively engaged in a process to reduce waiting times resulting in sustained improvements year-on-year.

Programme standards state that 90 per cent of women with high grade cytological abnormalities should be offered an appointment for colposcopy within four weeks and 90 per cent of all women with low grade cytological abnormalities should be offered an appointment within eight weeks.

For the period 1 September 2013 to 31 August 2014 information on waiting times was available for 15,732 of the 15,753 new attendances (Figure 7 and Table 10). For women referred to colposcopy with a smear test suggestive of CIN2/CIN3, 91 per cent were seen within four weeks. Overall only 3.5 per cent of women experienced waiting times of longer than eight weeks and in only 0.5 per cent of cases the wait was longer than 12 weeks.

Figure 7:   Waiting times for colposcopy services 2008 to 2014

● All women referred to colposcopy should be offered an appointment within eight weeks of the date the letter was received at the clinic

● All women referred to colposcopy with a smear suggestive of CIN 2 or CIN 3 should be offered an appointment within four weeks of the date the letter was received at the clinic

● All women referred to colposcopy with a suspicion of invasive cancer on a smear should be offered an appointment within two weeks of the date the letter was received at the clinic

● All women referred to colposcopy with a smear suggestive of glandular neoplasia should be offered an appointment within four weeks of the date the letter was received at the clinic

Waiting times for colposcopy		
Performance parameter	**2013/2014**	**Target**
All women referred to colposcopy should be offered an appointment within 8 weeks of the date the letter was received at the clinic	96%	> 90%
All women referred to colposcopy with a smear test result suggestive of CIN 2 or CIN 3 should be offered an appointment within 4 weeks of the date the letter was received at the clinic	91%	> 90%
All women referred to colposcopy with a suspicion of invasive cancer on a smear test result should be offered an appointment within 2 weeks of the date the letter was received at the clinic	95%	> 90%
All women referred to colposcopy with a smear test result suggestive of glandular neoplasia should be offered an appointment within 4 weeks of the date the letter was received at the clinic	98%	> 90%

Table 10: Waiting times for women referred to colposcopy grouped by grade of referral smear test

	High grade*		Low grade		Total	
	N	**%**	**N**	**%**	**N**	**%**
2 weeks or less	1,689	43.2	1,118	16.8	2,807	26.5
Between 2 and 4 weeks	1,811	46.2	1,840	27.6	3,651	34.5
Between 4 and 8 weeks	380	9.7	3,332	49.9	3,712	35.1
Between 8 and 12 weeks	20	0.5	335	5.0	355	3.4
Greater than 12 weeks	10	0.3	40	0.6	50	0.5
Total	**3,910**	**100**	**6,665**	**100.0**	**10,575**	**100.0**

* Includes ASCH, adenoma in situ and query invasive carcinoma
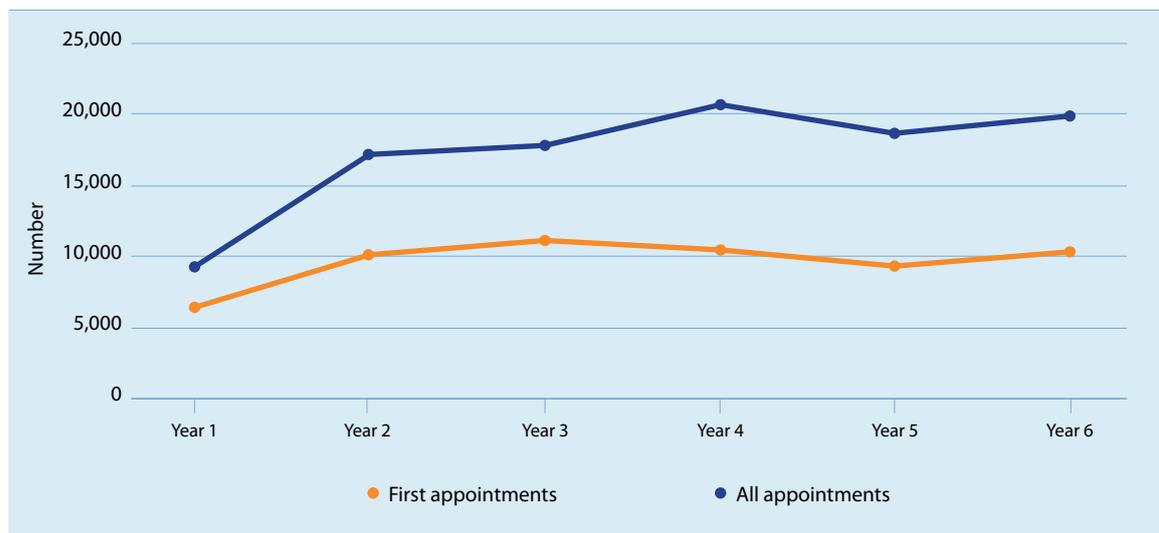
Biopsy rate

