

Diagnostic Imaging Dataset: Standardised CCG rates 2016/17



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1 Introduction

Imaging activity from the Diagnostic Imaging Dataset (DID) is presented by Clinical Commissioning Group (CCG) in Tables 7 and 8 of the annual 2016/17 report¹. This Annex to the report expresses CCG activity as a rate per population, for each modality and for early diagnosis of cancer (EDOC) tests², standardised by age, sex and deprivation. It additionally shows the impact of age, sex and deprivation on the rates via Odds Ratios.

2 CCG Standardised Rates

2.1 Method

Rates per 10,000 population were calculated using 2016/17 DID activity by responsible CCG divided by October 2016 GP Practice-registered CCG populations from the Exeter system. Both sources were available by age and sex, with Index of Multiple Deprivation (IMD) quintile information added based on Lower Super Output Area (LSOA³).

Monthly counts of imaging activity by CCG, sex, 5 year age band, imputed IMD quintile and modality or EDOC were extracted from DID. Cases that did not have full completeness for all required fields were removed: approximately 3.4 million (8%) cases in 2016/17, down from 5.2 million (13%) in 2015/16. Of those that were removed, 2.9 million did not have a valid English CCG in the DID (derived from GP Practice code. Of the others, IMD (matched from a valid English LSOA) was missing more often than age or sex, but there was considerable overlap. The missing data were often clustered around particular data submitters and so affect some areas more than others.

Rates were indirectly standardised by applying the national rate by modality or EDOC for each IMD/Sex/Age breakdown to the local CCG population, to obtain an expected rate for each CCG based on their demography. The extent to which the observed rate differed from the expected rate indicated the extent to which the CCG differed from the standard, national rate. A standardised rate for each CCG by modality or EDOC was calculated as:

Standardised Rate $_{CCG} = \left(\frac{Observed Rate_{CCG}}{Expected Rate_{CCG}}\right) \times National Rate$

Indirect standardisation allows each rate to be compared with the national average, but does not allow direct comparison between CCGs. Nevertheless, it can demonstrate regional patterns and indicate the extent of variation.

¹ Diagnostic Imaging Dataset Annual Statistical Release 2016/17, NHS England, 23 November 2017. Available (with appended tables by CCG) from <u>https://www.england.nhs.uk/statistics/statistical-work-areas/diagnostic-imaging-dataset/diagn</u>

² See above publication for definitions of each modality and further details on the collection.

³ The 2016/17 DID has 2011 LSOA derived from patient postcode, which was matched to 2015 IMD quintiles.

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2.2 Results

The national rates⁴ of diagnostic imaging tests in 2016/17 per 10,000 people are shown in Tables 1 & 2 below.

Table 1. National Imaging Rates per 10,000 by modality, 2016/17

| | X-ray | Ultrasound | CT Scan | MRI | Fluoro- scopy | Nuclear Medicine | PET Scan | SPECT Scan | Medical Photography |
|---------------------------|-------|------------|------------|-----|------------------|---------------------|-------------|---------------|------------------------|
| Rate per 10,000 people | 3,621 | 1,502 | 766 | 531 | 167 | 67 | 21 | 6 | 5 |

Table 2. National Imaging Rates per 10,000 by Early Diagnosis of Cancer⁵, 2016/17

| | Brain MRI | Chest X-ray | Chest CT | Kidney or Bladder Ultrasound | Abdomen or Pelvis Ultrasound |
|---------------------------|-----------|-------------|-------------|---------------------------------|---------------------------------|
| Rate per 10,000 people | 109 | 1,313 | 87 | 38 | 206 |

The improvement in completeness of the required fields for calculating standardised rates in 2016/17 compared with 2015/16 has contributed to generally higher rates per 10,000 population and less variance across CCGs. Nevertheless, some CCGs had very low rates across all modalities because their providers did not report the GP Practice and thereby the CCG responsible for commissioning the activity. Even CCGs with higher rates may have had shortfalls for this reason. Further details are given in Annex A, which gives a list of the CCGs thought to be most affected. Consequently the rates should be interpreted with caution, especially those at the lower end of the distribution across all modalities.

For most CCGs the standardised rate was within 10% of the crude rate, but there are bigger differences particularly in areas with predominantly younger or older populations. The impact of age, sex and deprivation on imaging rates is explored in Section 3.

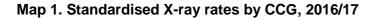
Standardised 2016/17 rates by CCG are available in Annex B (separate Excel file). The following sections summarise the distribution of rates for each modality or EDOC and illustrate these on a map.

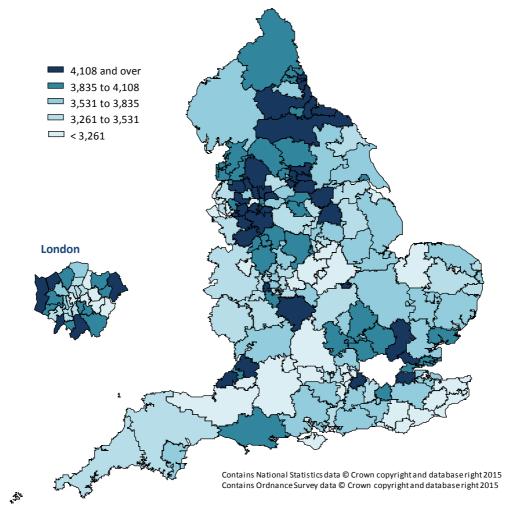
⁴ These national rates exclude activity with missing age, sex, deprivation or CCG (8% of overall imaging tests).

