National Lung Cancer Audit Report 2012

Report for the audit period 2011



Prepared in partnership with:



The Healthcare Quality Improvement Partnership (HQIP) promotes quality in healthcare. HQIP holds commissioning and funding responsibility for the National Lung Cancer Audit and other national clinical audits as part of the National Clinical Audit & Patient Outcomes Programme (NCAPOP).



Health and Social Care Information Centre (HSCIC) is England's central, authoritative source of essential data and statistical information for frontline decision makers in health and social care. The HSCIC managed the publication of the 2011 annual report.



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Purpose

The purpose of this document, the eighth annual report of the National Lung Cancer Audit, is to summarise the key findings of the audit for patients diagnosed with lung cancer or mesothelioma who were first seen in 2011. The history, purpose and methodology of the audit have been extensively documented and further details can be obtained from the HSCIC Website.

Based on the comments of service users we have again produced this short report highlighting key issues. More extensive analyses on the 2011 data, including case mixadjusted data in an electronic spreadsheet format will be available from the HSCIC website in due course (http://www.ic.nhs.uk/lung)

Every trust or health board in England, Wales and Scotland have participated in the audit however because of differences in reporting schedules, standards and targets the Scottish data are tabulated separately. Northern Ireland and Guernsey have also participated in the audit. Unfortunately the Northern Ireland data was not available in time to be included in this report but will be made available electronically.

Details of care provided by individual organisation in this report is based on "place first seen" in secondary care. Place first seen is chosen since in the vast majority of cases it represents the location of the multidisciplinary team that co-ordinates the investigation and treatment of the individual patient. As a result some tertiary centres may appear to have little input into the care of lung cancer and mesothelioma patients and to submit little data to the audit, however, on the contrary, they usually provide the most complex care for the most difficult patients and submit treatment data on behalf of other organisations. Information about the number and types of treatment provided by these tertiary centres is provided in figure 6.

All data presented refers to cases submitted to the National Lung Cancer Audit unless otherwise stated.

Key messages

- The audit has collected data on 38,528 patients in Great Britain for this audit period, representing approximately 93 per cent of the expected number of new lung cancer cases. This is thought to represent almost all cases of lung cancer presenting to secondary care.
- The quality of the submitted data is of a high standard and has shown further improvements compared to earlier years, once again allowing detailed comparison of cancer networks, hospital trusts or health boards. Collection of high quality data has become embedded practice for most lung cancer teams, whilst overall there is little scope for improvement, a few individual organisations should review their processes for data collection in order to improve the validity of their submissions. This is particularly relevant to data on Disease Stage and Performance Status.
- Recording of co-morbidity and lung function is generally poor. Organisations should endeavour to collect this data to the same standard as other data items, in order to improve the accuracy of case-mix adjustment and therefore the comparison of organisations performance.

- Some organisations continue to submit data that indicates sub-optimal care, both in terms of the investigative/diagnostic pathway and the treatments given to patients. It is not good enough to blame such results on poor quality data submitted to the audit, clinical teams need to take more responsibility for the data that is submitted to the audit, since good data is the cornerstone of quality improvement.
- Overall measures of the standards of care are largely similar to those seen last year, albeit with small rises in the proportion of patients having surgery, and anti-cancer treatment. In many cases the measures of treatment now approach those seen in other Western Healthcare systems. Despite these improvements, there remains marked variation across trusts, health boards and networks and differences in case-mix do not appear to explain the whole of this variation. Poor data completeness in a few areas, especially where trusts fall at the lower extreme of these measures, may contribute to some of the variation seen.

1: Percentage of patients receiving a histological / cytological diagnosis												
England and Wales Scotland Guernsey												
	2011	2010	2009	2011	2010	2009	2011	2010				
n	33,463	32,347	32,068	4,655	4,427	4,234	41	42				
Mean	76.9	76.0	75.6	71.8	77.1	77.7	75.6	95.2				
Lower Quartile	72.1	70.5	70.9	68.1	70.0	69.5	n/a	n/a				
Median	78.0	76.5	77.5	74.2	75.3	76.1	n/a	n/a				
Upper Quartile	83.5	83.6	85.2	78,1	79.4	81.4	n/a	n/a				

2: Percentage of p	atients receiving	g an operation*							
	England and V	Nales		Scotland		Guernsey	Guernsey		
	2011	2010	2009	2011	2010	2009	2011	2010	
n	33,463	32,347	32,068	4,655	4,427	4,234	41	42	
Mean	14.7	13.7	13.7	10.7	11.1	11.3	7.3	11.9	
Lower Quartile	11.0	9.4	9.7	8.9	7.6	7.2	n/a	n/a	
Median	14.0	13	12.4	10.6	9.9	10.0	n/a	n/a	
Upper Quartile	16.5	17.1	16.1	11.5	11.7	11.5	n/a	n/a	
* Proportion of pa	atients with histo	ologically confirmed	d NSCLC receiving	surgical resection i	s shown in Table 2				

3: Percentage of patients receiving any anti cancer treatment											
	England and V	Vales		Scotland		Guernsey	Guernsey				
	2011	2010	2009	2011	2010	2009	2011	2010			
n	33,463	32,347	32,068	4,655	4,427	4,234	41	42			
Mean	60.1	58.4	59.1	59.7	63.9	64.6	56.1	69.0			
Lower Quartile	55.0	52.4	54.0	56.9	57.4	58.0	n/a	n/a			
Median	59.9	59.8	60.5	60.4	61.6	62.4	n/a	n/a			
Jpper Quartile	65.7	64.8	66.5	65.3	66.8	69.2	n/a	n/a			

4: Percentage of patients receiving a CT scan before bronchoscopy **England and Wales** Scotland Guernsev 2009 2011 2010 2009 2011 2010 2011 2010 33 463 32.347 32.068 4.655 4.427 4,234 42 41 94.7 80.0 87.8 84.8 80.7 91.1 92.2 86.4 Mean 83.2 74.4 74.2 91.0 86.3 81.3 n/a Lower Quartile n/a 92.5 82.4 93.6 83.5 Median 89.4 86.1 n/a n/a 94.7 91.5 95.8 91.4 Upper Quartile 93.2 97.1 n/a n/a

5: Percentage of p	atients discussed a	t MDT									
England and Wales Scotland Guernsey											
	2011	2010	2009	2011	2010	2009	2011	2010			
n	33,463	32,347	32,068	4,655	4,427	4,234	41	42			
Mean	96.2	96.4	94.1	95.3	94.4	95.3	100.0	n/a			
Lower Quartile	95.1	94.6	92.2	92.3	86.6	91.5	n/a	n/a			
Median	98.1	97.6	96.5	97.7	95.6	93.6	n/a	n/a			
Upper Quartile	99.3	99.2	98.9	98.9	97.1	98.1	n/a	n/a			

- There is good evidence that the audit data has been used in many organisations to drive service improvement and by inference improve the standards of care and patient outcomes. As with the issues over data quality, there remains an urgent need for all cancer networks, trusts and health boards to take responsibility for their data and use it to review and improve their local lung cancer services. This report contains a toolkit to help with this process.
- Patients, patient advocates and service commissioners have an important role to play in challenging lung cancer teams to explain and improve their performance.

Case Study 1 Royal Cornwall Hospitals NHS Trust (REF): Improved pathology turnaround times

The lung cancer team at Royal Cornwall Hospitals used the Improving Lung Cancer Outcomes project (which used NLCA data to underpin its methodology) to speed up the processing and review of bronchial biopsy specimens.

The team worked closely with their pathology department colleagues. A number of steps were taken:

- They established the key timings of the various pathology processes which would enable results to be ready for discussion by the team (next day).
- The team found ways to meet those timings, which included the hand delivery of specimens to the pathology department, immediately after clinic, and making sure the samples were prepared and set in fixative the same night.

As a result of the team's improvement efforts:

- bronchial biopsy specimens are consistently ready for review by the team within 24 hours
- the length of time that patients wait to receive a lung cancer diagnosis is reduced

The Royal Cornwall Hospitals NHS Trust lung cancer team lead said:

'We gained an insight into the workings and difficulties of pathology department that we worked alongside but rarely communicated with. In taking part in the project, time was set aside to discuss and agree on changes that resulted in improved turnaround of results. The net benefit was bronchoscopy biopsies were available (cancer: yes or no) to be discussed at the meeting that week.'

Recommendations (England and Wales)

- All hospitals trusts and health boards should participate in this national audit, should submit data on all patients presenting to secondary care diagnosed with either lung cancer or mesothelioma, and should complete all relevant data fields for each individual patient.
- 2. Data completeness for key fields should exceed 85 per cent and for MDT completeness should exceed 95 per cent (See appendix 2 Local Action Plan).
- 3. Data completeness for the co-morbidity field should exceed 85 per cent, and for patients with Stage I-II and PSO-1, completeness for FEV1 and FEV1% should exceed 75 per cent.
- 4. Maintain the level of 95 per cent of patients submitted to the audit being discussed at a Multidisciplinary Team Meeting.
- 5. Histological/Cytological confirmation rates below 75 per cent should be reviewed to determine whether best practice is being followed and whether patients have access to the whole range of biopsy techniques.
- 6. Non Small Cell Lung Cancer, not otherwise specified (NSCLC NOS) rate of more than 20 per cent should be reviewed to ensure that best practice histological diagnostic techniques including immunohistochemistry are being followed, in order that patients receive appropriate chemotherapy regimens.
- 7. At least 80 per cent of patients are seen by a lung cancer specialist nurse; at least 80 per cent of patients should have a lung cancer specialist nurse present at the time of diagnosis (note that these data are not available for Wales).
- 8. For patients undergoing bronchoscopy at least 95 per cent should have a CT scan prior to the procedure.
- 9. Surgical resection rates for NSCLC below the England and Wales average of 14 per cent should be reviewed. Furthermore for early stage (I and II) disease, rates below 52 per cent should be reviewed to ensure that patient on the margins of operability/resectability are being offered access to specialist thoracic surgical expertise (including second opinions).
- 10. Active anti-cancer treatment rates below the England and Wales average of 60 per cent should be reviewed.
- 11. Chemotherapy rates for small cell lung cancer below the England and Wales average of 65 per cent should be reviewed.
- 12. Chemotherapy rates for good performance status (0-1) stage IIIB / IV NSCLC lung cancer below the England and Wales average of 55 per cent should be reviewed.

A local action planning toolkit is provided at the end of this document to assist organisations in benchmarking against these quality measures. All organisations are encouraged to use the audit data to drive their service development in order to improve the standard of care for lung cancer patients. Organisations whose results in 2011 meet these recommendations should work to maintain their high standards and exceed them where appropriate.

It is important to stress that these quality measures are not targets, since in some cases there will be valid reasons for variation, such as case-mix and patient choice. Where applicable, organisations should take the case-mix adjusted results (to be published separately) into consideration in the evaluation of their service, although it is noted that in general case-mix does not explain the whole of the variation in practice across organisations.

Performance against these recommendations is highlighted by a system of colour-coding in the data tables (for England).

Scotland

The above recommendations do not apply to Scotland, therefore the data in the tables are not colour coded. NHS Quality Improvement Scotland published National Lung Cancer Standards in March 2008. Health boards in all Scottish networks participate in comparing 2011 results measured against these standards, and where variance is shown action plans can be developed by networks and health boards and monitored by Regional Cancer Advisory Groups.

As part of the Scottish Government's National Cancer Quality Programme new Quality Performance Indicators (QPIs) for Lung Cancer will be implemented in 2013 and will be subject to a clinical governance process through Healthcare Improvement Scotland which has overall responsibility for monitoring the quality of cancer care.

Northern Ireland

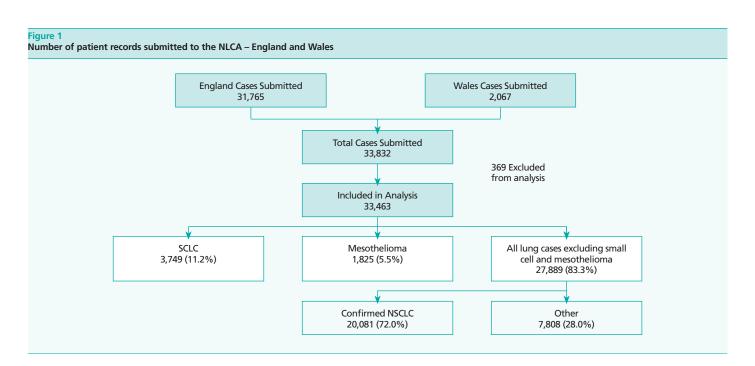
Northern Ireland participated in the audit for the third time this year; their data will be published electronically in due course. In general, Northern Ireland follow the standards and recommendations for England and Wales.

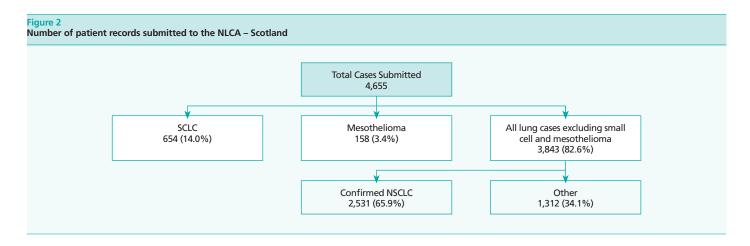
Summary details of key findings

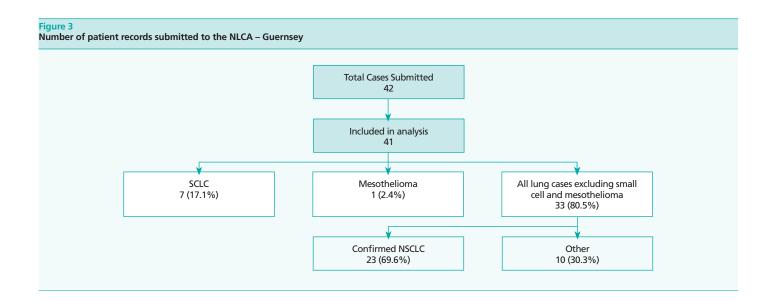
How many people were diagnosed with lung cancer?

In 2011 there were 33,832 patient records submitted from England and Wales (figure 1), 4655 submitted from Scotland (figure 2), and 41 submitted form Guernsey (figure 3). Combined, this is approximately 93 per cent of the expected annual incidence and probably almost all of those cases presenting to secondary care (some cases are diagnosed and treated in primary care, or are diagnosed at a post-mortem).

Of these records, 370 were not suitable for further analysis (mainly from the English submissions) as there was no "date first seen" recorded, meaning that it was not possible to be certain that these were cases from 2011. Figures 1, 2, and 3 show the incidence by cancer type.







How accurate are the data in this report?

Data submitted to the National Lung Cancer Audit need to be as complete as possible in terms of healthcare organisation participation, population coverage and data field completeness both to ensure the representative nature of the information and to make case-mix adjustment possible. Please refer to previous versions of the Annual Report for a full explanation of this issue.

Healthcare Organisation Participation

Every trust or health board in England and Wales, and every health board in Scotland has participated in the audit. Princess Elizabeth Hospital, Guernsey has also participated in the audit. Northern Ireland participated, however their data is not shown in this report.