The role of colposcopy is to facilitate diagnosis and treatment of women with abnormal smear test results. Where an abnormality is suspected at colposcopy it is good practice to perform a biopsy to confirm the diagnosis. There are two main types of biopsy performed – a diagnostic biopsy, which involves sampling a portion of the abnormal area only, and an excisional biopsy which removes the abnormal area in its entirety.

During the reporting period, 13,536 diagnostic biopsies and 6,440 excisional biopsies were performed. The initial colposcopy visit determines the presence or absence of an atypical Transformation Zone (TZ) for women referred with an abnormal smear test result. A biopsy was performed in over 92 per cent of cases where the TZ was documented as atypical or abnormal. A biopsy was performed in all cases where an invasive cancer was suspected (Table 11 and Figure 8).

Table 11: Biopsy rates measured against colposcopy standards

Performance parameter	2013/2014	Target
A biopsy should be performed in the presence of an atypical Transformation Zone and a smear test which suggest underlying CIN	92.4%	>90%
If there is a suspicion of invasive disease a biopsy must be performed immediately	100.0%	>90%

Figure 8: Number of women undergoing biopsy at colposcopy services

The biopsy rates at the first visit, according to the grade of the referral smear test and reasons for referral are presented in Table 12. Eighty nine per cent of women presenting with a high grade cytological abnormality had a biopsy performed at the first visit compared with 68 per cent of women presenting with a low grade cytological abnormality. Seventy three per cent of women presenting with AGC (borderline glandular cells) had a biopsy at the first visit which included an excisional biopsy in 8.4 per cent of cases.

Table 12: Biopsies performed during the first visit to colposcopy according to referral smear test result grade

| | Type of biopsy performed | | | | | | | |
| | Excisional biopsy | | Diagnostic biopsy | | No biopsy taken | | Total | |
Grade of cytology result of referral smear test	N	%	N	%	N	%	N	%
AGC (borderline glandular)	47	8.4	359	64.3	152	27.2	558	100
High grade	961	24.6	2,527	64.6	426	10.9	3,914	100
Low grade	182	3.0	3,919	64.9	1,936	32.1	6,037	100
Unsatisfactory/inadequate	1	1.3	26	32.5	53	66.3	80	100
Total	**1,191**	**11.2**	**6,831**	**64.5**	**2,567**	**24.2**	**10,589**	**100**

Treatment at colposcopy

Effective treatment of high grade CIN and adenocarcinoma in situ (AIS) with subsequent reduction of the risk of invasive cancer is vital to the success of any cervical screening programme. Treatments should be effective, safe and acceptable and should aim to eradicate all CIN from the cervix.

CervicalCheck programme standards state that treatments are performed as outpatient procedures under local anaesthetic more than 80 per cent of the time. During the sixth year of the programme outpatient treatments occurred using local anaesthetic over 94 per cent of the time, surpassing this target.

The outcome of use of local anaesthetic

| Performance parameter	2013/2014	Target
The majority of women should have treatment performed as an outpatient under local anaesthetic	94.3%	>80%

During the reporting period, 6,725 treatments were recorded at colposcopy. Large Loop Excision of the Transformation Zone (LLETZ) was performed in 5,674 (84.4%) cases and ablative treatment was used in 927 (13.8%) cases (Figure 9). Thirty six cone biopsies (0.5%), 80 hysterectomies (1.2%) and eight trachalectomies (0.12%) were performed.