⁵ Brain MRI may be used to diagnose brain cancer; Chest X-ray and Chest CT to diagnose lung cancer, Kidney or Bladder ultrasound to diagnose kidney or bladder cancer and Abdomen and/or pelvis ultrasound to diagnose ovarian cancer (but this test, and the rates given here, are not restricted to females). Although these tests may be used to diagnose cancer, many have wider clinical uses and it is not possible to distinguish between the different uses of these tests.

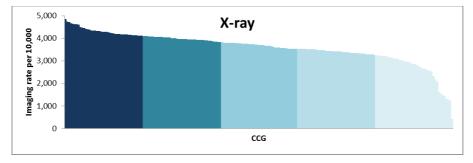
2.2.1 X-ray

There was some regional variation in X-ray rates, see Map 1 and Graph 1, with rates generally higher than average in CCGs in the North Region. The low level of rates for some CCGs in the lower fifth of CCGs illustrates the impact of missing data – some of these rates will be understated for that reason. The national rate was 3,621 X-rays per 10,000 registered population and 79% CCGs were within one standard deviation of the mean, that is between 2,922 and 4,283 tests per 10,000 population.



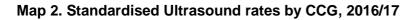


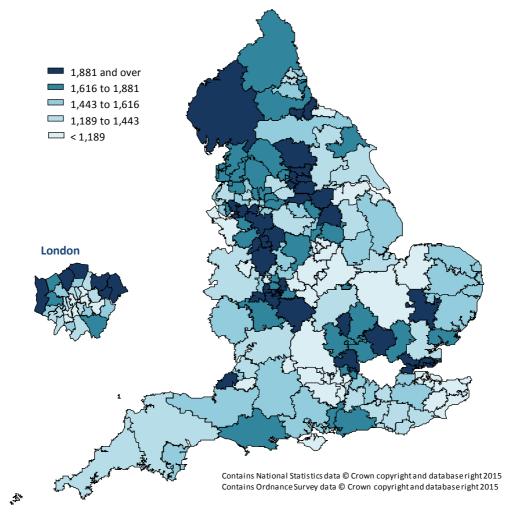
Graph 1. Standardised X-ray rates by CCG, 2016/17



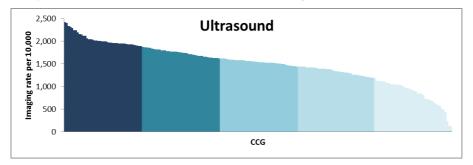
2.2.2 Ultrasound

As with X-ray, Ultrasound showed a concentration of higher rates in CCGs in the North region (Map 2). The comparison of standardised rates to crude rates showed that 94% of CCGs had a standardised rate within 10% of their crude rate, mainly because ultrasound does not rise as steeply with age as the other modalities (see Odds ratios). The rates varied more than the other major modalities: one standard deviation of the mean ranges from 1,065 to 1,932 ultrasounds per 10,000 registered population (68% CCGs were within this), with a national rate of 1,502 ultrasounds per 10,000 population. DID may not cover all ultrasound activity by hospitals (especially obstetric), where this is not recorded in radiological information systems, which might contribute to the variation.





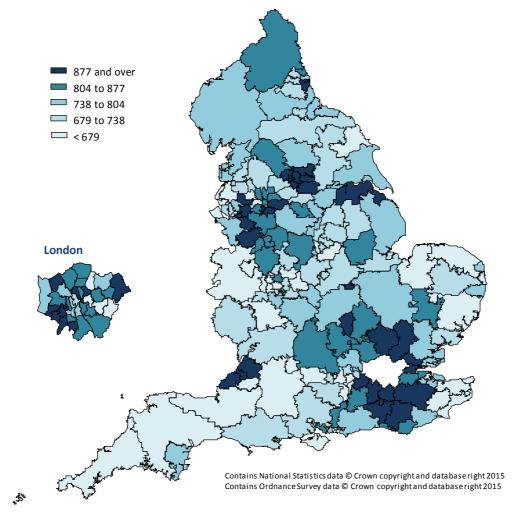




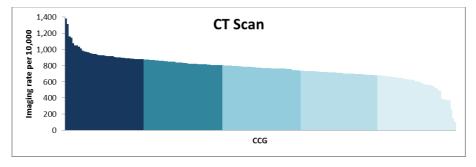
2.2.3 CT Scans

CT scans did not appear to show any strongly regional concentration and there were both high and lower rates across England (Map 3). Demographics had a large effect on CT scan rates, with only 52% of CCGs having a standardised rate within 10% of their crude rate. The national rate was 766 CT scans per 10,000 registered population and 81% CCGs were within one standard deviation of the mean, that is between 609 and 925 tests per 10,000 population.

Map 3. Standardised CT rates by CCG, 2016/17

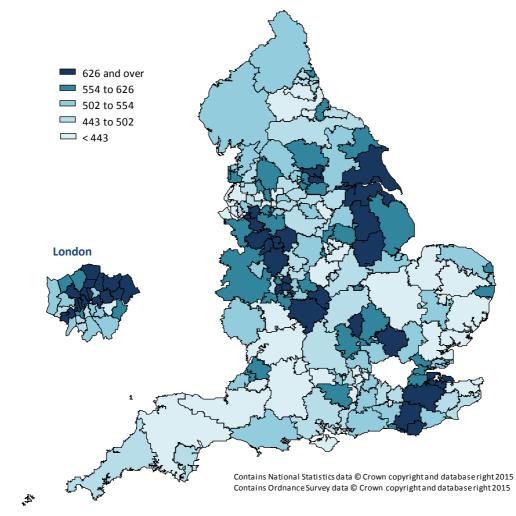


Graph 3. Standardised CT rates by CCG, 2016/17



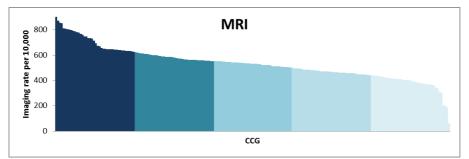
2.2.4 MRI Scans

MRI showed relatively little regional pattern but with a slight concentration of high rates in southern Yorkshire and the Midlands (Map 4). The national rate was 531 MRI scans per 10,000 registered population and 77% CCGs were within one standard deviation of the mean, between 407 and 664 tests per 10,000 population.