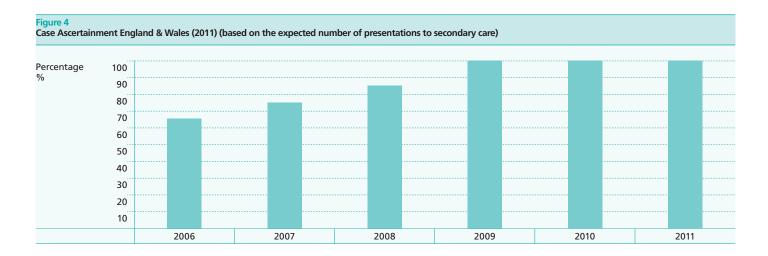
Population Coverage

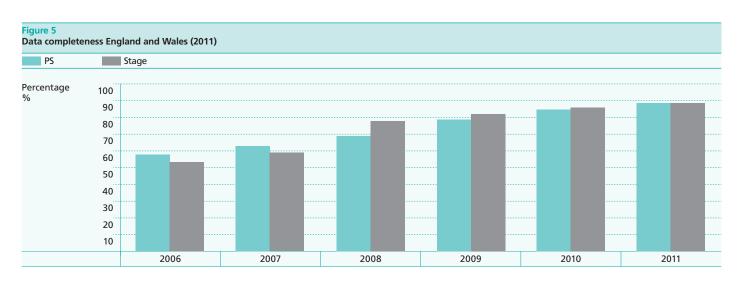
Figures 1-3 show that the audit has captured approximately 93 per cent of the expected number of cases nationally and almost all of those presenting to secondary care. The "Data Completeness" section in table 1a shows the number of cases and per cent of expected cases (based on historic cancer registry returns) submitted by network, trust or health board (key to codes are given in appendix 1) across England and Wales. table 1b shows similar data for Scottish networks, and 1c for Guernsey. These results were very important in the early days of the audit, but since data submissions reached around 100 per cent of expected (figure 4), they have become less so. However, they can still be useful in interpreting "odd" results in the performance data.

The colour coding in the tables for England reflects the targets set in the 2010 Local Action Plan (LAP). Note that for case ascertainment (per cent of expected), to achieve green status over 75 per cent of the expected number of cases must have been submitted, trusts attaining 50 – 75 per cent are coded amber whilst trusts submitting less that 50 per cent of the expected number are coded red. Trusts with a high tertiary workload or where the targets are known to not be applicable for other reasons are shown in blue throughout. Many of the trusts in this category fully participate in the audit by submitting treatment data for other trusts. However their full contribution to the audit process may not be reflected by the way these audit results are presented. The treatment data entered by these trusts are shown in figure 6

Data Field Completeness

Similarly, tables 1a-1c indicate the data completeness for the key non-mandatory fields of Stage and Performance Status (PS) and the data completeness for the MDT discussion indicator and for the recording of treatment. Comparison with previous years (figure 5 for England and Wales) shows that data field completeness continues to improve. In Scotland data completeness shows continued high levels.





What is the standard of care given to patients?

Table 2a lists headline indicators (Process, Specialist Nursing, Imaging and Outcome for England and Wales) by network, trust or health board (key to codes given in appendix 1) for all lung cancer and mesothelioma cases across England and Wales. These indicators have been chosen to reflect the overall standard of care provided to patients. In interpreting these figures, the above caveats regarding data completeness referred to previously must be borne in mind. Furthermore, the results as presented do not take into account the casemix of patients. Adjustments to the results to account for case-mix will be available from the HSCIC website in due course. Where applicable, organisations should take the case-mix adjusted results into consideration in the evaluation of their service since although case-mix does not explain the whole of the variation in practice across organisations, it may show a particular result to be, or not to be, a statistical outlier. The colour coding in the tables for England reflects the targets set in the 2010 Local Action Plan (LAP).

Whilst some of the headline indicators relate to Wales, not all do this is because there are additional indicators agreed by the Cancer National Specialist Advisory Group (NSAS) lung cancer sub group that are audited internally in Wales.

Similar data for Scotland are shown in table 2b. LAP targets do not apply to Scotland; hence the data are not colour coded. National Lung Cancer Standards published by NHS Quality Improvement Scotland in 2008 include standards for rate of histological confirmation (minimum 75 per cent) and percentage SCLC having chemotherapy (minimum 60 per cent) however these do not specify rates of resection or anticancer treatment.

Data for Guernsey are shown in table 2c

Improvements in Care

Further details of the changes in the key outputs of the audit are shown in the tables in the "Key Messages" section on page 5. For England and Wales, the proportion of patients receiving a histological/cytological diagnosis shows a marginal increase to 76.9 per cent the proportion of patients discussed at an MDT remains stable at 96 per cent, and an increase to almost 88 per cent in the proportion of patients who receive a CT scan prior to a bronchoscopy procedure. The anti-cancer treatment rate and the overall surgical treatment rate have both increased by one percentage point this year to 60.1 per cent and 14.7 per cent respectively.

It is clear from the information in the results tables that there remains a marked variation in the outputs that the audit measures across organisations. This is apparent both at network and even more markedly at trust or health board level. In the latter case, some of the more extreme variation is explained by low numbers of cases, or poor quality data, so a useful way of reporting the variation is the "interquartile range" (IQR), describing the range of values in the middle 50 per cent. In England and Wales, the IQR for histological/ cytological confirmation is 72.1-83.5 per cent, for surgical treatment it is 11.0-16.5 per cent whilst for anti-cancer treatment it is 55.0-65.7 per cent. Similar variation is apparent for Scotland and Guernsey.

Case Study 2 Essex Cancer Network Improves Surgical Resection Rate

Previous NLCA audit reports showed resection rates for Essex Cancer Network (N38) were low and especially at Southend University Hospital NHS Foundation Trust (RAJ). As a result of the NLCA publication this became the focus of a network wide audit and the following changes were made to clinical practice:

- 1. The lead clinicians have meetings with the radiologist to discuss CT scans and plan staging and diagnostics
- 2. All patients of borderline fitness for surgery were seen by a cardiothoracic surgeon
- 3. If the patient was turned down by the surgeon at the MDT, the patient was to be offered a second opinion if felt appropriate by the referring physician
- 4. All patients with metastases on a PET scan were confirmed by biopsy

These changes resulted in a doubling of resection rate in the first six months of 2012 and that trend is continuing. The main difference has not been the surgeons taking on more borderline cases in terms of fitness though this has certainly contributed, but more aggressive staging.

For example - a man with bilateral lung nodules and mediastinal lymph nodes on PET had an EBUS followed by a mediastinotomy followed by wedge resection of one nodule which turned out to be benign and finally a lobectomy for a T1b N0 adenocarcinoma.

Case-Mix Adjustment

A typical explanation for different audit results from different organisations (trusts, health boards or cancer networks) is that there is a different "case-mix". For example, a organisation with a low treatment rate might argue that the patients they treat are older, more socially deprived, have more advanced disease, or poorer fitness (performance status).

The National Lung Cancer Audit collects data that allows such factors to be taken into account. Taking anti-cancer treatment as an example, a statistical technique known as "logistic regression" calculates the likelihood of a patient in an organisation getting treatment compared to a baseline (typically the largest organisation) assuming that patients are matched for their case-mix.

This measure of likelihood of treatment is called an "odds ratio". The baseline organisation will always have an odds ratio of 1.0. If organisation X has an odds ratio of 0.9, we can say that patients in that hospital are 10 per cent less likely to have treatment (1.0 minus 0.9, converted to a percentage). Odds ratios have a further benefit, in that they provide so-called "confidence intervals", indicating how confident we can be that the observed differences are statistically important.

Improvements in data collection mean that stage and performance status are now recorded in around 90 per cent of cases. In order to further refine the statistical analyses, it is important in future that organisations improve recording of co-morbidity and lung function. As mentioned in "Key Recommendations", we have suggested that data completeness for the co-morbidity field should exceed 85 per cent and for patients with Stage I-II and PSO-1, completeness for FEV1 and FEV1% should exceed 75 per cent.

Case-mix adjusted data in an electronic spreadsheet format will be available from the HSCIC website in due course.

The Lung Cancer Nurse Specialist

A common theme in evaluation of patient and carer experience is the importance of input from the lung cancer specialist nurse. Ideally this input should occur at all stages of the lung cancer pathway, from referral through investigation, to treatment and survivorship, and including end-of-life care and bereavement. The audit is uniquely placed to record the input of specialist nurses and to support service improvement plans which attempt to match capacity to demand.

This year, there have been improvements in the key measure of proportion of patients receiving the input of a lung cancer nurse specialist (LCNS) with the overall figure rising from 64 per cent last year to 80 per cent this year. Likewise the proportion of patients who have the LCNS present at the time they are given their diagnosis has risen from 38 per cent to 55 per cent. Most organisations continue to fall short of the recommendation of 80 per cent on each of these two measures, and they are encouraged to use this comparative audit data, alongside workforce and activity data, as levers to drive service improvement.

Converting data into service improvement

The National Lung Cancer Audit in England is mandatory through the NHS Standard Contract and hospitals must make a statement of their participation in their Quality Accounts submissions.

However collecting data is only part of the audit process and it is important that the data is used to improve the services provided to patients and the outcomes of their treatment. There are numerous examples of local organisations doing just this, some working within the Improving Outcomes in Lung Cancer Project (ILCOP) others working independently within trusts and cancer networks. Furthermore, national organisations such as the National Institute for Health and Clinical Excellence, the British Thoracic Society and the National Cancer Peer Review Programme have all utilised data from the audit in their work programmes for lung cancer. Examples of some of the uses of the audit data are described in the list on page 13.

National Institute for Health and Clinical Excellence (NICE): Guideline development programme	To support the development and health economic assessment of the 2011 update of their 'Guideline on the Management of Lung Cancer'
National Institute for Health and Clinical Excellence (NICE): Quality Standards programme	To support the development of the Quality Standard for Lung Cancer and provide measures for a number of key elements
National Cancer Peer Review Programme (part of the National Cancer Action Team)	To provide data for the 'Clinical Lines of Enquiry' – outcome measures for the assessment of Lung Cancer Multi-Disciplinary Teams in England
Nottingham University – 'LUCADA Fellowship' Funded by the Royal College of Physicians	An academic MD fellowship based on the use and interpretation of data from the NLCA has resulted in three peer-reviewed publications to date
European Respiratory Society Thoracic Oncology Assembly : 'European Initiative for the Quality Management of Lung Cancer'	Underpinning the long term goal of a pan-European comparative audit of lung cancer performance and outcomes
LungPATH – a National Audit and Service Improvement programme in lung cancer pathology in collaboration with Guy's and St Thomas' Hospital and King's College London	A programme, based on the elements of the NLCA that examine the pathological diagnosis of lung cancer, this national audit (funded by an unrestricted educational grant from the pharmaceutical industry) is examining the variations in the quality of the process of the pathological diagnosis of lung cancer and explore factors that explain this variation in England
Society of Cardiothoracic Surgeons, the National Cancer Intelligence Network and Nottingham University	Examining the detail underpinning the variation in surgical resection rates and surgical outcomes for lung cancer patients across the UK
The Health Foundation	Improving Lung Cancer Outcomes - described separately
The Government's 'Transparency Policy'	The NLCA has been chosen as an example of a data source for the initial release of data as the pilot for the Government's Transparency Agenda in December 2011
The Roy Castle Lung Cancer Foundation	Data from the NLCA formed a major part of the report: 'Explaining Variations in Lung Cancer' published by the Roy Castle Lung Cancer Foundation in June 2011
The Department of Health and Cancer Research UK's International Cancer Benchmarking Partnership and the UK Cancer Registries: the collection of staging data on lung cancer	Data on the stage of cancers is essential for the interpretation of variations in cancer survival both within the UK and across national boundaries. The collection of staging data for lung cancer in the NLCA has improved the proportion of patients with stage recorded in the Cancer Registries having significant impact such initiatives as the International Cancer Benchmarking Partnership
Oxford University Department of Biomedical Engineering	Ph.D. project on clinical decision support and machine learning. The output of the work will be in the form of a clinical decision support platform, intended to act as a software tool to assist the clinicians in coming to informed, timely, safe and effective decisions in lung cancer care.
NHS Atlas of Variation version 2.0, 2011	Data on variation in surgical resection rate derived from the 2009 NLCA are being included in the second edition of the NHS Atlas of Variation. This is part of a wider programme of trying to drive up standards of care and reduce inappropriate variation in care and health outcomes across the UK.
Scottish Government Health Directorate: Detect Cancer Early programme	From 2012 routine quarterly staging data is being supplied by health boards from audit within the three Scottish cancer networks to measure the target to increase the number of Scottish people diagnosed with stage 1 cancer by 25 per cent for three cancer types including lung cancer.

Improving Outcomes in Lung Cancer Project (ILCOP)

ILCOP has been funded by the Health Foundation and is hosted by the Royal College of Physicians. The project used NLCA data and a new patient experience questionnaire with the aim of:

- a) Supporting teams to deliver local improvements in outcomes and patient experience
- b) Identifying reasons for variation
- c) Contributing to the knowledge base around how best to engage clinicians in quality improvement activities.

ILCOP achieved a high level of engagement from the multidisciplinary teams who felt that the process was supportive yet opened up the possibility of legitimate challenge to existing ways of working. Over 230 healthcare professionals took part in the project. The multidisciplinary service reviews were described by 99 per cent of the participants as "good" or "excellent" in their ability to identify areas for improvement. More than 70 quality improvement plans were submitted to the core project team.

Local data collection demonstrated improvements in a number of areas. One site was able to reduce the time that patients wait for chemotherapy from 12 days to 2 days by streamlining the diagnostic pathway. This had an impact in the total number of small cell lung cancer patients being able to access treatment (57 per cent in 2010, and 71 per cent in 2011). Another site showed improvements in their patient satisfaction survey with a 20 per cent increase in the number of patients who reported that information about diagnosis was given with sensitivity and care. Final project evaluation through indicators from the National Lung Cancer Audit is expected to be available towards the end of 2012.

Trust and Health Board performance

Handling of low case numbers

It should be noted that trusts or health boards submitting very low numbers of cases with high levels of data completeness have been omitted from all tables to ensure that no details about specific patients can be identified in this report. Because of this network totals may not equal the sum of the composite trusts or health boards. For example, in a trust with only two submitted cases of lung cancer, with 100 per cent data completeness and a resection rate of 100 per cent, it would be possible to know the details of treatment of all lung cancer patients seen at that trust. However in most cases, each reported value is composed of multiple variables so it is impossible to surmise information about specific individuals from this report.

Data groupings

The data has been divided into four groups for analysis:-

- All cases of lung cancer submitted to the audit (this includes lung cancer and mesothelioma). This is the default grouping on which all analyses have been carried out unless otherwise specified.
- NSCLC non-small cell lung cancer or, more correctly, this should be considered NOT small cell lung cancer. This group includes all lung cancers including those that are clinically diagnosed, but excludes pathological diagnoses of small cell lung cancer and clinical/pathological diagnoses of mesothelioma.

- Histologically confirmed non-small cell lung cancer all cases of non-small cell lung cancer that are confirmed by a histological or cytological specimen.
- Small cell lung cancer all cases of lung cancer that are confirmed to be of small cell type by a histological or cytological specimen.

Figure 6: Tertiary centres

Most activity relating to lung cancer initial diagnosis occurs in the secondary care organisations which range from small district general hospitals, to large teaching hospitals. Subsequent treatment often take place in the same hospital, or for some smaller hospitals, the patient may be transferred to another secondary care organisation. Activity in these organisations is well represented by the audit since the analysis of cases by "place first seen" allocates patients to the decision-making multidisciplinary team.

However, there are several tertiary centres which do not provide diagnostic services and which are therefore only rarely the "place first seen". These centres do provide a very important treatment service for patients both in their local area, but also on a regional/national basis, and for this reason we have chosen to record their activity separately, as shown in the table below. Due to the absence of a common denominator, it is not possible to compare outcomes in these organisations at the present time.

Figure 6 Tertiary ce	entres			
Centre Code	Centre Name	Surgery (n)	Chemotherapy (n)	Radiotherapy including Brachytherapy (n)
7A4BV	University Hospital Of Wales	93	n/a	n/a
RBV	The Christie NHS Foundation Trust	n/a	449	715
REN	The Clatterbridge Cancer Centre NHS Foundation Trust	n/a	519	569
RGM	Papworth Hospital NHS Foundation Trust	71	n/a	n/a
RM2	University Hospital of South Manchester NHS Foundation Trust	325	241	n/a
RPY	The Royal Marsden NHS Foundation Trust	n/a	172	170
RT3	Royal Brompton and Harefield NHS Foundation Trust	256	n/a	n/a

Case Study 3

West Suffolk Hospitals NHS Trust (RGR) reduction in waiting time for patients with Small Cell Lung Cancer

This trust determined that reduction in waiting times would mean that more patients were able to receive treatment before they deteriorated and became too ill for chemotherapy.