Figure 9:   Treatments at colposcopy services
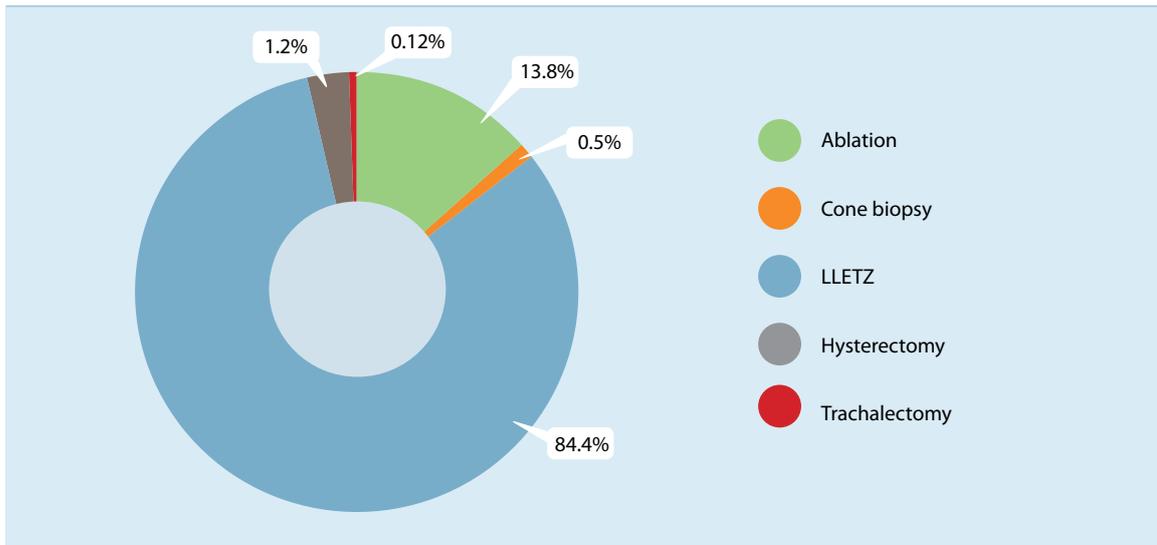
The number of treatments performed has grown markedly since the start of the CervicalCheck programme due to increased capacity at colposcopy (Figure 10).

Figure 10:   Number of women undergoing treatment at colposcopy services
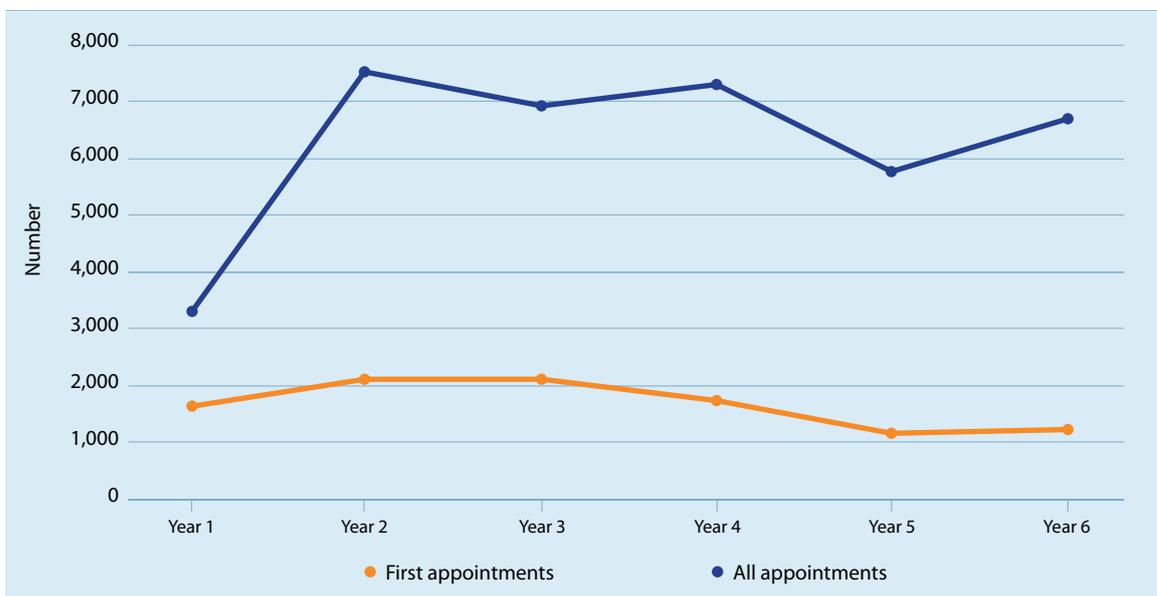
One of the principles of screening is the avoidance of overtreatment. This is of particular relevance to cervical screening because of the potential adverse effect of some treatments on future fertility. In this regard, treatment at the first visit for women who present with low grade abnormalities should be avoided and kept below 10 per cent. During the reporting period, this figure was within the target at 2.9 per cent (Table 13).