Map 4. Standardised MRI rates by CCG, 2016/17

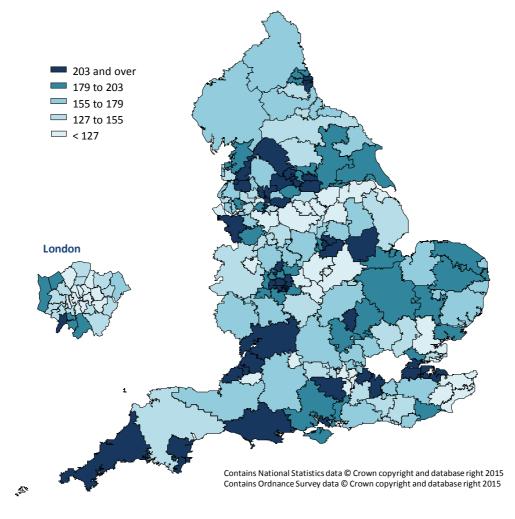




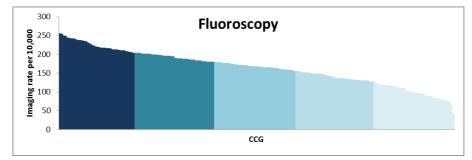
2.2.5 Fluoroscopy

Fluoroscopy showed no marked concentration of high or low standardised rates (Map 5), but rates were nonetheless quite variable across CCGs. The national rate was 167 Fluoroscopy scans per 10,000 registered population and 66% CCGs were within one standard deviation of the mean, that is between 120 and 210 tests per 10,000 population.



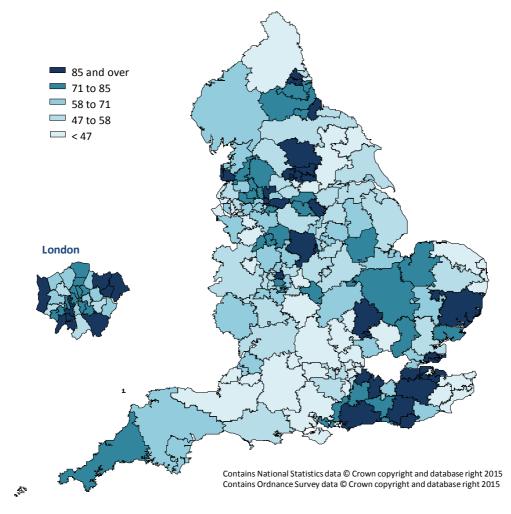






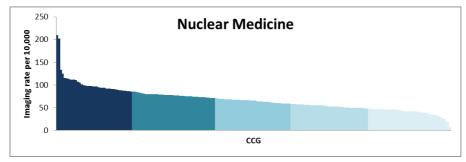
2.2.6 Nuclear Medicine

Nuclear Medicine showed considerable regional variation, with the highest rates around Medway and Swale CCGs (Map 6). The national rate was 67 Nuclear Medicine exams per 10,000 registered population and 79% CCGs were within one standard deviation of the mean, that is between 42 and 93 tests per 10,000 population.



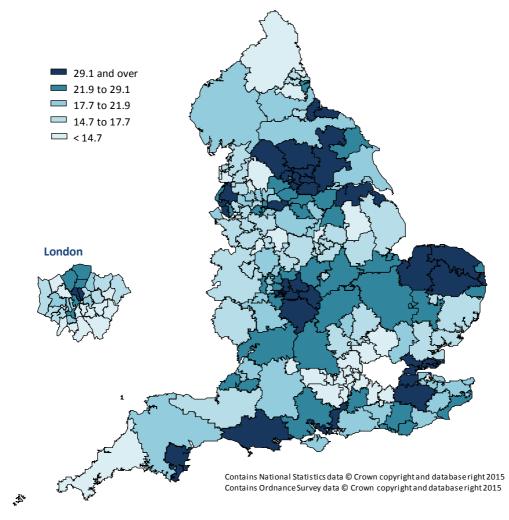
Map 6. Standardised Nuclear Medicine rates by CCG, 2016/17





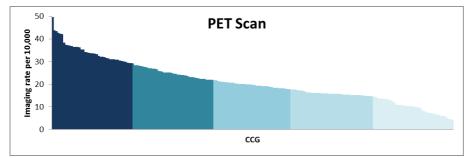
2.2.7 PET Scan

PET scan showed some regional variation, with several clusters of higher rates (Map 7). Some of the variability arose from the relatively small numbers: the national rate was 21 PET scans per 10,000 registered population and 68% CCGs were within one standard deviation of the mean between 12 and 30 tests per 10,000 population.