NLCA data demonstrated that prior to undertaking ILCOP the treatment rates for SCLC were between 50 per cent and 60 per cent and following the project they increased to over 70 per cent.

This was achieved by implementing an alert system to flag up patients with the very aggressive small cell lung cancer which allowed fast track booking of oncology appointments. There was an impressive reduction in waiting times from 12 to 2 days following the implementation of this plan.

They then followed this up by assessing whether this reduction in waiting times meant that more patients were able to receive treatment before they deteriorated and became too ill for chemotherapy.

Lung Cancer Audit 2012

At the time of publication of this report in December 2012, organisations will be collecting data on patients first seen in 2012, in preparation for submission to the audit at the end of June 2013. It is anticipated that these data will be analysed and published in December 2013.

Organisations should take note of the following:

- It is anticipated that data on co-morbidities will be included in future case-mix adjustment. Strategies to ensure high quality data submission should be adopted. Note that for the purposes of the NLCA, only co-morbidities that influence treatment decisions should be recorded (see data manual for further details).
- It is anticipated that data on lung function (FEV1 absolute and percentage of predicted) will be included in future case-mix adjustment. Strategies to ensure high quality data submission should be adopted.

Code	Expected	Actual	% of	MDT Com-	Performa-	Stage	PS &	Treatment	Data	Data	CT Scan	Bronchos-
	number	number	expected	pleteness (%)	nce Status Complete- ness (%)	Complete- ness (%)	Stage Complete- ness (%)	Recorded (%)	Complete- ness Seen by Nurse Specialist (%)	Complete- ness Nurse Specialist present at Diagnosis (%)	Field Complet- ed (%)	copy Field Completed (%)
N01 Total	989	1,128	114	98.2	87.2	91.4	81.7	92.6	84.5 🔺	82.3 🔺	92.2	42.8
RTX	184	267	145	98.1	81.3	91.4	76.4	89.5	69.3 🔺	68.9 🔺	87.3	41.6
RXL	242	287	119 •	99.0	97.9	93.0	92.0	99.7	92.0	84.0 🛕	94.4	49.5
RXN	136	269	198	99.3	78.8	85.9	70.3	91.4	91.1	90.7	90.3	31.6
RXR	427	305	71	96.7	89.8	94.8	86.9	89.5	84.9 🔺	84.9 🔺	96.1	47.5
N02 Total	2,184	2,432	111 •	93.4	86.4	92.1	83.3	88.2	79.8 🛕	68.5 🔺	91.7	74.8
RBT	120	126	105	86.5 🔺	23.8	88.1	20.6	88.1	49.2	49.2 🔺	96.0	96.0
RJN	108	115	107 •	98.3	98.3	98.3	97.4	96.5	98.3	96.5	99.1	97.4
RM2	236 🔷	288 🔷	122 🔷	89.9 🔷	87.8 🔷	85.1 🔷	76.7 🔷	84.0 🔷	44.4 🔷	44.4 🔷	91.0 🔷	34.0
RM3	220	228	104 🌑	99.6	99.6	98.7	98.7	93.9	98.7	93.9	99.1	98.7
RM4	92	97	105	96.9	95.9	96.9	94.8	93.8	97.9	89.7	97.9	88.7
RMC	220	227	103 🌑	95.2	93.4	96.5	92.5	90.7	92.1	77.5 🔺	95.2	90.3
RMP	150	150	100	90.7 🔺	60.0 🔺	80.0	54.7 🛕	92.7	65.3 🔺	56.7 🔺	88.0	69.3
RRF	200	243	122 🌑	92.6 🔺	84.8 🔺	93.8	84.0 🛕	88.5	80.7 🛕	80.7 🛕	86.0	58.0
RW3	120	134	112 •	94.8 🔺	92.5	91.8	88.1	76.1 🔺	90.3	77.6	91.0	85.1
RW6	573	603	105	94.0 🔺	93.4	94.0	91.9	88.9	84.1 🔺	55.1 🔺	92.9	84.7
RWJ	145	220	152	90.0 🔺	86.4	87.7	82.3 🛕	80.0	84.5 🛕	77.3 🛕	78.2	46.4
N03 Total	1,535	1,891	123	99.3	91.8	96.1	88.8	86.5	88.1	78.4	96.0	66.6
LLCU	428	405	95 🌑	100.0	99.0	97.0	96.0	92.8	100.0	92.8	100.0	100.0
RBL	119	325	273	99.7	96.0	98.5	94.5	77.8 🔺	99.4	87.4	99.7	99.4
RBN	221	238	108 🌑	100.0	98.3	94.1	92.9	97.5	84.9 🔺	77.3 🛕	97.9	23.9 🔺
REM	323	341	106	99.1	86.2	98.2	85.6	93.3	68.0 🛕	62.8 🛕	85.6	44.6
REN •	48 🔷	2 🔷	4 🔷	50.0 🔷	0.0 ◆	50.0 🔷	0.0 ♦	100.0 🔷	0.0 ◆	0.0	0.0	0.0
RJR	121	194	160 •	100.0	89.2	92.8	83.5 🛕	89.7	81.4 🔺	80.9 🔺	96.9	37.1
RVY	82	170	207 🌑	98.2	94.7	96.5	92.4	96.5	85.9	85.9	97.1	38.2
RWW	193	216	112	97.2	74.5 🔺	93.1	70.4	54.2 🔺	92.6	56.5 🛕	96.3	86.1
N06 Total	1,811	1,978	109 •	99.5	95.4	88.0	84.8 🔺	91.2	98.0	82.9 🛕	99.9	99.2
RAE	240	293	122	99.0	93.2	85.0	81.2	85.7	99.7	86.0	100.0	100.0
RCB	173	202	117 •	99.0	96.5	77.7 🔺	75.2 🔺	93.6	100.0	89.6	100.0	100.0
RCD	91	110	121 •	98.2	97.3	95.5	93.6	89.1	90.9	60.9 🔺	99.1	98.2
RCF	118	118	100	99.2	96.6	80.5 🔺	80.5	92.4	96.6	91.5	99.2	100.0
RR8	565	575	102 •	99.8	99.5	91.7	91.7	93.7	100.0	85.6	100.0	100.0
RWY	244	239	98 🔵	100.0	90.0	88.3	79.9 🔺	91.6	97.1	80.8	100.0	100.0
RXF	380	441	116	99.8	93.2	89.8	84.4 🔺	90.5	96.1	78.7 🛕	100.0	97.1
N07 Total	753	815	108	99.1	96.6	87.9	85.0	95.0	88.2	50.2	96.9	93.0
RCC	126	131	104 🌑	97.7	95.4	90.1	86.3 •	93.9	98.5	87.8	98.5	97.7
RJL	226	317	140	100.0	95.0	94.0	89.6	95.6	95.3	85.5	96.5	87.4
RWA	401	367	92 •	98.9	98.4	81.7 🔺	80.7 🔺	94.8	78.5 🛕	6.3 🛕	96.7	96.2
N08 Total	1,246	1,362	109 •	99.9	99.3	92.7	92.1	89.8	85.6	78.9 🔺	99.6	98.8
RFF	131	183	140	100.0	98.4	87.4	85.8	97.8	97.3	89.6	100.0	99.5
RFR	144	198	138 🌑	100.0	100.0	98.0	98.0	59.1 🔺	99.5	94.4	100.0	100.0
RFS	174	184	106	98.9	98.9	92.9	91.8	94.0	98.4	82.6	100.0	96.2
RHQ	480	445	93 •	100.0	100.0	94.4	94.4	92.4	58.7 🛕	58.7 🔺	98.7	98.4
RP5	317	352	111	100.0	98.6	90.1	89.2	97.4	99.1	88.1	100.0	99.7

Code	Expected number	Actual number	% of expected	MDT Com- pleteness	Performa- nce Status	Stage Complete-	PS & Stage	Treatment Recorded	Data Complete-	Data Complete-	CT Scan Field	Bronchos- copy Field
				(%)	Complete- ness (%)	ness (%)	Complete- ness (%)	(%)	ness Seen by Nurse Specialist (%)	ness Nurse Specialist present at Diagnosis (%)	Complet- ed (%)	Completed (%)
N11 Total	1,066	1,113	104	94.1 🔺	95.2	92.2	90.4	92.7	91.9	85.1	94.2	49.2
RBK	158	162	103	98.1	97.5	95.7	95.7	95.1	98.8	90.7	97.5	74.1
RR1	404	414	103 •	87.4 🔺	91.3	83.8	80.9 🔺	91.3	90.6	84.5 🛕	87.2	57.0
RRK	245	267	109 •	97.4	96.6	99.3	96.3	95.9	91.4	90.3	98.5	26.2
RXK	259	270	104	98.5	98.5	95.9	95.9	90.4	90.4	77.4	98.5	45.2
N12 Total	414	506	122	98.6	91.1	86.2	78.9	90.9	79.1	69.8	99.8	93.3
RJC	5	93	1860	94.6	80.6	93.5	76.3	80.6	93.5	88.2	100.0	96.8
RKB	249	204	82 •	100.0	99.5	78.9	78.4	97.1	97.1	83.8	100.0	93.1
RLT	96	114	119 •	100.0	97.4	95.6	93.0	88.6	94.7	81.6	100.0	100.0
RWP00	64	95	148 🌑	97.9	75.8 🔺	83.2 🔺	65.3 🔺	90.5	7.4 🔺	7.4 🔺	98.9	82.1
NO. T.					60 = 1	615.	60.5 1		65 - 1	6.5	02.2.5	F0.5
N20 Total	532	575	108	98.8	80.5	81.6	68.3	93.4	83.5	81.0	92.3 • 99.5 •	58.6
RC9 RWG	109 217	186 187	171 • 86 •	96.8	78.0 △ 74.9 △	71.5 A 82.4 A	57.0 △ 64.2 △	91.4 • 95.7 •	72.0 △ 93.0 ●	67.7 △ 90.9	99.5 • 87.2 •	66.1 △
RWH	206	202	98	99.5	88.1	90.1	82.7	93.1	85.1	84.2	90.6	64.9
	200	202	30 0	33.3	00.1	30	0217	33.1	03.1	0 II.L	30.0	0.1.5
N21 Total	862	690	80 •	98.1	94.2	92.2	88.4	91.7	93.6	72.5 🔺	98.6	90.4
RAS	100	107	107	96.3	86.9	86.0	77.6 🔺	95.3	90.7	90.7	93.5	69.2
RC3	75	90	120 •	96.7	94.4	93.3	90.0	92.2	95.6	83.3 🛕	96.7	92.2
RFW	70	94	134	95.7	95.7	94.7	92.6	89.4	97.9	0.0	100.0	97.9
RQM	80	58	73	100.0	96.6	93.1	91.4	96.6	100.0	89.7	100.0	100.0
RT3	148 🔷	19 🔷	13 🔷	89.5 🔷	68.4 🔷	47.4	36.8 🔷	100.0	94.7 🔷	42.1 🔷	100.0	21.1
RV8	100	88	88	100.0	98.9	93.2	92.0	94.3	90.9	80.7	100.0	100.0
RYJ	289	234	81 •	100.0	96.6	96.6	93.2	88.0	91.9	84.2 🛕	100.0	96.2
N22 Total	732	812	111	98.2	94.5	93.5	88.9	94.0	97.5	88.2	98.9	98.2
RAL	86	91	106 🌑	100.0	100.0	100.0	100.0	100.0	100.0	96.7	100.0	100.0
RAP	84	95	113 •	100.0	97.9	89.5	89.5	85.3	97.9	88.4	100.0	98.9
RKE	98	112	114	100.0	94.6	92.9	88.4	93.8	97.3	83.0 🛕	100.0	98.2
RQW	113	157	139	96.2	93.6	86.0	79.6	87.9	100.0	85.4	100.0	100.0
RRV	139	113	81	99.1	82.3	98.2	81.4	97.3	90.3	74.3 🛕	95.6	93.8
RVL	212	244	115	96.7	97.1	95.5	94.3	97.5	98.4	95.5	98.4	98.0
N23 Total	780	635	81 •	99.1	59.7	89.0	58.3 🔺	86.8	82.5 🔺	79.5	86.9	69.0
RF4	340	206	61	99.0	1.9 🛕	77.7 🔺	1.9 🛕	80.6	58.7 🛕	57.3 🛕	78.2 🔺	38.3
RGC	115	119	104 •	99.2	91.6	94.1	89.1	78.2 🔺	97.5	86.6	94.1	92.4
RNH	115	100	87 •	99.0	62.0 🔺	92.0	62.0 🔺	87.0	81.0 🔺	81.0 🔺	71.0 🔺	43.0
RNJ	110	115	105	98.3	95.7	95.7	93.0	96.5	97.4	94.8	98.3	96.5
RQX	100	95	95 •	100.0	98.9	95.8	95.8	98.9	98.9	98.9	100.0	100.0
N24 Total	873	702	80 •	98.4	87.3	84.6	76.9 🔺	89.0	80.8	65.8 🔺	94.3	77.9
RJ1	273	121	44 🔺	99.2	63.6	74.4	49.6	100.0	89.3	68.6	100.0	97.5
RJ2	116	108	93 •	99.1	87.0	89.8	82.4	81.5 🔺	85.2	65.7 🔺	99.1	87.0
RJZ	114	109	96 •	99.1	99.1	89.9	89.9	68.8	99.1	86.2	99.1	99.1
RYQ	370	364	98 •	97.8	91.8	84.9 🔺	80.5 🔺	93.7	71.2 🔺	58.8 🛕	89.6	62.4
NOT T-4	705	CEE	62.6	00.0	76.2	70.0	CC C .	02.0	047	66.1	00.2	CC 2
N25 Total RAX	785 159	655 117	83 • 74 •	96.0 • 97.4 •	76.3	78.0 🛕	66.6 A	82.9	84.7 ▲ 96.6 ●	66.1	98.3	69.0
RJ6	132	144	109	96.5	81.2 △ 91.0 ●	87.2 • 95.1 •	75.2 A 86.8 •	93.2 • 93.1 •	98.6	88.9 • 89.6 •	100.0 • 98.6 •	93.2 • 62.5 △
RJ7	239	173	72	94.8	86.7	82.1	76.3	79.8	71.1	52.6	96.5	87.9
RPY •	0 🔷	17 🔷	0 •	76.5	76.5	64.7	47.1	94.1	88.2	17.6	94.1	29.4
RVR	245	199	81	98.0	55.3	58.8 🛕	41.7	70.9	79.9	52.3	99.5	47.2