Table 13: **Treatment at first visit to colposcopy**

Reason for referral to colposcopy	No treatment on first visit		Treatment on first visit		Total number of women attended	
	N	**%**	**N**	**%**	**N**	**%**
Clinical indication – non-urgent	2,965	97.7	71	2.3	3,036	100
Clinical indication – urgent	2,067	98.1	40	1.9	2,107	100
AGC (borderline glandular)	511	91.6	47	8.4	558	100
High grade	2,953	75.4	961	24.6	3,914	100
Low grade	5,864	97.1	173	2.9	6,037	100
Unsatisfactory /inadequate	79	98.7	1	1.2	80	100
Total	**14,439**	**91.8**	**1,293**	**8.2**	**15,732**	**100**

Most women who undergo excisional procedures should have histologically-proven CIN detected on the excised specimen. This is particularly true if the procedure is performed at the first visit to colposcopy. During the sixth year of the programme 92.5 per cent of women treated at the first visit had CIN detected which met this standard. In addition, 91.5 per cent of women who had an excisional treatment at any visit had CIN histology meeting the standard of greater than 80 per cent.

The performance of colposcopy treatment parameters

Performance parameter	2013/2014	Target
Treatment at the first visit to colposcopy should not be performed on women who present with low grade cytological change (even if there is a colposcopic suspicion of high grade disease) except in special circumstances	2.9%	<10%
Women treated by excisional treatments at first visit should have CIN on histology	92.5%	>90%
Women treated by excisional treatments at any visit should have CIN on histology	91.5%	>80%

Colposcopy plays an important role in the evaluation of women with suspected cervical abnormalities. It allows the identification of the site of the abnormality as well as an estimation of the grade of abnormality including the presence or absence of features suggestive of invasive cancer. The correlation between the colposcopic impression and histological diagnosis is a useful marker of the quality of colposcopy. During the reporting period the positive predictive value (PPV) of a colposcopic impression of high grade disease was 73 per cent which is in excess of the programme standard of >65 per cent.

| The positive predictive value of colposcopy		
Performance parameter	**2013/2014**	**Target**
Compliance between colposcopic impression of high grade disease and histologically proven high grade CIN	73%	>65%

Histology

The objective of a cervical screening programme is the detection and treatment of high grade CIN and the yield of these abnormalities is one of the hallmarks of success. The histology is presented by year in Figure 11. The yield of high grade abnormalities remained consistently high.

Overall, for all women who attended colposcopy in the sixth year of the programme (regardless of their reason for referral), there were 175 cancers detected, 7,034 high grade CIN (CIN2, CIN3 or AIS), 5,407 low grade CIN and 5,422 women with no CIN (Table 14). The specimen was suitable for histological analysis in 98.6 per cent of women biopsied (target >95%).

Since CervicalCheck became available in 2008, there have been 23,013 low grade CIN, 33,768 high grade CIN and 860 cancers detected.