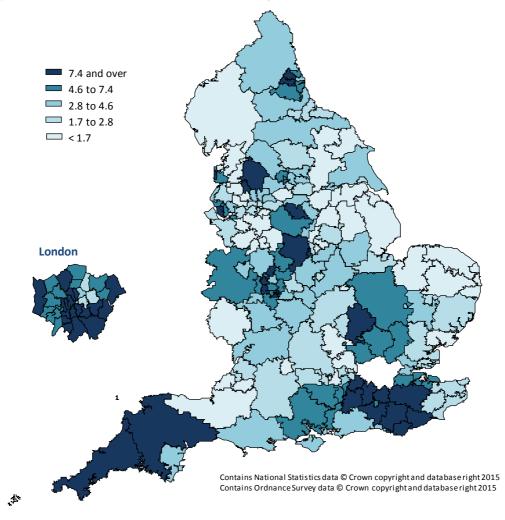
Map 7. Standardised PET Scan rates by CCG, 2016/17





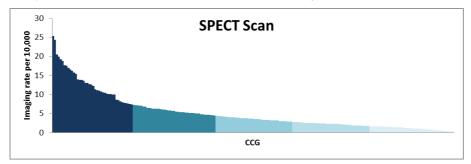
2.2.8 SPECT Scan

SPECT scan showed clusters of high rates amongst generally low rates (Map 8). The biggest volume providers of SPECT were reported in Plymouth, Derby and Sheffield, with others in and around London, leading to higher rates in those and neighbouring CCGs (Chart 8). The national rate was 6 SPECT scans per 10,000 registered population but the variance was wide and one standard deviation of the mean extended from 0 to 10 tests per 10,000 population (with 83% CCGs within this range, but some considerably higher).



Map 8. Standardised SPECT Scan rates by CCG, 2016/17

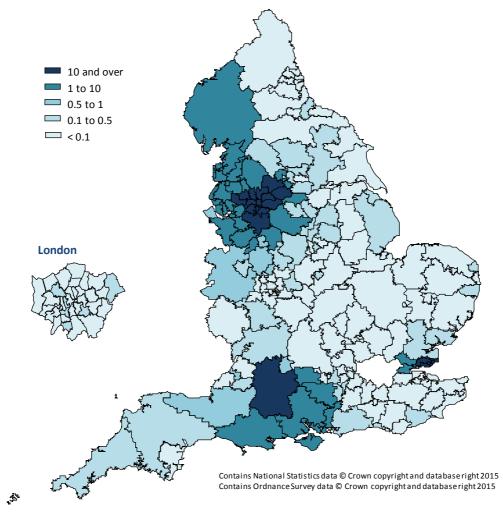




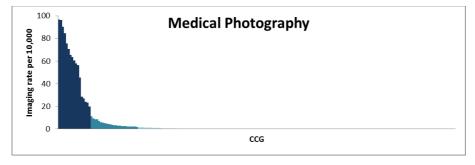
2.2.9 Medical Photography

Medical Photography showed a very marked cluster of high rates in the North West of England and Wessex (Map 9). Only nine providers nationally reported more than a few Medical Photography images in the DID, the biggest being University Hospital of South Manchester NHS Foundation Trust, Pennine Acute Hospitals NHS Trust, Salford Royal NHS Foundation Trust and Salisbury NHS Foundation Trust. The majority of CCGs had no reported Medical Photography (Chart 9).

Map 9. Standardised Medical Photography rates by CCG, 2016/17



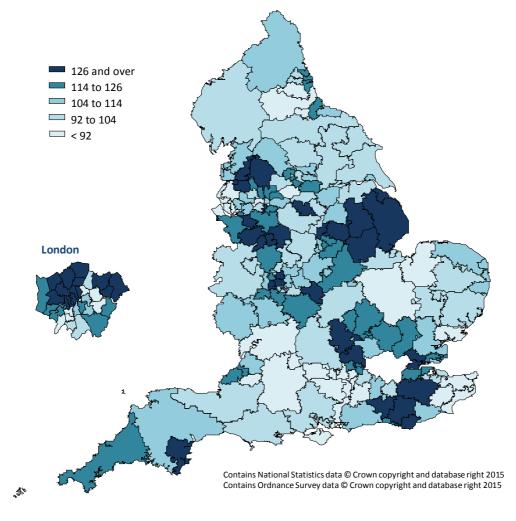


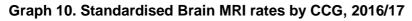


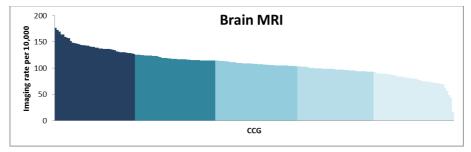
2.2.10 Brain MRI

Brain MRI showed little consistent regional variation (Map 10), as for all MRI (see section 2.2.4). High rates tended to cluster around neighbouring CCGs and many of these areas had at least one high-volume provider, but there was a wide variety of providers of different levels of activity. The national rate was 109 Brain MRIs per 10,000 registered population and 71% CCGs were within one standard deviation of the mean, between 85 and 133 tests per 10,000 population.





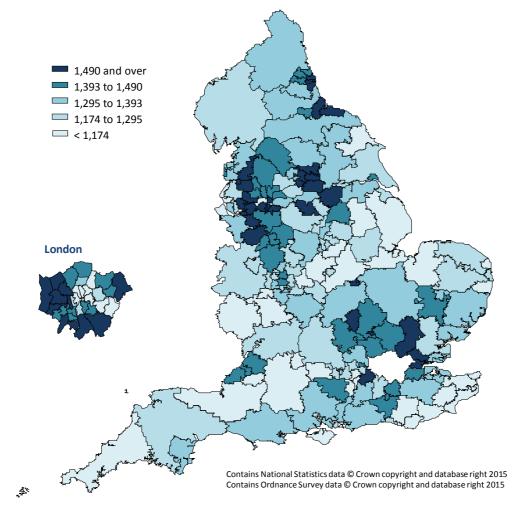




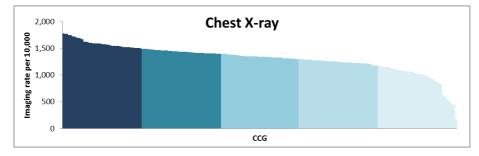
2.2.11 Chest X-ray

Chest X-ray showed less variation across CCGs than the other tests for potential early diagnosis of cancer, with much bigger numbers of tests (Map 11). The national rate was 1,313 Chest X-rays per 10,000 registered population and 77% CCGs were within one standard deviation of the mean, between 1,059 and 1,561 tests per 10,000 population.