Table 1a (cor												
Data comple	Expected number	Actual number	land and Wa	MDT Com- pleteness (%)	Performa- nce Status Complete- ness (%)	Stage Complete- ness (%)	PS & Stage Complete- ness (%)	Treatment Recorded (%)	Data Complete- ness Seen by Nurse Specialist	Data Complete- ness Nurse Specialist present at	CT Scan Field Complet- ed (%)	Bronchos- copy Field Completed (%)
									(%)	Diagnosis (%)		
N26 Total	920	1,156	126 •	99.9	92.8	89.3	83.9 🔺	92.6	92.9	84.0 🔺	97.6	91.5
RA9	156	201	129 🌑	99.5	99.0	97.5	97.0	95.5	99.5	85.1	99.5	99.5
RBZ	85	119	140	100.0	91.6	81.5 🛕	74.8 🛕	95.8	99.2	94.1	92.4	26.1
REF	223	265	119	100.0	98.5	90.9	90.6	93.6	97.0	95.1	99.2	97.7
RH8	200	235	118	100.0	93.6	93.2	87.7	95.7	94.0	84.3	98.3	99.6
RK9	256	336	131	100.0	84.5	83.0 🛕	71.4 🔺	86.9	82.7 🛕	70.8	96.4	99.4
N27 Total	402	419	104	97.4	93.8	84.7 🔺	80.4 🔺	94.7	95.0	76.4 🔺	97.1	94.0
RBD	82	108	132 •	98.1	87.0	94.4	83.3 🛕	90.7	92.6	88.9	98.1	95.4
RD3	150	155	103 •	100.0	100.0	88.4	88.4	99.4	100.0	80.6	100.0	100.0
RDZ	170	156	92 •	94.2 🛕	92.3	74.4 🛕	70.5	92.9	91.7	63.5 🛕	93.6	87.2
N28 Total	843	887	105	94.9 🔺	68.8	74.0 🔺	57.2	91.2	71.3 🛕	71.3 🛕	87.8	30.0
RA3	82	92	112	90.2 🛕	62.0 🔺	65.2 🛕	48.9 🔺	90.2	57.6	57.6	67.4	23.9
RA4	62	89	144 •	96.6	57.3 🛕	71.9 🔺	43.8 🔺	87.6	80.9 🔺	80.9 🔺	94.4	32.6
RA7	180	130	72	97.7	96.2	92.3	91.5	94.6	76.2 🔺	76.2 🔺	87.7	25.4
RBA	121	128	106	78.9 🛕	10.2	55.5 🛕	9.4 🛕	85.9	59.4 🛕	59.4 🔺	66.4	31.3
RD1	170	184	108	100.0	93.5	81.0 🛕	77.2	96.7	88.0	88.0	95.1	45.1
RVJ	228	264	116	98.9	72.7 🛕	72.7 🛕	56.8 🛕	89.8	64.4	64.4	98.1	22.3
N29 Total	437	563	129 •	98.9	94.3	90.6	87.6	90.1	92.4	71.8 🔺	95.9	93.1
RLQ	74	109	147	100.0	88.1	85.3	77.1 🔺	89.0	100.0	30.3 🛕	99.1	100.0
RTE	244	323	132 •	99.1	95.0	92.6	90.4	91.0	89.2	76.8 🔺	96.3	88.5
RWP50	119	131	110	97.7	97.7	90.1	89.3	88.5	93.9	93.9	92.4	98.5
N30 Total	1,031	1,164	113	99.5	85.6	82.0 🛕	72.8 🛕	89.1	96.0	86.0	97.3	83.2
RD7	112	174	155 🌑	100.0	77.6 🔺	76.4 🔺	63.2 🔺	77.6 🔺	100.0	81.6 🔺	100.0	100.0
RD8	96	133	139 •	100.0	64.7 🔺	40.6	28.6 🔺	84.2 🔺	79.7 🔺	78.9 🔺	93.2	41.4
RHW	206	172	84 •	99.4	95.9	89.0	84.9 🛕	93.6	100.0	91.3	100.0	99.4
RN3	113	183	162	100.0	96.2	91.8	88.0	92.3	100.0	86.3	100.0	98.9
RTH	303	307	101	99.0	80.5	89.3	73.3	92.8	94.8	88.3	96.1	75.2
RXQ	201	195	97 •	99.0	95.9	88.7 •	85.6	89.7 •	98.5	86.2	94.9	80.0
N31 Total	1,092	1,167	107 •	97.3	92.3	89.0	84.0 🔺	90.0	76.9 🔺	68.6	90.4	70.7
RHM	448	234	52	97.9	94.4	98.7	93.6	89.7	52.1 🔺	35.5 🛕	99.6	97.9
RHU	279	383	137	97.4	90.1	77.0 🔺	71.0 🔺	89.0	72.3 🛕	70.8 🛕	78.6	35.8
RN1	94	104	111	88.5	83.7	90.4	81.7	93.3	77.9 🛕	58.7 ▲	80.8	80.8
RN5	39	100	256	98.0	91.0	97.0	89.0	92.0	99.0	78.0	100.0	100.0
RNZ RR2	71 53	95 104	134 • 196 •	98.9 9 8.1 9	97.9 • 95.2 •	90.5 • 97.1 •	90.5 • 94.2 •	96.8 • 91.3 •	97.9 9 8.1 9	88.4 • 96.2 •	97.9 • 98.1 •	97.9 • 99.0 •
RYR16	108	147	136	100.0	95.9	91.8	89.1	83.7	84.4	83.7	96.6	53.7
N32 Total	540	662	123	99.7	73.1 🛕	82.5 🛕	66.9 🔺	87.5	82.9 🛕	79.2 🛕	99.4	93.8
RA2	109	100	92	100.0	4.0	39.0 🛕	4.0	88.0	57.0	57.0	100.0	100.0
RDU	116	201	173	100.0	94.5	89.1	85.1	97.5	94.0	85.6	100.0	94.0
RTK RTP	159 156	172	108	99.4 9 9.5 •	74.4	95.9	73.3 A	83.7 A 79.9 A	85.5	81.4	99.4	84.3 A 98.9
MIF	130	189	121	23.3	85.7	86.2	75.1 🛕	75.5	82.5	82.0 🛕	98.4	98.9
N33 Total	620	660	107 •	99.2	90.6	93.5	85.9	92.7	87.3	87.3	95.9	52.4
RXC	229	266	116 •	98.9	97.7	98.1	97.0	92.5	86.8	86.8	98.9	80.8
RXH	251	246	98	100.0	83.3	92.3	77.6	91.5	85.4	85.4	93.5	30.5
RYR18	140	146	104	98.6	89.7	87.0	79.5	95.2	91.1	91.1	94.5	37.7

Code	Expected number	Actual number	% of expected	MDT Completeness (%)	Performa- nce Status Complete- ness (%)	Stage Complete- ness (%)	PS & Stage Complete- ness (%)	Treatment Recorded (%)	Data Complete- ness Seen by Nurse Specialist (%)	Data Complete- ness Nurse Specialist present at Diagnosis (%)	CT Scan Field Complet- ed (%)	Bronchos- copy Field Completed (%)
N34 Total	903	975	108	98.5	86.1	79.9 🔺	75.8 🔺	84.3 🔺	47.7 🔺	42.4 🔺	97.4	96.8
RN7	121	130	107	100.0	96.2	78.5 🔺	76.9 🔺	96.2	98.5	77.7 🔺	100.0	100.0
RPA	205	148	72	99.3	91.2	64.2 🔺	62.2 🛕	65.5 🔺	88.5	88.5	100.0	100.0
RVV	374	470	126 •	99.8	97.4	98.9	97.4	94.7	0.2 🛕	0.0	99.8	99.8
RWF	203	227	112 •	94.3 🔺	53.3	51.5 🛕	39.2	68.3 🔺	90.3	79.7 🔺	89.4	86.8
N35 Total	1,105	1,092	99 •	95.6	81.2	78.9 🔺	72.2 🛕	91.3	82.9 🛕	81.5 🔺	91.4	63.2
RJD	160	154	96 •	100.0	99.4	89.6	89.0	93.5	87.7	87.7	100.0	48.7
RJE	310	316	102	98.1	72.5 🔺	67.1 🔺	51.9 🔺	91.5	73.1 🔺	72.8 🔺	93.4	51.3
RL4	205	222	108	99.5	99.1	97.7	97.3	95.9	99.5	93.2	99.5	99.5
RNA	180	141	78 •	73.0 🔺	23.4 🔺	35.5 🔺	19.1 🔺	88.7	53.2	53.2 🛕	60.3	22.7
RWP31	42	45	107 🌑	97.8	97.8	93.3	93.3	86.7	91.1	91.1	80.0	97.8
RXW	208	214	103	99.1	97.2	94.9	94.4	87.4	94.4	94.4	96.7	72.9
N36 Total	2,134	2,687	126	99.5	96.2	95.1	92.1	94.9	94.5	87.8	98.0	87.8
RE9	134	180	134	100.0	97.2	82.8	80.6	98.3	90.0	90.0	100.0	100.0
RLN	226	279	124	98.9	100.0	85.3	85.3	93.2	87.1	86.7	96.1	65.9
RNL	170	242	142	98.3	83.1	93.8	79.3	83.1 🛕	85.1	80.6	93.0	79.3
RR7	132	225	171	100.0	88.4	95.6	85.3	95.6	99.6	88.9	97.3	95.6
RTD	166	302	182	100.0	99.3	100.0	99.3	96.0	100.0	86.4	100.0	100.0
RTF	364	371	102	98.4	95.4	92.5	91.1	91.4	96.2	83.3 🛕	97.3	96.5
RTR	270	377	140	100.0	98.7	100.0	98.7	100.0	99.5	95.0	100.0	100.0
RVW	300	324	108	100.0	98.8	100.0	98.8	100.0	99.7	90.4	100.0	100.0
RXP	372	387	104 •	100.0	99.2	98.2	97.4	94.8	89.7	87.9	97.7	58.4
N37 Total	1,368	1,519	111	91.4	81.2	79.6	68.4	91.2	81.6	76.6	82.1 🛕	50.0
RC1	57	65	114	100.0	96.9	75.4	73.8 🛕	96.9	66.2 🛕	66.2 🔺	98.5	40.0
RCX1	112	140	125 🌑	44.3 🛕	77.9 🔺	87.9	70.7 🛕	89.3	90.0	90.0	92.9	50.7
RGN	108	173	160 •	98.8	91.3	85.5	79.2	98.8	91.9	90.8	98.8	57.2
RGP	131	201	153 •	96.0	87.1	78.1 🔺	72.6 🔺	89.6	94.5	81.6 🔺	95.5	91.5
RGQ	171	212	124 🌑	99.1	94.8	86.8	83.5 🛕	96.7	99.1	86.8	99.1	99.1
RGR	52	108	208	100.0	94.4	95.4	91.7	91.7	92.6	91.7	92.6	25.9
RGT	103	203	197 •	100.0	91.6	81.3 🔺	75.9 🔺	79.3 🛕	67.5 🔺	58.6	6.4	2.5
RM1	338	350	104	91.1 🔺	57.7 🔺	66.6	41.7	95.7	67.4	67.4 🔺	86.6	35.1
RQQ	35	67	191	85.1 🛕	55.2 🔺	70.1 🛕	49.3 🛕	70.1 🔺	56.7	52.2 🛕	95.5	19.4
N38 Total	678	859	127 •	99.5	99.0	96.2	95.6	94.8	98.8	87.9	90.2	83.5
RAJ	192	220	115	99.5	97.7	99.1	97.7	97.7	97.7	92.7	100.0	100.0
RDD	176	201	114	100.0	100.0	100.0	100.0	98.5	100.0	81.1 🔺	100.0	99.5
RDE	176	248	141	100.0	100.0	100.0	100.0	100.0	100.0	82.7 🔺	100.0	100.0
RQ8	134	190	142	98.4	97.9	83.7 🔺	82.6	80.5 🔺	97.4	96.3	55.8 🔺	25.8
IZO Total	1 022	2,291	110	99.7	83.1	83.9 🛕	72.0 🛦	96.2	83.9	57.3 🛕	85.3	70.2
N39 Total	1,923 62	132	119 • 213 •	100.0	99.2	100.0	73.0 ▲ 99.2 ●	86.2 • 94.7 •	99.2	83.3	99.2	79.2 99.2
RK5	170	221	130	98.6	95.5	97.3	93.2	91.4	99.5	98.2	100.0	94.6
RNQ	146	206	141	100.0	97.1	92.7	90.8	56.3	98.5	95.1	98.5	88.8
RNS	142	188	132	99.5	93.6	85.1	80.9	96.8	97.3	89.9	99.5	98.9
RTG	257	304	118	99.7	78.6	70.1	57.9	92.1	96.1	81.3	48.7	18.1
RWD	349	356	102	99.4	65.2	73.3	54.8	79.8	35.1	32.3	53.4	53.1
RWE	465	479	103	100.0	78.9	84.3	68.3	85.6	77.7	53.9	98.7	96.2
RX1	332	403	121	99.8	83.6	85.4	74.2	92.6	98.0	0.0	99.0	99.0

Code	Expected number	Actual number	% of expected	MDT Completeness (%)	Performa- nce Status Complete- ness (%)	Stage Complete- ness (%)	PS & Stage Complete- ness (%)	Treatment Recorded (%)	Data Complete- ness Seen by Nurse Specialist (%)	Data Complete- ness Nurse Specialist present at Diagnosis (%)	CT Scan Field Complet- ed (%)	Bronchos- copy Field Completed (%)
England Total	28,558	31,395	110	97.8	88.5	88.1	80.9 🔺	90.4	86.2	75.5 🛕	94.0	76.9
NWW Total	476	494	104	99.6	96.0	96.0	92.1	89.9	92.3	0.2	93.3	41.7
7A1A1	182	188	103	98.9	96.8	96.8	93.6	85.1	94.7	0.5	91.0	40.4
7A1A4	152	195	128	100.0	96.4	97.4	94.4	92.8	88.7	0.0	99.0	44.1
7A1AU	142	111	78	100.0	93.7	91.9	85.6	92.8	94.6	0.0	87.4	39.6
SWCN Total	1,523	1,574	103	99.9	97.9	97.6	95.6	91.9	80.4	0.1	94.5	38.6
7A2AG	60	46	77	100.0	95.7	97.8	95.7	87.0	67.4	0.0	91.3	32.6
7A2AJ	32	37	116	100.0	97.3	100.0	97.3	78.4	0.0	0.0	89.2	51.4
7A2AL	79	125	158	100.0	99.2	100.0	99.2	97.6	83.2	0.0	93.6	44.8
7A2BL	65	91	140	100.0	97.8	92.3	90.1	80.2	20.9	0.0	89.0	36.3
7A3B7	97	104	107	100.0	99.0	97.1	96.2	92.3	95.2	0.0	95.2	55.8
7A3C4	123	95	77	100.0	98.9	100.0	98.9	91.6	87.4	1.1	97.9	32.6
7A3C7	117	102	87	100.0	100.0	98.0	98.0	92.2	86.3	0.0	94.1	25.5
7A3CJ	80	86	108	100.0	100.0	98.8	98.8	79.1	73.3	0.0	94.2	44.2
7A4BV	125	3	2	100.0	100.0	100.0	100.0	100.0	66.7	0.0	66.7	0.0
7A4C1	185	255	138	100.0	96.5	95.3	91.8	98.4	95.7	0.0	95.3	45.5
7A5B1	131	133	102	100.0	97.7	99.2	97.0	92.5	83.5	0.0	92.5	25.6
7A5B3	123	111	90	100.0	94.6	98.2	92.8	96.4	91.0	0.0	97.3	36.0
7A6AM	110	114	104	100.0	98.2	99.1	97.4	88.6	88.6	0.0	98.2	42.1
7A6AR	196	272	139	99.6	98.2	97.1	95.2	93.0	80.9	0.4	94.5	34.6
Wales Total	1,999	2,068	104	99.9	97.4	97.2	94.7	91.4	83.3	0.1	94.2	39.4
LUCADA Total	30,557	33,463	110	97.9	89.1 •	88.7 •	81.8 🛦	90.4	86.0	70.8	94.0	74.5
Range Networl	le .											
Min			80.1	91.4	59.7	74.0	57.2	82.9	47.7	42.4	82.1	30.0
LQ			104.3	97.6	83.7	82.9	72.9	89.0	81.8	69.5	91.8	59.8
Median			108.7	98.9	91.5	89.0	83.6	91.2	85.2	78.7	95.9	78.6
UQ			117.9	99.5	95.0	92.6	88.7	92.7	92.8	83.2	97.9	93.1
Max			128.8	99.9	99.3	97.6	95.6	95.0	98.8	88.2	99.9	99.2
Range Trust												
			44.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						05.0	75.2	88.1	82.6	70.8	02.5	44.7
Min			101.7	98.0	85.3	85.0	13.2			70.0	93.5	44.7
Min LQ Median			101.7 110.4	98.0 99.3	94.7	92.3	86.3	92.3	91.9	84.0	98.1	87.9
Min LQ												