Figure 11: Detection of CIN and cancer
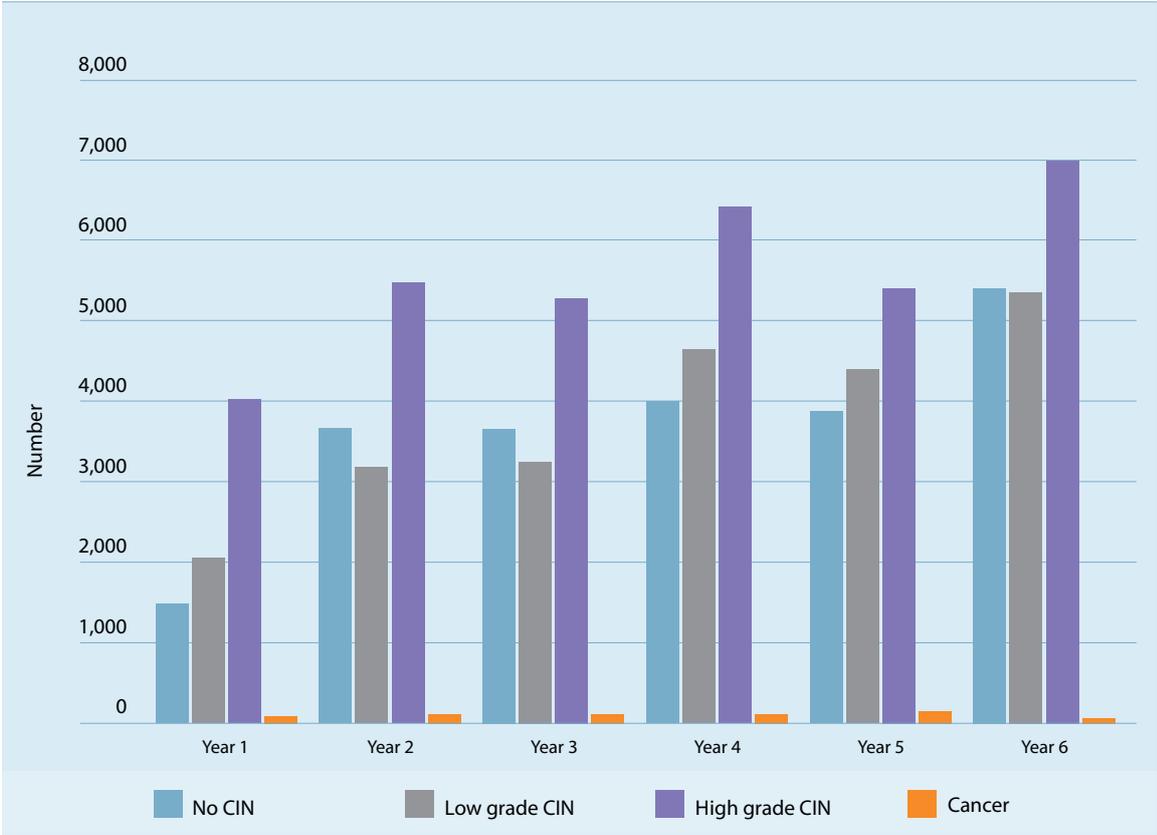
Performance parameter	2013/2014	Target
Biopsy specimens should be suitable for histological diagnosis	99%	>95%

Table 14: Histology results for women who had a satisfactory biopsy at first visit to colposcopy from 1 September 2013 to 31 August 2014

Grade of cytology result of referral smear	No CIN/No HPV		HPV/Cervitis (normal)		CIN 1 only		CIN 2		CIN 3		Adenocarcinoma in situ/CGIN		Cancer (including micro invasive)		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
ASCUS	472	27.4	190	11.0	744	43.3	221	12.8	93	5.4	0	0.0	0	0.0	1,720	100
AGC (borderline glandular)	137	37.1	34	9.2	99	26.8	27	7.3	34	9.2	30	8.1	8	2.2	369	100
LSIL	474	21.3	233	10.5	1,014	45.6	351	15.8	153	6.9	1	0.0	0	0.0	2,226	100
ASC-H	135	14.3	74	7.8	257	27.2	193	20.4	277	29.3	7	0.7	1	0.1	944	100
HSIL (moderate or severe)	131	5.4	104	4.3	259	10.6	513	21.1	1,365	56.1	19	0.8	44	1.8	2,435	100
Query invasive squamous carcinoma	0	0.0	1	5.3	1	5.3	0	0.0	9	47.4	3	15.8	5	26.3	19	100
Query glandular neoplasia AIS / adenocarcinoma	6	19.4	1	3.2	0	0.0	0	0.0	4	12.9	19	61.3	1	3.2	31	100
Unsatisfactory/ inadequate	13	56.5	4	17.4	6	26.1	0	0.0	0	0.0	0	0.0	0	0.0	23	100
Total	1,368	17.6	641	8.3	2,380	30.6	1,305	16.8	1,935	24.9	79	1.0	59	0.8	7,767	100

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