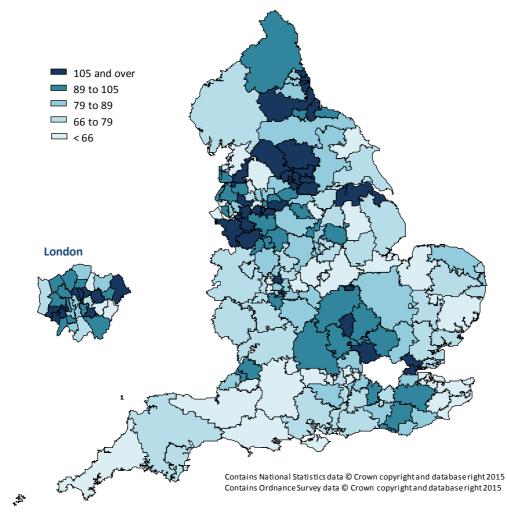


Graph 11. Standardised Chest X-ray rates by CCG, 2016/17



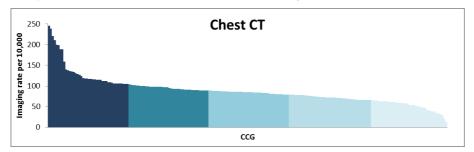
2.2.12 Chest CT

Chest CT showed some regional variation with the highest rates clustered around West Yorkshire and Lincolnshire (Map 12). The national rate was 87 Chest CTs per 10,000 registered population and 83% CCGs were within one standard deviation of the mean, between 55 and 122 tests per 10,000 population.



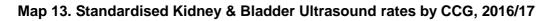


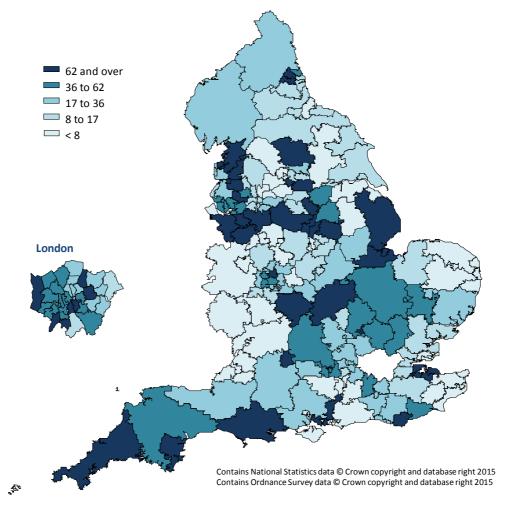
Graph 12. Standardised Chest CT rates by CCG, 2016/17

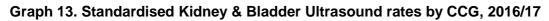


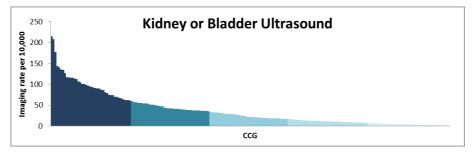
2.2.13 Kidney & Bladder Ultrasound

There was a wider range of rates of Kidney & Bladder Ultrasound than other Early Diagnosis of Cancer (EDOC) tests. Half of the CCGs, not knowingly affected by missing data, had rates less than a tenth of the highest reported (Graph 13). Both the highest rates and lowest rates were grouped together in clusters of CCGs (Map 13). The national rate was lower than for the other EDOC tests at 38 Kidney & Bladder ultrasounds per 10,000 registered population, with one standard deviation of the mean ranging from 0 to 76 tests per 10,000 population (87% CCGs within this range).





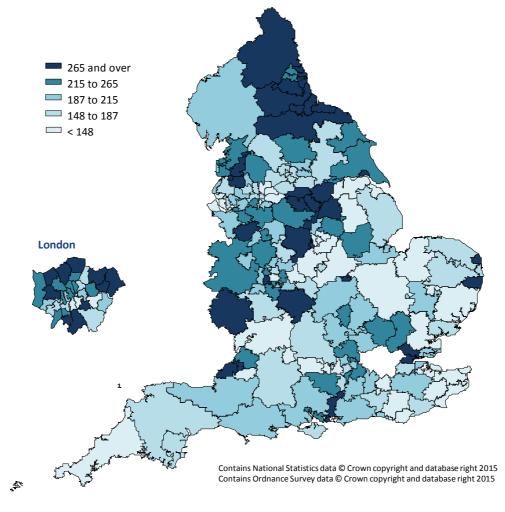




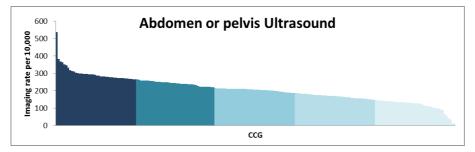
2.2.14 Abdomen & Pelvis Ultrasound

The highest rates of Abdomen & Pelvis Ultrasound were in the North, with relatively few high rates in the South and East (Map 14). The national rate was 206 Abdomen & Pelvis ultrasounds per 10,000 registered population, with one standard deviation of the mean ranging from 136 to 276 tests per 10,000 population (72% CCGs within this range).









3 Odds Ratios

3.1 Method

Three factors were considered that could have an impact on the rate of diagnostic testing: age (five year age bands⁶), sex (male and female) and deprivation (quintiles of the Index of Multiple Deprivation). Differences in the distribution of these factors across CCGs might be partially responsible for the differences in crude observed rates between CCGs. Odds ratios were used to demonstrate the impact of each factor on the rate of diagnostic testing, whilst controlling for the others. Significant differences between the odds ratios for each factor suggest that it was worth standardising for these.