Indicator	Definition	A		•
Expected number	Completeness of data based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010			
Actual number	Number of cases with date first seen in year specified			
% of expected	Completeness of data based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010	<50%	50- 75%	≥75%
MDT Completeness (%)	Complete when MDT Discussion Indicator is Y or N (denominator = all cases)	<95%		
Performance Status Completeness (%)	Complete when Performance status is present (excluding Not Recorded (5)) (denominator = all cases)	<85%		
Stage Completeness (%)	Complete when stage can be derived from the following fields: 1) Final pre-treatment TNM category 2) Pathological TNM category 3) Site Specific Stage Classification (excluding Unknown (X)) 4) Post Treatment Site Specific Stage Classification (excluding Unknown (X)) (denominator = all cases)	<85%		≥85%
PS & Stage Completeness (%)	Complete when Performance Status and Stage are both complete (as defined above) (denominator = all cases)	<85%		≥85%
Treatment Recorded (%)	Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery, Teletherapy, Palliative or Active Monitoring (denominator = all cases)	<85%		≥85%
Data Completeness Seen by Nurse Specialist (%)	Complete when Patient Assessed by a Lung Cancer Nurse Specialist is Y or N (denominator = all cases)	<85%		≥85%
Data Completeness Nurse Specialist present at Diagnosis (%)	Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis is Y or N (denominator = all cases)	<85%		≥85%
CT Scan Field Completed (%)	Complete when CT Scan is Y or N (denominator = all cases)	<85%		≥85%
Bronchoscopy Field Completed (%)	Complete when Bronchoscopy is Y or N (denominator = all cases) (except Wales)	<85%		≥85%

[◆] Tertiary Trust standards do not apply

Health Board	Actual	Expected	% of	MDT	Performance	Stage	Treatment	Data	CT scan field	Bronchoscopy
ricardi Bodia	number (all)	number	expected	complete- ness (%)	status complete- ness (%)	complete- ness (%)	recorded (%)	complete- ness seen by nurse specialist (%)	completed (%)	field com- pleted (%)
SCAN	1,233	1,320	93	99.9	94.7	96.6	99.9	99.4	99.7	100.0
Borders	89	96	93	100.0	100.0	100.0	100.0	97.8	100.0	100.0
D and G	104	146	71	100.0	85.6	73.1	100.0	100.0	100.0	100.0
Fife	321	325	99	99.7	86.9	96.9	100.0	99.7	100.0	100.0
Lothian	719	753	95	100.0	98.9	99.4	99.9	99.4	99.4	100.0
WoSCAN	2,465	2,679	92	100.0	92.3	90.2	100.0	92.5	99.9	99.7
Ayrshire and Arran	338	342	99	100.0	92.0	97.6	100.0	100.0	99.7	99.7
Clyde	373	393	95	100.0	96.8	96.5	100.0	95.4	100.0	100.0
Forth Valley	193	252	77	100.0	100.0	97.4	100.0	100.0	100.0	100.0
Lanarkshire	517	535	97	99.8	90.1	79.3	100.0	82.0	99.8	98.8
North Glasgow	690	710	97	100.0	87.2	86.5	100.0	90.1	100.0	100.0
South Glasgow	354	447	79	100.0	96.9	95.5	100.0	98.3	100.0	100.0
Journ Glasgow	334	447	73	100.0	30.3	33.3	100.0	30.3	100.0	100.0
NoSCAN	957	1079	89	100.0	93.6	93.8	100.0	99.4	100.0	100.0
Grampian	361	410	88	100.0	86.2	87.3	100.0	100.0	100.0	100.0
Orkney	0	4	0							
Shetland	17	5	340							
Highland	191	213	90	100.0	96.8	99.5	100.0	97.2	100.0	100.0
Argyll and Clyde (H)	12	34	35							
Western Isles	13	12	108							
Tayside	363	401	91	100.0	99.4	97.2	100.0	100.0	100.0	100.0
Total	4,655	5,078	91.7	100.0	93.2	92.6	100.0	95.8	99.9	99.8
lotai	4,033	3,070	31.7	100.0	33.2	32.0	100.0	33.0	33.3	33.0
Range Health Board										
Min			0	99.7	85.6	73.1	99.9	82.0	99.4	98.8
LQ			79	100.0	87.2	87.3	100.0	97.2	100.0	100.0
Median			93	100.0	96.8	96.9	100.0	99.4	100.0	100.0
UQ			97	100.0	98.9	97.6	100.0	100.0	100.0	100.0
Max			340	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 1c Data completene	Data completeness for key fields Guernsey (2011 all)												
Code	Expected number	Actual number	% of expected	MDT Complete- ness (%)	Perfor- mance Status Complete- ness (%)	Stage Complete- ness (%)	Complete-	Treatment Recorded (%)	Data Completeness Seen by Nurse Specialist (%)	Complete-	CT Scan Field Com- pleted (%)	Bronchos- copy Field Completed (%)	
2011 Total	36	41	114	100.0	100.0	97.6	97.6	85.4	n/a	100.0	100.0	68.3	

Counts aggregated by place first seen

Indicator	Definition
Expected number	Completeness of data based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010*
Actual number	Number of cases with date first seen in year specified
% of expected	Completeness of data based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010*
MDT Completeness (%)	Complete when MDT Discussion Indicator is Y or N (denominator = all cases)
Performance Status Completeness (%)	Complete when Performance status is present (excluding Not Recorded (5)) (denominator = all cases)
Stage Completeness (%)	Complete when stage can be derived from the following fields: 1) Final pre-treatment TNM category 2) Pathological TNM category 3) Site Specific Stage Classification (excluding Unknown (X)) 4) Post Treatment Site Specific Stage Classification (excluding Unknown (X)) (denominator = all cases)
PS & Stage Completeness (%)	Complete when Performance Status and Stage are both complete (as defined above) (denominator = all cases)
Treatment Recorded (%)	Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery, Teletherapy, Palliative or Active Monitoring (denominator = all cases)
Data Completeness Seen by Nurse Specialist (%)	Complete when Patient Assessed by a Lung Cancer Nurse Specialist is Y or N (denominator = all cases)
Data Completeness Nurse Specialist present at Diagnosis (%)	Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis is Y or N (denominator = all cases)
CT Scan Field Completed (%)	Complete when CT Scan is Y or N (denominator = all cases)
Bronchoscopy Field Completed (%)	Complete when Bronchoscopy is Y or N (denominator = all cases) (except Wales)

Code	Actual number	% o expected		Histological diagnosis (%)	Patient seen by nurse specialist (%)	Nurse specialist present at diagnosis (%)	% Having active treatment	% of patients receiving CT before bronchoscopy	receiving surgery all cases	% receiving radiotherapy
						, ,				
N01 Total	1,128	114	91.9 🔺	83.9	84.4	67.3 🛕	58.1 🔺	93.3	10.3	31.6
RTX	267	145	92.9 🔺	75.3	69.3 🔺	68.9 🔺	54.7 🔺	91.9	6.0	28.8
RXL	287	119	84.7 🛕	77.7	91.6	75.3 🛕	66.6	97.3	12.9	33.8
RXN	269	198		91.8	91.1	39.8	54.3 🛕	89.4	12.3	32.7
RXR	305	71	94.8 🛕	90.2	84.9	82.6	56.4	93.7	9.8	30.8
N02 Total	2,432	111	92.1	73.1	69.5	47.7	58.9 ▲	89.2	13.4	29.5
RBT	126	105	86.5	78.6	49.2	6.3	68.3	84.5	22.2	32.5
RJN	115	107	_	72.2	98.3	88.7	60.9	98.4	13.0	35.7
RM2	288	122		70.1	44.4	14.2	53.5	90.9	18.8	20.5
RM3	228	104	99.6	75.4	93.9	78.9	57.9	97.2	16.7	30.3
RM4	97	105		68.0	90.7	80.4	54.6	85.3	12.4	16.5
RMC	227	103	88.5	67.0	78.9	62.6	59.0	90.2	11.9	32.6
RMP	150	100		74.7	60.0	46.7	64.0	83.7	11.3	38.0
RRF	243	122	92.6	80.2	80.7	35.4	60.9	88.6	10.7	37.0
RW3	134	112	94.8 🛕	75.4	86.6	67.2	55.2 🛕	92.9	14.9	34.3
RW6	603	105	93.5 🛕	68.7 🛕	55.2 🛕	42.1 🔺	56.7 🔺	87.7	10.8	26.2
RWJ	220	152	89.1 🔺	82.3	77.3 🛕	48.6	64.5	88.2	10.9	30.5
N03 Total	1,891	123	93.4 🔺	66.6	81.8	47.5	55.7	90.5	16.9	29.9
LLCU ²	405	95		78.0	93.1	76.3 🛕	67.2	94.2	17.5	38.8
RBL	325	273		70.2	87.4	63.1 🛕	55.4	85.1	20.3	30.8
RBN	238	108	98.3	59.2	84.9	19.7	50.0	78.6	14.7	23.5
REM	341	106	98.2	70.1	63.0 🛕	0.3	53.7	87.3	15.2	27.9
REN •	2 🔷	4	•	100.0	0.0	0.0	50.0 ♦	0.0	50.0 ♦	0.0
RJR	194	160		57.2	80.9	53.1	54.6	94.3	13.9	35.1
RVY RWW	170 216	207 112		61.2 △ 55.1 △	85.9 • 76.4 •	71.8 △ 51.4 △	54.1 △ 46.8 △	98.4 • 95.8 •	16.5 18.5	27.6 19.4
N V V V V	210	112	92.0	55.1	76.4	51.4	40.0	95.0	10.5	19.4
N06 Total	1,978	109	98.6	70.9 🛕	84.0	63.5 🛕	59.5 🔺	93.5	15.2	24.2
RAE	293	122	98.0	59.7	86.0	62.8 🛕	56.3 🛕	95.2	16.4	22.9
RCB	202	117	96.0	71.8 🔺	90.6	89.6	54.5 🛕	95.9	16.3	29.2
RCD	110	121	97.3	79.1	69.1 🔺	44.5 🔺	56.4	98.0	11.8	12.7
RCF	118	100	99.2	73.7 🛕	93.2	77.1 🔺	61.9	96.2	16.9	31.4
RR8	575	102	98.8	73.4 🔺	85.6	56.3 🔺	66.6	93.2	16.3	29.4
RWY	239	98	100.0	69.0 🔺	80.8	51.0 🔺	64.0	84.9 🛕	7.9	29.3
RXF	441	116	99.5	72.8 🛕	80.7	69.4	52.2	94.1	16.8	14.1
NOT T . I	045	400	27.0	74.7	72.0 4	44.4	50.5	04.0	40.0	24.2
N07 Total	815	108		71.7	72.0 🛕	44.4	60.6	84.9	19.9	21.2
RCC	131	104		63.4	93.1	84.0	49.6	96.6	13.0	15.3
RJL RWA	317 367	140 92		69.4 △ 76.6 •	85.8 • 52.6 △	73.5 A 5.2 A	58.7 △ 66.2 ●	81.0 A	18.9 23.2	23.3 21.5
	501	32	30.1	, 0.0	52.0	J.L _	55.2	33.0		21.5
N08 Total	1,362	109	99.8	73.9 🔺	80.0	62.8 🛕	53.8	88.2 🔺	12.6	20.0
RFF	183	140	99.5	75.4	90.7	82.5	57.4	83.8	14.8	10.9
RFR	198	138	100.0	70.2	94.4	93.4	37.9 🛕	89.5	8.6	5.6
RFS	184	106	98.9	77.2	90.2	67.9 🔺	51.6 🔺	79.2	12.5	10.9
RHQ	445	93	100.0	74.6 🔺	58.7 🛕	44.9 🔺	59.3 🔺	94.6	15.1	27.9
RP5	352	111	100.0	72.4 🔺	88.1	55.4	55.1 🔺	90.8	10.8	27.8

	number	expected	MDT (%)	diagnosis (%)	by nurse specialist (%)	specialist present at diagnosis (%)	active treatment	receiving CT before bronchoscopy	receiving surgery all cases	radiotherapy
N11 Total	1,113	104	93.6	77.0	87.5	65.4	59.0 ▲	91.7	18.1	25.4
RBK	162	103	98.1	83.3	96.9	79.6	58.0 🛕	96.3	15.4	22.8
RR1	414	103	87.2	71.5 🛕	88.4	68.4	57.7	81.4	18.6	17.9
RRK	267	109	96.6	82.4	90.6	50.9	61.0	96.2	23.2	33.7
RXK	270	104	97.8	76.3	77.4 🛕	66.7 🛕	59.6	92.7	14.1	30.4
N12 Total	506	122	96.2	81.2	72.1 🛕	62.3	63.0	78.8	13.4	24.5
RJC	93	1860	91.4	81.7	88.2	68.8 🛕	60.2	74.5	12.9	18.3
RKB	204	82	98.0	80.9	87.7	82.4	71.1	97.1	12.3	30.9
RLT	114	119	98.2	83.3	85.1	70.2 🛕	62.3	52.5	15.8	24.6
RWP00	95	148 •	94.7 🔺	78.9	7.4 🔺	3.2 🛕	49.5 🛕	76.7	13.7	16.8
N20 Total	575	108	98.4	79.1	82.1	65.2	53.6 ▲	88.5	15.1	20.0
RC9	186	171	96.2	78.0	67.7	60.8	45.7	84.3	24.2	15.6
RWG	187	86	100.0	79.7	93.0	62.0 🛕	55.1	91.9	7.0	18.2
RWH	202	98 •	99.0	79.7	85.1	72.3	59.4	90.6	14.4	25.7
N21 Total	690	80 •	97.8	78.7	76.8	63.9	62.8	92.4	13.0	34.1
RAS	107	107	96.3	71.0 🛕	90.7	86.0	55.1	98.0	14.0	35.5
RC3	90	120	96.7	50.0	84.4	82.2	51.1	90.9	3.3	28.9
RFW	94	134	95.7	77.7	3.2 🛕	0.0	67.0	97.1	14.9	39.4
RQM	58	73	98.3	96.6	89.7	58.6	82.8	87.8	10.3	50.0
RT3	19 🔷	13 🄷	84.2 ◆	100.0	84.2 ◆	26.3 ♦	89.5 ♦	75.0 🔷	31.6 🔷	47.4
RV8	88	88	100.0	86.4	89.8	71.6	56.8 🛕	88.2	17.0	12.5
RYJ	234	81	100.0	84.6	88.5	73.9	64.1	92.2	13.2	36.3
N22 Total	812	111	97.8	80.5	92.2	78.4	63.4	83.0	15.1	29.9
RAL	91	106	98.9	90.1	97.8	93.4	60.4	96.8	20.9	25.3
RAP	95	113	100.0	83.2	92.6	84.2	65.3	97.9	12.6	40.0
RKE	112	114	98.2	71.4	94.6	74.1 🛕	55.4	100.0	14.3	19.6
RQW	157	139	96.2	80.3	86.0	59.2	65.0	89.4	19.1	43.9
RRV	113	81	99.1	91.2	83.2	58.4	72.6	87.5	19.5	27.4
RVL	244	115	96.7 •	75.4	97.1	94.3	62.3	62.4	9.8	24.6
N23 Total	635	81 •	96.9	79.2	80.2	57.8	53.9	88.2	8.8	18.9
RF4	206	61	94.2	80.1	57.3	18.4	51.0 🛕	87.2	2.4	16.0
RGC	119	104	96.6	85.7	89.9	74.8 🛕	52.9 🛕	90.9	14.3	17.6
RNH	100	87 •	99.0	78.0	81.0	77.0 🛕	42.0 🛕	78.6	6.0	14.0
RNJ	115	105	97.4	84.3	94.8	71.3 🔺	64.3	92.5	13.0	35.7
RQX	95	95 •	100.0	64.2	98.9	85.3	61.1	92.1	13.7	11.6
N24 Total	702	80 •	98.0	85.2	74.4 🛕	59.1 🛕	56.1 ▲	89.7	13.4	24.8
RJ1	121	44 🔺	98.3	96.7	86.0	68.6	76.9	92.2	21.5	38.0
RJ2	108	93 •	98.1	77.8	83.3	36.1	48.1	87.5	10.2	8.3
RJZ	109	96 •	99.1	83.5	86.2	86.2	53.2	81.1	16.5	30.3
RYQ	364	98 •	97.5	84.1	64.3 🛕	54.7	52.5 🛕	93.3	10.7	23.6
N25 Total	655	83 •	91.6	82.6	79.8 🛕	52.7	56.8 ▲	80.7	12.2	19.5
RAX	117	74	95.7	90.6	94.9	82.9	60.7	80.0	18.8	21.4
RJ6	144	109	94.4	88.9	93.8	89.6	59.0 🛕	95.3	13.9	20.1
	173	72	89.6	83.8	69.4	28.9 🛕	64.7	77.4	15.6	17.3
RJ7										