Odds ratios were calculated using similar methodology to the standardised rates (above). National rates of diagnostic testing activity were calculated by two of the three factors at a time, in order to estimate expected values for the third factor (IMD, Sex or Age). For example, if odds ratios were being calculated for IMD, rates were standardised by Sex and Age. This resulted in three sets of standardised rates per 10,000 population. Odds ratios then used the following formula:

$$\text{Ratio}_2 = \frac{\left(\frac{p_2}{1-p_2}\right)}{\left(\frac{p_1}{1-p_1}\right)}$$

Where

 p_1 = standardised rate for the base category (e.g. female) p_2 = standardised rate for the comparison category (e.g. male) expressed per unit of population.

So for example the odds ratio for male X-rays was calculated by:

| | Standardised rate per 10,000 | р | р/(1-р) | Odds Ratio |
|--------|------------------------------|--------|---------|------------|
| Female | 3,875 | 0.3875 | 0.6325 | 1.00 |
| Male | 3,220 | 0.3220 | 0.4750 | 0.75 |

Note: The base level will always be set to 1 with other levels given as a ratio of this.

In this example, males were 25% less likely to have an X-ray than females, even after standardising for the effect of age and IMD.

Further statistical analysis of the odds ratios was conducted using Pearson's Chi Square test of significance.

⁶ Although five year age bands were used for analysis and standardisation, Odds ratios are given for broader age bands. This illustrates the age effect whilst overcoming the complication that p>1 for the higher 5-year age bands for some modalities.

3.2 Results

3.2.1 Sex

There was variation in how likely each gender was to have imaging by test, see Tables 1 and 2. As would be expected, men were only a third as likely to have an ultrasound (odds ratio = 0.32), however they were more likely to a have a Chest X-ray (1.13). Of these odds ratios, X-ray, Ultrasound, MRI, Chest X-ray and Abdomen or Pelvis Ultrasound were found to be significant.

Table 1. Sex odds ratios by modality, 2016/17

| | X-ray | Ultrasound | CT Scan | MRI | Fluoro- scopy | Nuclear Medicine | PET Scan | SPECT Scan | Medical Photography |
|--------|---------|------------|------------|--------|------------------|---------------------|-------------|---------------|------------------------|
| Female | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Male | 0.75*** | 0.32*** | 0.99 | 0.84** | 1.02 | 0.82 | 1.22 | 0.75 | 0.91 |

| Table 2. Sex odds ratios b | y Early | Diagnosis of | Cancer, 2016/17 |
|----------------------------|---------|--------------|-----------------|
|----------------------------|---------|--------------|-----------------|

| | Brain MRI | Chest X-ray | Chest CT | Kidney or Bladder Ultrasound | Abdomen or Pelvis Ultrasound |
|--------|-----------|-------------|----------|---------------------------------|---------------------------------|
| Female | 1.00 1.00 | | 1.00 | 1.00 | 1.00 |
| Male | 0.83 | 1.13** | 1.20 | 0.96 | 0.68*** |

3.2.2 Deprivation

There appears to be a consistent tendency for areas of highest deprivation to have most imaging tests, see Tables 3 and 4. Deprivation was significant at all levels for Xray, Ultrasound, CT and Chest X-ray, whilst the two or three least deprived quintiles were significantly different from the most deprived for MRI, Fluoroscopy, Chest CT and Abdomen or Pelvis Ultrasound. The odds ratio for Medical Photography showed the lowest values for all groups compared to the most deprived areas, but this may be coincidental as relatively few areas report Medical Photography in the DID.

Table 3. Deprivation odds ratios by modality, 2016/17

| | X-ray | Ultrasound | CT Scan | MRI | Fluoro- scopy | Nuclear Medicine | PET Scan | SPECT Scan | Medical Photography |
|---------------------|---------|------------|------------|-------------------|--------------------|---------------------|-------------|---------------|------------------------|
| 1 Most deprived | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 More deprived | 0.82*** | 0.86*** | 0.85** | 0.95 | 0.89 | 0.92 | 0.86 | 0.94 | 0.57 |
| 3 Mid quintile | 0.71*** | 0.82*** | 0.76*** | 0.89 | 0.84 | 0.85 | 0.82 | 0.84 | 0.47 |
| 4 Less deprived | 0.65*** | 0.78*** | 0.71*** | 0.86 [*] | 0.79 [*] | 0.82 | 0.76 | 0.78 | 0.46 |
| 5 Least deprived | 0.58*** | 0.74*** | 0.65*** | 0.81** | 0.74 ^{**} | 0.79 | 0.71 | 0.78 | 0.44 |

significant at p < 0.05

significant at p < 0.01

significant at p < 0.001

| | Brain MRI | Chest X-ray | Chest CT | Kidney or Bladder Ultrasound | Abdomen or Pelvis Ultrasound |
|------------------|-----------|-------------|-------------|---------------------------------|---------------------------------|
| 1 Most deprived | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 More deprived | 0.94 | 0.80*** | 0.80 | 0.99 | 0.88 |
| 3 Mid quintile | 0.89 | 0.68*** | 0.69** | 0.82 | 0.78** |
| 4 Less deprived | 0.85 | 0.61*** | 0.63** | 0.79 | 0.71** |
| 5 Least deprived | 0.80 | 0.54*** | 0.57*** | 0.73 | 0.65*** |

Table 4. Deprivation odds ratios by Early Diagnosis of Cancer, 2016/17

3.2.3 Age

Age has the largest impact on the likelihood of having an imaging test, with the age band of 75 or older showing much higher odds ratios across all modalities and early diagnosis of cancer tests compared with age under 45. All modalities and EDOCs have a significant result for the 65+ age bands. Other age bands were also significantly higher than the 0 to 45 group with the exception of ultrasound, which varies least by age perhaps because of a large number of obstetric ultrasounds for pregnant women, and the modalities with small numbers (SPECT Scan and Medical Photography). Full breakdowns are given in Tables 5 and 6.

Table 5. Age band odds ratios by modality, 2016/17

| | X-ray | Ultrasound | CT Scan | MRI | Fluoro- scopy | Nuclear Medicine | PET Scan | SPECT Scan | Medical Photography |
|----------|----------|------------|------------|----------|------------------|---------------------|-------------|-------------------|------------------------|
| 0 - <45 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 45 - <55 | 2.09*** | 1.05 | 3.17*** | 2.30*** | 2.59*** | 3.09*** | 4.59** | 2.46 | 1.99 |
| 55 - <65 | 3.66*** | 1.04 | 5.31*** | 2.70*** | 4.15*** | 5.33*** | 9.90*** | 4.28 [*] | 3.00 |
| 65 - <75 | 23.41*** | 1.24*** | 9.44*** | 3.06*** | 6.07*** | 8.60**** | 17.88**** | 7.39** | 4.44* |
| 75+ | 23.41 | 1.50*** | 20.19*** | 2.60**** | 7.83*** | 9.42*** | 16.29*** | 8.58** | 11.11*** |

Note: Due to limitations in the odd ratio methodology it was not possible to calculate ratios for the 75+ x-rays category (p>1). The odds ratio for 65+ has been reported instead.

Table 6. Age band odds ratios by Early Diagnosis of Cancer, 2016/17

| | Brain MRI | Chest X-ray | Chest CT | Kidney or Bladder Ultrasound | Abdomen or Pelvis Ultrasound |
|----------|-----------|-------------|----------|---------------------------------|---------------------------------|
| 0 - <45 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 45 - <55 | 1.86*** | 2.44*** | 4.78*** | 1.52 | 1.93*** |
| 55 - <65 | 2.21*** | 4.16*** | 10.09*** | 1.94 [*] | 2.29*** |
| 65 - <75 | 2.67*** | 7.66*** | 18.54*** | 2.95*** | 2.60*** |
| 75+ | 2.96*** | 23.36*** | 23.62*** | 4.95*** | 3.14*** |

4 Conclusion

After standardising the DID for age, sex and deprivation differences between CCGs, there were a number of modalities with regional variation in the rates of imaging per 10,000 population. Some modalities had higher rates of diagnostic imaging in the North region, particularly X-ray and Ultrasound. Although there were big differences in the CT and Fluoroscopy rates between CCGs, these show little regional consistency, whilst the modalities with lower activity show different patterns of variation. However, some of the lowest rates result from missing activity or poor coding by submitting organisations resulting in activity not being reported against their CCGs, which generally affects all modalities for those areas.

Based on the odds ratio calculations, age has the strongest impact on the rate of imaging procedures, particularly the over 75 age band. Over 65s were over 23 times more likely to have an X-ray than those who were under 45. Ultrasound has the least variation by age band.

In general, sex was not a significant factor in the likelihood of having a diagnostic imaging procedure, with the exceptions of X-ray, ultrasound and MRI. Women were three times as likely to have an ultrasound than men, which is expected given the number of obstetric ultrasounds reported in DID.

The odds ratios for deprivation suggest that imaging increases with increased deprivation, with significant differences for all deprivation levels in the three largest modalities: X-ray, Ultrasound and CT Scans.

5 Annex

5.1 Annex A - Data quality and the impact of missing GP practice

The CCG of patients in the DID is derived from their GP Practice code. Nationally, the CCG in DID was missing or unknown for 6.9% imaging activity in 2016/17 (down from 9% in 2015/16). Some of this reflects valid non-English or other GP Practices (e.g. prisons and Ministry of Defence practices) and some is where there is no Registered GP Practice (V81997) or GP Practice Code is not applicable (V81998), but the majority either had GP Practice Code not known (V81999) or missing data.

Where there was no derived CCG, the activity was omitted from the CCG imaging rates. Many of the lowest CCG imaging rates had these shortfalls, but they also affected some CCGs with higher rates.

An estimate of how the activity with missing GP Practice information might be split between CCGs was made using the Monthly Diagnostic Waiting times and Activity return (DM01) for 2016/17. DM01 is collected by provider and commissioner, so each CCG's share of each provider's diagnostic imaging test activity from DM01 was used to pro-rate the missing GP Practice tests from DID (defined as GP Practice code V81997 to V81999 or unknown). The CCGs thought to be missing at least 10% of their activity and 10,000 tests from at least one of their providers across all modalities are listed in Table A.1 (ranked in descending order of the estimated number of omitted tests).

Table A.1. CCGs with suspected shortfalls of more than 10% and 10,000 imaging tests in the
Diagnostic Imaging Dataset, 2016/17