Code	Actual	% of		Histological	Patient seen	Nurse	% Having	% of patients	%	% receiving
	number	expected	MDT (%)	diagnosis (%)	by nurse specialist (%)	specialist present at diagnosis (%)	active treatment	receiving CT before bronchoscopy	receiving surgery all cases	radiotherapy
N26 Total	1,156	126	95.9	76.0	84.3	65.1 🔺	65.2	90.1	15.1	40.9
RA9	201	129	94.5 🛕	73.1 🔺	86.6	68.2 🔺	67.2	91.8	14.4	47.3
RBZ	119	140	93.3 🔺	68.9 🔺	94.1	64.7 🔺	52.1 🔺	74.2	11.8	21.8
REF	265	119 •	98.9	80.0	95.1	72.5 🔺	77.0	96.3	18.1	49.1
RH8	235	118	97.4	83.4	84.7	78.7 🔺	68.1	85.7 🛕	14.0	46.4
RK9	336	131	94.3 🛕	71.7 🛕	70.8 🛕	47.9 🛕	57.4 🛕	91.0	15.2	33.6
N27 Total	419	104	96.4	76.8	77.8 🛕	61.6	61.6	87.7	13.4	25.5
RBD	108	132	98.1	77.8	90.7	59.3 🛕	59.3 🛕	94.7	14.8	18.5
RD3	155	103	97.4	85.2	81.3	63.9 🛕	61.3	81.3 🛕	11.6	23.9
RDZ	156	92 •	94.2 🔺	67.9 🛕	65.4 🔺	60.9 🔺	63.5	88.6	14.1	32.1
N28 Total	887	105	91.7	76.8	71.3	42.1	61.3	92.0	18.0	29.2
RA3	92	112	85.9	87.0	57.6	28.3	67.4	100.0	18.5	26.1
RA4	89	144	96.6	71.9	80.9	70.8	51.7	100.0	13.5	20.2
RA7	130	72	94.6	83.8	76.2	2.3	81.5	96.9	34.6	35.4
RBA	128	106	76.6	70.3	59.4	39.8	64.8	72.5	14.8	28.9
RD1	184	108	100.0	78.8	88.0	77.7	55.4	96.4	14.1	34.8
RVJ	264	116	92.0 🔺	73.1 🔺	64.4 🔺	33.0 🛕	54.9 🔺	89.8 🛕	15.5	26.5
N29 Total	563	129	96.3	80.6	78.5	55.8	66.8	78.8	17.4	37.1
RLQ	109	147	99.1	79.8	65.1	25.7	64.2	84.5	14.7	32.1
RTE	323	132	96.0	77.1	76.8	51.7	69.7	83.6	18.9	39.6
RWP50	131	110	94.7	90.1	93.9	90.8	61.8	61.1	16.0	35.1
N30 Total	1,164	113	97.3	86.5	86.3	69.8	62.0	89.5	17.9	21.2
RD7	1,104	155	98.3	78.7	81.6	66.1	35.6	76.0	16.1	3.4
RD8	174	139	98.5	97.0	79.7	70.7	64.7	76.0	12.8	23.3
RHW	172	84	96.5	81.4	92.4	55.8	66.9	100.0	10.5	43.6
RN3	183	162	98.9	84.7	86.9	65.0	57.4	96.6	19.7	14.8
RTH	307	101	95.8	87.3	88.3	78.5	73.0	94.3	26.4	17.3
RXQ	195	97	97.4	91.3	86.2	75.4	66.7	88.1	14.4	28.2
NO4 T-4-1	4.467	407	05.0	70.4	72.0 4	FF 2 A	60.2	00.0	45.0	26.0
N31 Total RHM	1,167 234	107 • 52	95.8 • 96.6 •	79.1 • 78.2 •	72.8 ▲ 52.1 ▲	55.2 ▲ 29.1 ▲	68.3 • 74.8 •	89.9 ▲ 96.9 ●	15.8 15.8	36.0 49.1
RHU	383	137	96.3	78.9	72.1	67.6	68.7	92.0	15.1	29.8
RN1	104	111	86.5	84.6	61.5	46.2	69.2	76.2	14.4	32.7
RN5	100	256	97.0	74.0	80.0	61.0	66.0	91.1	14.0	33.0
RNZ	95	134	98.9	78.9	89.5	44.2	72.6	89.5	20.0	43.2
RR2	104	196	95.2	87.5	96.2	85.6	65.4	87.0	20.2	30.8
RYR16	147	136	97.3	74.8	83.7	52.4	57.1	89.5	13.6	34.7
NOO Total	663	122	07.0	02.2	70 F A	E4 0 A	EC 2 A	07 5	16.5	40.3
N32 Total	100	123	97.0	83.2	79.5 A	51.8 🛕	56.3	87.5	16.5	19.2
RA2 RDU	100	92	93.0 🛕	88.0	57.0 🛕	8.0 🛦	58.0 🛕	89.1	13.0	32.0
RTK	201 172	173 • 108 •	100.0 • 94.2 △	82.1	86.1 • 81.4 •	50.2 ▲ 70.3 ▲	56.7 ▲ 52.9 ▲	97.1 • 61.3 •	15.4 17.4	17.9 15.7
RTP	189	121	98.4	84.1	82.5	59.8 A	58.2	88.6	17.4	16.9
N33 Total	660	107	98.8	75.2	87.3	65.9 🛕	53.2	84.2	10.6	29.4
RXC	266	116	98.9	81.6	86.8	68.0 🛕	54.9 🛕	82.8	13.2	30.5
RXH	246	98	98.8	67.1	85.4	66.3 🛕	51.2	89.3	8.5	28.0
RYR18	146	104	98.6	76.7	91.1	61.0 🔺	52.7 🔺	81.8 🔺	9.6	29.5

N34 Total		specialist (%)	specialist present at diagnosis (%)	active treatment	receiving CT before bronchoscopy	receiving surgery all cases	radiotherapy
RPA 148 72 99.3 9 RVV 470 126 99.1 9 RWF 227 112 90.7 A N35 Total 1,092 99 9 94.6 A RJD 154 96 98.7 9 RL4 222 108 99.8 98.6 9 RNA 141 78 68.8 A RWP31 45 107 95.6 R RE9 180 134 100.0 R RRNL 242 142 99.3 9 RRTD 302 182 1100.0 R RTF 371 102 97.6 R RTR 377 140 99.7 R RXW 324 108 97.8 R RXP 387 104 100.0 R RXP 387 104 100.0 R RXP 387 104 97.8 R RRA 140 125 39.3 A RGP 201 153 95.0 R RGQ 212 124 93.9 A RGR 108 208 100.0 R RGT 203 197 100.0 R RGQ 67 191 83.6 A N38 Total 859 127 99.4 R RAJ 220 115 99.5 R RAJ	80.0	44.9 🛕	37.7 🔺	62.8	55.8 🛕	18.9	40.7
RVV 470 126 ● 99.1 ● 90.7 ▲ RWF 227 112 ● 90.7 ▲ RUD 154 96 ● 98.7 ● 88.7 ● RUE 316 102 ● 98.1 ● 88.8 ▲ RWA 141 78 ● 68.8 ▲ RWP31 45 107 ● 95.6 ● 88.9 ● RXW 214 103 ● 99.1 ● N36 Total 2,687 126 ● 98.9 ● 88.9 ● RE9 180 134 ● 100.0 ● 88.9 ● RE9 180 134 ● 100.0 ● 88.8 ● RILN 279 124 ● 97.8 ● 88.3 ● RRIL 242 142 ● 98.3 ● RRT 225 171 ● 99.1 ● RTD 302 182 ● 100.0 ● RTF 371 102 ● 97.6 ● 88.8 ● RTR 377 140 ● 99.7 ● RXW 324 108 ● 97.8 ● RXP 387 104 ● 100.0 ● RXP 387 104 ● 100.0 ● RXP 387 104 ● 100.0 ● RC1 65 114 ● 100.0 ● RC1 65 114 ● 100.0 ● RC2 12 124 ● 93.9 ▲ RGP 201 153 ● 95.0 ● RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 109 31.1 ▲ RGD 201 114 ● 100.0 ● RDA 38.6 ▲ N38 Total 859 127 ● 99.4 ● RAU 220 115 ● 99.5 ● RAU 220 115 ● 99.6 ● RAU 220 115 ● 99.6 ● RAU 220 115 ● 99.6 ● RAU 220 115 ● 99.8 ● RAU 220 115	88.5	96.9	69.2 🔺	73.1	97.6	21.5	26.9
RWF 227 112 ● 90.7 ▲ N35 Total 1,092 99 ● 94.6 ▲ RID 154 96 ● 98.7 ● RIE 316 102 ● 98.1 ● RL4 222 108 ● 98.6 ● RNA 141 78 ● 68.8 ▲ RWP31 45 107 ● 95.6 ● RXW 214 103 ● 99.1 ● N36 Total 2,687 126 ● 98.9 ● RE9 180 134 ● 100.0 ● RLN 279 124 ● 97.8 ● RRNL 242 142 ● 98.3 ● RRT 225 171 ● 99.1 ● RTD 302 182 ● 100.0 ● RTF 371 102 ● 97.6 ● RTF 371 102 ● 97.6 ● RXW 324 108 ● 97.8 ● RXYW 324 108 ● 97.8 ● RXY 387 104 ● 100.0 ● N37 Total 1,519 111 ● 90.0 ▲ RC1 65 114 ● 100.0 ● N37 Total 173 160 ● 98.8 ● RGQ 212 124 ● 93.9 ▲ RGGR 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 212 124 ● 93.9 ▲ RGG 212 124 ● 93.9 ▲ RGG 213 197 ● 100.0 ● RAD 38.0 ● RAD 39.5 ● RAD 201 115 ● 99.5 ● RAD 201 114 ● 100.0 ● RAD 39.8 ● RAD 201 114 ● 100.0 ● RAD 39.8 ● RAD 201 115 ● 99.5 ● RAD 201 114 ● 100.0 ● RAD 39.8 ● RAD 201 114 ● 100.0 ● RAD 39.8 ● RAD 201 114 ● 99.6 ● RAD 206 141 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RNS 188 132 ● 98.4 ●	69.6	88.5	88.5	55.4	23.1	12.8	43.9
N35 Total	79.6	0.0	0.0	64.0	12.5	16.6	45.5
RJD	82.8	79.7 🛕	64.8 🛕	59.0 🔺	100.0	26.0	36.6
RJE 316 102 98.1 81.4 81.2 98.6 81.4 81.2 98.6 98.6 98.6 81.4 81.2 98.6 98.6 98.6 98.7 95.6 98.7 95.6 98.7 95.6 98.7 95.6 98.7 99.1	82.9	81.5	64.3	65.4	82.0	20.1	34.0
RIA	89.0	87.7	57.8 🔺	67.5	57.3	20.1	36.4
RNA 141 78 68.8 A RWP31 45 107 95.6 RXW 214 103 99.1 9 N36 Total 2,687 126 98.9 RE9 180 134 100.0 RLN 279 124 97.8 RRIL 242 142 98.3 RRT 225 171 99.1 RTD 302 182 100.0 RTF 371 102 97.6 RTR 377 140 99.7 RVW 324 108 97.8 RXP 387 104 100.0 RXP 388 RGP 201 153 95.0 RGQ 212 124 93.9 RRGR 108 208 100.0 RRIT 350 104 91.1 RRIT 350 91.5 RRIT 350	77.2	72.8 🛕	43.7 🔺	62.7	90.7	17.7	34.5
RXW 214 103 ● 99.1 ● RXW 214 103 ● 99.1 ● N36 Total 2,687 126 ● 98.9 ● RE9 180 134 ● 100.0 ● RLN 279 124 ● 97.8 ● RRNL 242 142 ● 98.3 ● RRTD 302 182 ● 100.0 ● RTF 371 102 ● 97.6 ● RTR 377 140 ● 99.7 ● RXP 387 104 ● 100.0 ● RXP 387 104 ● 100.0 ● RXP 387 104 ● 100.0 ● RC1 65 114 ● 100.0 ● RCX 140 125 ● 39.3 ▲ RGP 201 153 ● 98.8 ● RGQ 212 124 ● 93.9 ▲ RGGR 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGG 108 208 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RAD 201 114 ● 100.0 ● RAD 201 114 ● 100.0 ● RAD 201 115 ● 99.5 ● RAD 201 114 ● 99.6 ● RAD 39 Total 2,291 119 ● 98.0 ● RKS 221 130 ● 98.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	76.1	93.2	91.0	60.4	92.8	19.4	23.0
N36 Total 2,687 126 ● 98.9 ● RE9 180 134 100.0 ● RLN 279 124 97.8 ● RNL 242 142 98.3 ● RR7 225 171 ● 99.1 ● RTD 302 182 ● 100.0 ● RTF 371 102 ● 97.6 ● RTR 377 140 ● 99.7 ● RXP 387 104 ● 100.0 ● N37 Total 1,519 111 ● 90.0 ▲ RC1 65 114 ● 100.0 ● RCX 140 125 39.3 ▲ RGP 201 153 ● 95.0 ● RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RGT 203 197 ● 100.0 ● RAJ 220 115 <td>89.4</td> <td>53.2 🛕</td> <td>31.9 🔺</td> <td>64.5</td> <td>84.4 🔺</td> <td>26.2</td> <td>36.2</td>	89.4	53.2 🛕	31.9 🔺	64.5	84.4 🔺	26.2	36.2
N36 Total 2,687 126 98.9 RE9 180 134 100.0 RLN 279 124 97.8 RNL 242 142 98.3 RR7 225 171 99.1 RTD 302 182 100.0 RTF 371 102 97.6 RTR 377 140 99.7 RVW 324 108 97.8 RXP 387 104 100.0 N37 Total 1,519 111 90.0 △ RC1 65 114 100.0 ● RCX 140 125 39.3 △ RGD 201 153 95.0 ● RGQ 212 124 93.9 △ RGG 212 124 93.9 △ RGT 203 197 100.0 ● RM1 350 104 91.1 △	91.1	91.1	84.4	71.1	70.4	11.1	40.0
RE9	87.9	94.4	88.8	72.4	81.4	22.4	40.2
RLN 279 124 ● 97.8 ● RNL 242 142 ● 98.3 ● RR7 225 171 ● 99.1 ● RTD 302 182 ● 100.0 ● RTF 371 102 ● 97.6 ● RTR 377 140 ● 99.7 ● RVW 324 108 ● 97.8 ● RXP 387 104 ● 100.0 ● RC1 65 114 ● 100.0 ● RCX 140 125 ● 39.3 ▲ RGN 173 160 ● 98.8 ● RGQ 212 124 ● 93.9 ▲ RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ RQQ 67 191 ● 83.6 ▲ RQQ 190 142 ● 98.4 ● RQ8 190 142 ● 98.4 ● RNS 188 132 ● 98.4 ● RNS 188 132 ● 98.4 ●	76.1	88.9	72.7 🛕	59.5 🔺	88.1 🔺	12.6	27.4
RNL 242 142 98.3 RR7 225 171 99.1 RTD 302 182 100.0 RTF 371 102 97.6 RTR 377 140 99.7 RVW 324 108 97.8 RXP 387 104 100.0 RXP 388 RXP 39.3 RXP 39.4 RXP 39.5 R	66.7 🔺	90.0	90.0	47.2	87.3	11.1	12.2
RR7	76.3	86.7	65.9 🔺	58.8 🛕	84.3	12.9	29.7
RTD 302 182 ● 100.0 ● RTF 371 102 ● 97.6 ● RTR 377 140 ● 99.7 ● RVW 324 108 ● 97.8 ● RXP 387 104 ● 100.0 ● N37 Total 1,519 111 ● 90.0 ▲ RC1 65 114 ● 100.0 ● RCX 140 125 ● 39.3 ▲ RGN 173 160 ● 98.8 ● RGP 201 153 ● 95.0 ● RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGG 212 124 ● 93.9 ▲ RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	90.1	83.9	63.2 🛕	59.9 🛕	88.2	16.1	35.5
RTF 371 102 ● 97.6 ● RTR 377 140 ● 99.7 ● RTR 377 140 ● 99.7 ● RVW 324 108 ● 97.8 ● RXP 387 104 ● 100.0 ● RXP 38.8 ● RXP 39.3 ▲ RXP 39.3 ▲ RXP 39.3 ▲ RXP 39.3 ▲ RXP 39.3 ● SXP 39.3 ● RXP	73.8 🛕	93.8	72.4 🔺	60.0	84.8 🛕	13.3	15.6
RTR 377 140 ● 99.7 ● RVW 324 108 ● 97.8 ● RXP 387 104 ● 100.0 ● N37 Total 1,519 111 ● 90.0 ▲ RC1 65 114 ● 100.0 ● RCX 140 125 ● 39.3 ▲ RGN 173 160 ● 98.8 ● RGP 201 153 ● 95.0 ● RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	77.2	86.4	80.5	57.9 🔺	91.1	14.6	24.5
RVW 324 108 97.8 ■ RXP 387 104 100.0 ■ N37 Total 1,519 111 90.0 ▲ RC1 65 114 100.0 ● RCX 140 125 39.3 ▲ RGN 173 160 98.8 ● RGP 201 153 95.0 ● RGQ 212 124 93.9 ▲ RGR 108 208 100.0 ● RGT 203 197 100.0 ● RM1 350 104 91.1 ▲ N38 Total 859 127 99.4 ● RAJ 220 115 99.5 ● RDD 201 114 100.0 ● RDE 248 141 99.6 ● RQ8 190 142 98.4 ● N39 Total 2,291 119 98.0 ● RK5 221 130 96.8	72.2 🔺	84.4	45.8 🔺	54.4 🔺	78.8 🛕	8.9	18.3
RXP 387 104 100.0 N37 Total 1,519 111 90.0 △ RC1 65 114 100.0 ● RCX 140 125 39.3 △ RGN 173 160 98.8 ● RGP 201 153 95.0 ● RGQ 212 124 93.9 △ RGR 108 208 100.0 ● RGT 203 197 100.0 ● RM1 350 104 91.1 △ RQQ 67 191 83.6 △ N38 Total 859 127 99.4 ● RAJ 220 115 99.5 ● RDD 201 114 100.0 ● RDE 248 141 99.6 ● RQ8 190 142 98.4 ● N39 Total 2,291 119 98.0 ● RK5 221 130 96.8 ●	78.0	95.0	92.6	65.3	95.5	13.0	35.8
RC1 65 114	74.1 A 75.5 •	90.4 • 89.4 •	63.6 A 83.7 •	64.2 • 61.5 •	87.3 A 93.6 •	10.2 14.0	41.7 25.6
RC1 65 114	80.0	78.3	55.6	65.5	84.6	13.3	36.7
RCX 140 125 ● 39.3 ▲ RGN 173 160 ● 98.8 ● RGP 201 153 ● 95.0 ● RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RKS 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	95.4	66.2	16.9	76.9	96.0	12.3	49.2
RGN 173 160 ● 98.8 ● RGP 201 153 ● 95.0 ● RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ RGD 201 115 ● 99.5 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● RQ8 190 142 ● 98.4 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	83.6	90.0	60.7	66.4	93.0	20.0	30.0
RGQ 212 124 ● 93.9 ▲ RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RKS 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	83.2	91.9	45.7	76.3	84.1	13.9	57.8
RGR 108 208 ● 100.0 ● RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RKS 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	74.6	82.6	61.7	59.7	92.9	9.5	27.4
RGT 203 197 ● 100.0 ● RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	85.4	86.8	67.0 🔺	75.5	77.4	12.3	60.4
RM1 350 104 ● 91.1 ▲ RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	79.6	92.6	75.9 🛕	49.1 🔺	85.7	10.2	12.0
RQQ 67 191 ● 83.6 ▲ N38 Total 859 127 ● 99.4 ● RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	79.3	67.5 🛕	56.2 🔺	60.1	50.0	10.3	37.9
N38 Total 859 127 ● 99.4 RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	74.6	67.4 🛕	49.7 🔺	67.7	77.2	16.3	29.4
RAJ 220 115 ● 99.5 ● RDD 201 114 ● 100.0 ● RDE 248 141 ● 99.6 ● RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	79.1	56.7 🔺	49.3 🛕	41.8 🔺	87.5	11.9	10.4
RDD 201 114 100.0 ■ RDE 248 141 99.6 ■ RQ8 190 142 98.4 ■ N39 Total 2,291 119 98.0 ■ RJF 132 213 98.5 ■ RK5 221 130 96.8 ■ RNQ 206 141 98.1 ■ RNS 188 132 98.4 ●	80.8	89.4	76.8 🛕	59.8 ▲	81.4	11.9	30.8
RDE 248 141 99.6 RQ8 190 142 98.4 RQ8 190 142 98.4 RQ8 190 142 98.0 RQ8 PRJF 132 213 98.5 RK5 221 130 96.8 RNQ 206 141 98.1 RNS 188 132 98.4 RNA	75.0	97.7	89.5	56.8 🔺	79.2	8.2	21.8
RQ8 190 142 ● 98.4 ● N39 Total 2,291 119 ● 98.0 ● RJF 132 213 ● 98.5 ● RK5 221 130 ● 96.8 ● RNQ 206 141 ● 98.1 ● RNS 188 132 ● 98.4 ●	80.1	81.1	70.1 🔺	63.2	86.0 🛕	14.9	26.9
N39 Total 2,291 119 98.0 ■ RJF 132 213 98.5 ■ RK5 221 130 96.8 ■ RNQ 206 141 98.1 ■ RNS 188 132 98.4 ■	83.9	82.7	56.0 🔺	70.2	94.9	15.7	50.8
RJF 132 213 • 98.5 • RK5 221 130 • 96.8 • RNQ 206 141 • 98.1 • RNS 188 132 • 98.4 •	84.2	97.4	96.3	46.3 🛕	61.2	7.9	19.5
RJF 132 213 • 98.5 • RK5 221 130 • 96.8 • RNQ 206 141 • 98.1 • RNS 188 132 • 98.4 •	76.2	76.3 🛕	46.6	61.1	89.2	18.1	26.7
RNQ 206 141 • 98.1 • RNS 188 132 • 98.4 •	79.5	86.4	68.9 🛕	69.7	96.4	30.3	16.7
RNS 188 132 • 98.4 •	84.2	99.1	91.9	59.3 🔺	85.1	11.3	25.3
	65.5 🛕	95.1	83.5	52.4 🔺	93.9	20.9	18.4
	64.4	90.4	54.8 🛕	53.2	80.4	16.0	29.8
RTG 304 118 • 97.0 •	77.6	81.3	58.6	67.8	63.0 🛕	20.7	35.9
RWD 356 102 ● 95.5 ●	79.8	34.3 🛕	19.9 🔺	63.2	85.0 🛕	16.3	18.0
RWE 479 103 ● 99.8 ●	67.6 🔺	77.7 🛕	51.8 🛕	60.8	96.5	16.1	29.6
RX1 403 121 • 99.3 •	87.8	76.4 🔺	0.0	60.8	97.2	19.4	30.8

Code	Actual number	% of expected	Discussed at MDT (%)	Histological diagnosis (%)	Patient seen by nurse specialist (%)	Nurse specialist present at diagnosis (%)	% Having active treatment	% of patients receiving CT before bronchoscopy	receiving surgery all cases	% receiving radiotherapy
NWW Total	494	104	99.4	71.5	92.3	n/a	60.7	92.6	8.9	41.5
7A1A1	188	103	98.9	70.7	94.7	n/a	61.2	90.5	10.6	42.6
7A1A4	195	128	99.5	74.4	88.7	n/a	61.0	96.5	7.2	41.0
7A1AU	111	78	100.0	67.6	94.6	n/a	59.5	88.6	9.0	40.5
SWCN Total	1,574	103	99.0	73.6	80.4	n/a	59.3	89.1	10.7	39.4
7A2AG	46	77	100.0	69.6	67.4	n/a	43.5	93.3	8.7	28.3
7A2AJ	37	116	100.0	78.4	0.0	n/a	56.8	94.7	8.1	37.8
7A2AL	125	158	100.0	82.4	83.2	n/a	64.0	91.1	9.6	28.0
7A2BL	91	140	87.9	71.4	20.9	n/a	51.6	87.9	11.0	29.7
7A3B7	104	107	100.0	66.3	95.2	n/a	64.4	74.1	11.5	51.0
7A3C4	95	77	100.0	76.8	87.4	n/a	58.9	100.0	6.3	37.9
7A3C7	102	87	100.0	71.6	86.3	n/a	48.0	88.5	9.8	27.5
7A3CJ	86	108	100.0	80.2	73.3	n/a	72.1	52.6	10.5	58.1
7A4BV	3	2	100.0	66.7	66.7	n/a	66.7	0.0	66.7	33.3
7A4C1	255	138	100.0	71.4	95.7	n/a	57.6	91.3	13.3	36.5
7A5B1	133	102	97.7	78.9	83.5	n/a	67.7	94.1	13.5	52.6
7A5B3	111	90	100.0	69.4	91.0	n/a	67.6	95.0	12.6	49.5
7A6AM	114	104	100.0	68.4	88.6	n/a	56.1	93.8	7.9	46.5
7A6AR	272	139	99.3	73.9	80.9	n/a	56.3	97.9	9.2	33.8
Wales Total	2,068	104	99.1	73.1	83.3	n/a	59.6	90.0	10.3	39.9
LUCADA Total	33,463	110	96.2	76.9	79.6	55.1 🔺	60.1	87.8	14.7	29.2
Range Network										
Min		80.1	90.0	66.6	44.9	0.1	53.2	55.8	8.8	18.9
LQ		104.3	94.9	75.4	76.4	48.7	57.1	84.3	12.6	24.3
Median		101.5	97.2	78.9	80.1	60.4	60.2	88.4	14.3	29.3
UQ		117.9	98.3	80.8	84.4	65.2	62.8	90.1	17.3	34.1
Max		128.8	99.8	86.5	92.3	78.4	68.3	93.5	20.1	41.5
Range Trust/Hea	alth Board									
Min		44.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LQ		101.7	95.1	72.1	76.6	41.0	55.0	83.2	11.0	20.2
Median		110.4	98.1	78.0	86.0	62.6	59.9	89.4	14.0	29.4
UQ		134.3	99.3	83.5	91.1	75.7	65.7	94.7	16.5	35.9
Max		1860.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Definition	A		•
Number of cases with date first seen in year specified			
Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010*	<50%	50- 75%	≥75%
Complete when MDT Discussion Indicator = Y (denominator = all cases)	<95%		≥95%
Complete when Histology is present or Basis of diagnosis equals 5, 6 or 7 (denominator = all cases)	<75%		≥75%
Complete when Patient Assessed by a Lung Cancer Nurse Specialist = Y (denominator = all cases)	<80%		≥80%
Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis = Y (denominator = all cases)	<80%		≥80%
Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery or Teletherapy (denominator = all cases)	<80%		≥60%
Complete when CT Scan Date before or equal to Bronchoscopy Date (denominator = cases with Bronchoscopy Date present)	<80%		≥90%
Complete when Surgery Procedure Date is present (denominator = all cases)			
Complete when either Teletherapy Treatment Course Start Date or Brachytherapy Therapy Treatment Course Start Date is present (denominator = all cases)			
	Number of cases with date first seen in year specified Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010* Complete when MDT Discussion Indicator = Y (denominator = all cases) Complete when Histology is present or Basis of diagnosis equals 5, 6 or 7 (denominator = all cases) Complete when Patient Assessed by a Lung Cancer Nurse Specialist = Y (denominator = all cases) Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis = Y (denominator = all cases) Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery or Teletherapy (denominator = all cases) Complete when CT Scan Date before or equal to Bronchoscopy Date (denominator = cases with Bronchoscopy Date present) Complete when Surgery Procedure Date is present (denominator = all cases) Complete when either Teletherapy Treatment Course Start Date or Brachytherapy Therapy Treatment Course	Number of cases with date first seen in year specified Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010* Complete when MDT Discussion Indicator = Y (denominator = all cases) Complete when Histology is present or Basis of diagnosis equals 5, 6 or 7 (denominator = all cases) Complete when Patient Assessed by a Lung Cancer Nurse Specialist = Y (denominator = all cases) Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis = Y (denominator = all cases) Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery or Teletherapy (denominator = all cases) Complete when CT Scan Date before or equal to Bronchoscopy Date (denominator = cases with Bronchoscopy Date present) Complete when Surgery Procedure Date is present (denominator = all cases) Complete when either Teletherapy Treatment Course Start Date or Brachytherapy Therapy Treatment Course	Number of cases with date first seen in year specified Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010* Complete when MDT Discussion Indicator = Y (denominator = all cases) Complete when Histology is present or Basis of diagnosis equals 5, 6 or 7 (denominator = all cases) Complete when Patient Assessed by a Lung Cancer Nurse Specialist = Y (denominator = all cases) Complete when Patient Assessed by a Lung Cancer Nurse Specialist = Y (denominator = all cases) Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis = Y (denominator = all cases) Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery or Teletherapy (denominator = all cases) Complete when CT Scan Date before or equal to Bronchoscopy Date (denominator = cases with Bronchoscopy Date present) Complete when Surgery Procedure Date is present (denominator = all cases) Complete when either Teletherapy Treatment Course Start Date or Brachytherapy Therapy Treatment Course