| CCG Provider | Total reported imaging tests ⁽¹⁾ | Estimated % imaging tests missing | Estimated no. tests missing ⁽²⁾ of which, from this provider ⁽³⁾ | Percent of GP practice missing for this Trust ⁽⁴⁾ |
|---|--|--|---|---|
| NHS Wirral CCG Wirral University Teaching Hospital NHS FT | 38,000 | 89% | 301,000 298,000 | 100% |
| NHS South Kent Coast CCG East Kent Hospitals University NHS FT | 72,000 | 64% | 125,000 124,000 | 67% |
| NHS Newcastle Gateshead CCG The Newcastle Upon Tyne Hospitals NHS FT | 353,000 | 24% | 112,000 110,000 | 42% |
| NHS Canterbury and Coastal CCG East Kent Hospitals University NHS FT | 61,000 | 63% | 106,000 105,000 | 67% |
| NHS Thanet CCG East Kent Hospitals University NHS FT | 50,000 | 63% | 86,000 85,000 | 67% |
| NHS Ashford CCG East Kent Hospitals University NHS FT | 42,000 | 62% | 67,000 67,000 | 67% |
| NHS Warwickshire North CCG George Eliot Hospital NHS Trust | 95,000 | 39% | 60,000 58,000 | 51% |
| NHS Newham CCG Barts Health NHS Trust | 204,000 | 21% | 53,000 50,000 | 21% |
| NHS Salford CCG Salford Royal NHS FT | 153,000 | 25% | 50,000 48,000 | 39% |
| NHS North East Hampshire and Farnham CCG Frimley Health NHS FT | 85,000 | 32% | 40,000 39,000 | 31% |
| NHS Tower Hamlets CCG Barts Health NHS Trust | 146,000 | 20% | 37,000 35,000 | 21% |
| NHS Slough CCG Frimley Health NHS FT | 96,000 | 25% | 32,000 31,000 | 31% |
| NHS North Tyneside CCG The Newcastle Upon Tyne Hospitals NHS FT | 166,000 | 17% | 33,000 31,000 | 42% |
| NHS Northumberland CCG The Newcastle Upon Tyne Hospitals NHS FT | 261,000 | 12% | 35,000 31,000 | 42% |
| NHS Waltham Forest CCG Barts Health NHS Trust | 156,000 | 17% | 32,000 30,000 | 21% |
| NHS Windsor, Ascot and Maidenhead CCG Frimley Health NHS FT | 88,000 | 23% | 27,000 26,000 | 31% |
| NHS South Sefton CCG Aintree University Hospital NHS FT | 98,000 | 21% | 25,000 24,000 | 31% |
| NHS City and Hackney CCG Homerton University Hospital NHS FT | 179,000 | 12% | 24,000 17,000 | 12% |
| NHS Liverpool CCG Aintree University Hospital NHS FT | 365,000 | 8% | 34,000 23,000 | 31% |
| NHS Bracknell and Ascot CCG Frimley Health NHS FT | 64,000 | 25% | 21,000 21,000 | 31% |

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| CCG Provider | Total reported imaging tests ⁽¹⁾ | Estimated % imaging tests missing | Estimated no. tests missing ⁽²⁾ of which, from this provider ⁽³⁾ | Percent of GP practice missing for this Trust ⁽⁴⁾ |
|---|--|--|---|---|
| NHS Chiltern CCG Frimley Health NHS FT | 228,000 | 10% | 25,000 13,000 | 31% |
| NHS Surrey Heath CCG Frimley Health NHS FT | 45,000 | 30% | 20,000 19,000 | 31% |
| NHS Wandsworth CCG St George's University Hospitals NHS FT | 189,000 | 9% | 19,000 14,000 | 10% |
| NHS East Staffordshire CCG Burton Hospitals NHS FT | 89,000 | 13% | 14,000 13,000 | 14% |
| NHS Redbridge CCG Barts Health NHS Trust | 214,000 | 7% | 17,000 13,000 | 21% |
| NHS Lambeth CCG Guy's And St Thomas' NHS FT | 205,000 | 9% | 20,000 12,000 | 10% |
| NHS Southwark CCG Guy's And St Thomas' NHS FT | 205,000 | 8% | 18,000 11,000 | 10% |

Notes

Total reported imaging tests (all modalities) where GP practice is valid and matches to the CCG.
Estimated missing imaging tests for CCG based on DID activity reported without a valid GP Practice at its providers. Providers for each CCG were identified using the Diagnostic Waiting times and Activity return for 2016/17 (DM01, all diagnostic imaging tests).
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(3) Share of this provider's imaging tests with missing GP Practice that are estimated to be for this CCG. Providers with fewer than 10,000 missing tests for this CCG are omitted from the list.

(4) Percentage of all imaging activity for this provider where the GP practice code is missing or unknown.
FT = Foundation Trust

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5.2 Annex B - CCG Standardised Imaging Rates per 10,000, 2016/17

See separate excel file (Annex 4a – DID Standardised CCG Rates 2016-17).

5.3 Contact Us

5.3.1 Feedback

We welcome feedback on this publication. Please contact us at did@dh.gsi.gov.uk

5.3.2 iView

The HSCIC allow health sector colleagues to access DID information through their webbased reporting tool, iView. Registered users can access anonymised data at aggregate level in a consistent and flexible format:

- Access Information choose from a variety of data areas.
- Build Reports select data to suit your needs.
- Generate Charts customise report tables and graphs.
- **Export Data** copy to Excel and manipulate data your way.
- **Save Reports** store your favourite views for future use.

For more information, please visit the iView website <u>http://content.digital.nhs.uk/iview.</u> If you would like to register to use iView for DID, please email <u>enquiries@nhsdigital.nhs.uk</u> (subject: DID iView Access).

5.3.3 Websites

The DID information website can be found here: <u>http://content.digital.nhs.uk/DID</u>.

The DID Tables and Reports can be found here: http://www.england.nhs.uk/statistics/diagnostic-imaging-dataset/

5.3.4 Additional Information

For press enquiries contact the NHS England Media team on 0113 825 0958 or 0113 825 0959. Email enquiries should be directed to nhsengland.media@nhs.net

The Government Statistical Service (GSS) statistician responsible for producing these data is:

Sheila Dixon Operational Information for Commissioning NHS England Room 5E24, Quarry House, Quarry Hill, Leeds LS2 7UE Email: did@dh.gsi.gov.uk