Table 2a Process, nursing	g, imaging and clin	ical measures Eng	land and Wales (2011 all) part II					
Code	Actual number	% of expected	Number of NSCLC	% of NSCLC having Surgery	NSCLC Stage IA, IB, IIA or IIB	% of NSCLC Stage IA, IB, IIA or IIB having surgery	PS0-1 NSCLC Stage IA, IB, IIA or IIB	% PS0-1 NSCLC Stage IA, IB, IIA or IIB having FEV1 absolute and % predicted	
N01 Total	1,128	114	941	10.5	201	42.8	133	43.6	
RTX	267	145	221	5.9 🛕	45	26.7	28	50.0	
RXL	287	119 •	235	12.3 🛕	49	51.0 🛕	35	82.9	
RXN	269	198	224	13.8	45	57.8	28	50.0	
RXR	305	71	261	10.0	62	37.1 🛕	42	2.4	
N02 Total	2,432	111	2,013	15.3	491	42.4	321	29.6	
RBT	126	105	99	25.3	27	59.3	6	0.0	
RJN	115	107	90	15.6	23	43.5	13	61.5	
RM2	288 🔷	122 🔷	241 🔷	21.6 🔷	93 🔷	41.9 🔷	77 🔷	0.0	
RM3	228	104	197	18.8	46	65.2	35	31.4	
RM4	97	105	75	16.0	16	50.0 🛕	7	14.3	
RMC	227	103	178	14.0	44	45.5 🛕	26	76.9	
RMP	150	100	123	11.4 🔺	24	33.3 🛕	6	50.0	
RRF	243	122 •	198	12.6 🛕	43	34.9 🛕	35	85.7	
RW3	134	112 •	112	17.0	16	31.3 🛕	10	60.0	
RW6	603	105	531	11.9 🔺	117	36.8	74	0.0	
RWJ	220	152	169	12.4 🛕	42	33.3 🛕	32	50.0	
N03 Total	1,891	123	1,626	16.7	432	52.8	199	63.8	
LLCU	405	95 •	341	17.9	96	59.4	58	81.0	
RBL	325	273	268	17.9	72	50.0 🛕	29	100.0	
RBN	238	108	214	14.5	52	50.0 🛕	16	68.8	
REM	341	106	286	17.1	80	48.8 🛕	28	7.1	
REN •	2 🔷	4 🔷	2 🔷	50.0 🔷	0 🔷	0.0 ♦	0 🔷	0.0	
RJR	194	160	168	13.1	39	48.7	21	61.9	
RVY	170	207	150	15.3	38	55.3	22	90.9	
RWW	216	112	197	18.8	55	54.5	25	20.0	
N06 Total	1,978	109	1,617	15.4	406	47.3	252	45.6	
RAE	293	122	257	17.5	69	44.9 🛕	44	2.3	
RCB	202	117 •	159	17.0	33	63.6	30	0.0	
RCD	110	121 •	87	13.8 🛕	16	50.0 🛕	10	60.0	
RCF	118	100	91	12.1 🔺	19	47.4	14	64.3	
RR8	575	102	476	16.4	137	43.1	71	73.2	
RWY	239	98	196	9.2	41	34.1	23	82.6	
RXF	441	116	351	16.5	91	54.9	60	46.7	
N07 Total	815	108	648	19.4	127	63.0	97	33.0	
RCC	131	104	104	15.4	23	47.8 🛕	14	21.4	
RJL	317	140	252	17.9	42	66.7	30	70.0	
RWA	367	92 •	292	22.3	62	66.1	53	15.1	
N08 Total	1,362	109	1,109	14.1	263	45.6	160	90.0	
RFF	183	140	148	15.5	35	42.9	22	77.3	
RFR	198	138	171	9.9	54	27.8	21	100.0	
RFS	184	106	152	11.8 🛕	28	50.0 🛕	17	88.2	
RHQ	445	93 •	361	17.5	91	54.9	68	89.7	
RP5	352	111 •	277	12.6	55	47.3 🛕	32	93.8	

Cod	% small cell receiving chemotherapy	Number of patients small cell lung cancer	% pre- treatment NSCLC histology NOS	Number of pre-treatment NSCLC	% histologically confirmed NSCLC having surgery	Number of histologically confirmed NSCLC	or IV ving	% PS0-1 St IIIB o NSCLC hav chemother	Number of PS0- 1 NSCLC Stage IIIB or IV
N01 Tota	77.2	127	11.7	758	13.0	760	•	62.2	225
RT.	80.0	30	19.0	153	8.3	156	•	55.9	59
RX	78.4	37	15.2	171	17.0	171	•	83.0	47
RX	77.8	27	4.5	202	15.3	202	•	63.6	44
RX	72.7	33	10.8	232	11.3	231		53.3	75
N02 Tota	70.0	297	26.0	1,336	21.4	1,367	A	45.7	505
RB	61.1	18	16.9	71	33.3	72	A	25.0	8
RJI	91.7	12	13.1	61	19.7	61	<u> </u>	41.7	24
RM	68.8	32 🔷	11.2 •	152 🔷	32.1 🔷	156	•	48.0	50 🄷
RM	64.0	25	25.4	138	26.2	141	A	43.5	46
RM	86.7	15	27.3	44	26.7	45	•	63.2	19
RM	64.7	34	16.2	99	22.9	105	•	55.6	27
RM	73.7	19	32.5	83	16.5	85	•	73.3	15
RR	66.7	33	15.4	149	14.7	150		36.6	71
RW	50.0	20	24.7	73	22.8	79	A	35.7	28
RW	69.1	55	35.1	336	17.0	342	A	45.4	163
RW	84.8	33	47.7	130	16.0	131		50.0	54
N03 Tota	66.7	183	10.0	982	26.5	999	•	59.5	289
LLC	61.2	49	6.1	247	23.4	252	•	77.4	62
RB	72.7	33	14.1	170	27.5	171	A	49.1	57
RBI REI	72.2 • 67.5 •	18 40	8.4 11.4	119 184	23.9 26.1	117 184	•	55.2 58.3	29 48
RE	0.0	0 •	0.0	2 🄷	50.0	2 🌢	•	0.0	0 •
RJ	62.5	16	10.2	88	25.0	88	A	54.1	37
RV	75.0	12	9.4	85	27.1	85	•	64.7	34
RWV	60.0	15	12.6	87	37.0	100	A	45.5	22
			1210		2112				
N06 Tota	68.9	254	13.2	1,039	22.8	1,053	•	60.3	345
RA	78.6	28	12.8	141	29.8	141	•	57.1	49
RC	55.6	27	20.8	101	26.2	103		34.4	32
RC	57.9	19	17.9	56	14.1	64	•	77.8	18
RC	92.9	14	18.3	60	18.3	60	•	61.5	26
RR	72.5	69	16.7	330	22.7	330	•	74.2	97
RW	80.0	35	14.0 2.2	121	14.8	122	•	72.1	43
RX	58.1	62	2.2	230	24.9	233		45.0	80
N07 Tota	67.0	100	24.7	388	24.6	426	A	51.1	178
RC	76.2	21	8.0	50	26.8	56	•	57.7	26
RJ	74.3	35	24.5	147	26.6	158	•	65.7	70
RW	56.8	44	29.3	191	22.6	212		36.6	82
NOO To to	70.6	407	40 F	702	20.4	750		F0 3	272
N08 Tota	70.6	187	19.5	703	20.4	758		59.2	272
RF	72.4 • 56.5 A	29	26.6 13.0	94 100	22.1 15.2	104 112	•	61.5 63.2	39 38
RF	75.0	24	15.8	100	15.2	111	A	46.7	30
RH	83.1	59	23.5	247	25.4	248	•	73.0	89
	05.1	33	23.3	471			_	75.0	0,5

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Code	Actual number	% of expected	Number of NSCLC	% of NSCLC having Surgery	NSCLC Stage IA, IB, IIA or IIB	% of NSCLC Stage IA, IB, IIA	PS0-1 NSCLC Stage IA, IB, IIA	% PS0-1 NSCLC Stage IA, IB, IIA or IIB having	
			Nocec	naving surgery	15, 117 (51 115	or IIB having surgery	or IIB	FEV1 absolute and % predicted	
111 Total	1,113	104	936	18.2	230	59.6	156	59.0	
BK	162	103	137	15.3	31	51.6	20	55.0	
RR1	414	103	354	17.8	87	58.6	57	49.1	
RRK	267	109	215	23.7	64	65.6	44	79.5	
RXK	270	104	230	15.2	48	58.3	35	51.4	
I12 Total	506	122	426	13.8 🛕	68	58.8	50	44.0	
RJC	93	1860	78	15.4	18	55.6	9	0.0	
RKB	204	82	177	13.6	24	58.3	22	36.4	
RLT	114	119	90	14.4	17	58.8	12	75.0	
RWP00	95	148	81	12.3	9	66.7	7	71.4	
I20 Total	E7E	100	464	15.5	76	42.4	EO	16.0	
N20 Total	575	108	464 157	15.5	76	43.4 △ 54.5 ●	50	16.0	
RC9	186	171	157	22.9	22		14	21.4	
RWG	187 202	86 • 98 •	147 160	5.4 A 17.5 •	15 39	6.7 △ 51.3 △	5 31	100.0 0.0	
XVVII	202	98	160	17.5	39	31.3	31	0.0	
I21 Total	690	80 •	590	13.4	109	53.2	78	78.2	
RAS	107	107	86	15.1	8	62.5	6	100.0	
RC3	90	120	79	2.5 🛕	8	25.0 🛕	4	75.0	
FW	94	134	78	15.4	19	57.9	15	86.7	
RQM	58	73	46	13.0 🛕	7	71.4	7	85.7	
tT3 ♦	19 🔷	13 🔷	18 🔷	33.3 🔷	2 🔷	100.0	1 🔷	100.0	
8V8	88	88 •	78	17.9	16	56.3	12	100.0	
RYJ	234	81	205	12.7 🛕	49	49.0	33	60.6	
N22 Total	812	111	676	15.5	123	56.1	76	59.2	
RAL	91	106	75	22.7	14	64.3	8	100.0	
RAP	95	113 •	77	15.6	9	55.6	5	80.0	
RKE	112	114	97	15.5	19	42.1 🔺	10	90.0	
RQW	157	139 •	128	20.3	32	53.1	19	36.8	
RRV	113	81 •	93	20.4	25	64.0	17	64.7	
RVL	244	115	206	7.8 🛕	24	58.3	17	35.3	
N23 Total	635	81 •	552	8.5 🛕	98	34.7	50	64.0	
RF4	206	61	182	1.6 🔺	20	5.0 🛕	0	0.0	
RGC	119	104	98	14.3	23	39.1 🛕	18	61.1	
RNH	100	87 •	91	5.5 🛕	10	30.0 🛕	6	0.0	
RNJ	115	105	92	15.2	23	56.5	15	93.3	
RQX	95	95 •	89	12.4 🛕	22	36.4	11	63.6	
N24 Total	702	80	603	13.9 🛕	124	49.2	69	26.1	
J1	121	44 🛕	107	22.4	32	59.4	12	0.0	
J2	108	93	93	11.8	22	45.5	14	0.0	
JZ	109	96	97	18.6	22	63.6	15	60.0	
RYQ	364	98	306	10.1	48	37.5	28	32.1	
IDE Total	CFF.	92.	FF4	42.0	00	46.0	FA	00.0	
I25 Total	655	83	551	12.0 🛕	96	46.9	54	88.9	
RAX	117	74	93	18.3	21	61.9	12	100.0	
RJ6 RJ7	144 173	109 •	118 144	13.6 A 16.7 •	14 35	42.9 △ 60.0 •	9 26	77.8 92.3	
RPY 🔷	17 🔷	0 🔷	15 ♦	0.0 ♦ 5.1 ▲	1 ♦	0.0 ♦	0 ♦	0.0 ♦ 71.4	

Cod	ving	% small (receivi chemothera	Number of patients small cell lung cancer	% pre- treatment NSCLC histology NOS	Number of pre-treatment NSCLC	% histologically confirmed NSCLC having surgery	Number of histologically confirmed NSCLC	or IV ving	% PS0-1 Sta IIIB o NSCLC hav chemothera	Number of PS0- 1 NSCLC Stage IIIB or IV
N11 Tota		65.2	112	16.2	678	24.9	684	•	62.7	225
RBI	<u> </u>	47.1	17	18.8	112	18.8	112	•	80.0	20
RR		64.7	34	18.5	233	26.5	238		64.8	88
	•		32	13.2	167		168	•		
RRI		68.8	29	14.5		30.4	166	•	53.8 61.5	52 65
RXI		72.4	29	14.5	166	21.1	100		61.5	65
N12 Tota	•	68.3	63	6.1	296	17.8	332	A	43.3	150
RJ	•	92.3	13	5.7	53	19.7	61	•	55.0	20
RK		60.9	23	2.6	114	17.3	139	A	39.1	87
RL		76.5	17	8.8	68	18.3	71	_	40.0	25
RWP0		40.0	10	9.8	61	16.4	61	•	55.6	18
			L							
N20 Tota	A	62.9	62	22.9	323	19.1	345		45.1	91
RC	A	42.9	14	21.7	106	26.5	117		20.0	25
RW	•	66.7	24	19.8	101	7.3	109		53.3	30
RWI	•	70.8	24	26.7	116	22.7	119	•	55.6	36
N21 Tota		58.1	74	21.5	405	17.8	445	A	52.2	178
RA		62.5	16	71.4	42	23.6	55	A	25.0	20
RC		75.0	8	52.0	25	5.7	35	A	48.3	29
RFV		50.0	8	20.4	49	20.7	58	A	33.3	21
RQN		80.0	10	4.5	44	13.6	44	•	77.8	9
RT.		0.0	0 🔷	13.3 ♦	15 🔷	33.3 ♦	18 🔷	•	100.0	3 •
RV		33.3	9	17.2	64	21.2	66	•	69.0	29
RY	A	52.2	23	11.4	166	15.4	169	•	55.2	67
N22 Tota	A	64.5	93	14.9	477	19.8	520	•	57.4	162
RA		50.0	10	1.8	55	25.8	66	•	75.0	12
RA	<u> </u>	47.1	17	15.7	51	19.7	61	A	44.4	18
RK		77.8	9	6.3	64	22.7	66	A	52.2	23
RQV			21	15.5	84	25.8	97	A	42.9	21
RR		92.3	13	15.9	82	22.9	83	_	52.2	23
RV		91.3	23	22.7	141	10.2	147	•	66.2	65
				<u> </u>						
N23 Tota	•	66.0	53	11.7	412	10.7	420	•	63.8	80
RF-	A	58.8	17	7.1	141	2.1	141		0.0	1
RG	A	50.0	14	5.1	78	17.3	81	•	55.6	27
RNI	A	60.0	5	13.0	69	7.2	69		44.4	18
RN	•	85.7	14	11.3	71	18.9	74	•	90.0	10
RQ	•	100.0	3	32.1	53	16.4	55	•	79.2	24
N24 Tota		68.6	70	16.9	439	16.5	502	•	59.2	142
RJ		66.7	9	17.4	92	23.3	103	•	78.9	19
RJ		50.0	10	15.4	52	14.3	70	•	69.2	26
RJ:		60.0	10	11.3	80	22.5	80	A	29.6	27
RYC		75.6	41	19.1	215	12.4	249		61.4	70
NOT To	<u> </u>	F7.0	F0	40.0	425	44.0	420		60.0	420
N25 Tota		57.6 57.1	59 14	18.8 21.0	425 81	14.8 20.7	439 82	•	69.0 83.3	129 18
		50.0	20	12.1	99	14.7	102	•	72.4	29
PΙ		50.0	20	14.1	33	1-7.7	102	_		
RJ:		79.6	1/1	23.7	11/	20.5	117		75.6	//5
RJ RJ RP		78.6 100.0	14 1 ♦	23.7 36.4 ◆	114 11 ♦	20.5 0.0 ♦	117 13 ♦	•	75.6 75.0	45 4 ♦

Table 2a (continued)

Code	Actual number	% of expected	Number of	% of NSCLC	NSCLC Stage IA,	% of NSCLC	PS0-1 NSCLC	% PS0-1 NSCLC Stage	
			NSCLC	having Surgery	IB, IIA or IIB	Stage IA, IB, IIA or IIB having surgery	Stage IA, IB, IIA or IIB	IA, IB, IIA or IIB having FEV1 absolute and % predicted	
N26 Total	1,156	126	928	13.8 🛕	187	52.9	129	36.4	
RA9	201	129	171	12.9	39	46.2	27	92.6	
RBZ	119	140	97	10.3	13	61.5	7	28.6	
REF	265	119	206	16.5	45	60.0	34	11.8	
RH8	235	118	188	11.2	36	47.2	27	0.0	
RK9	336	131	266	15.4	54	53.7	34	47.1	
N27 Total	419	104	342	15.2	63	69.8	49	79.6	
RBD	108	132	92	15.2	19	68.4	16	68.8	
RD3	155	103	116	14.7	20	60.0	14	85.7	
RDZ	156	92	134	15.7	24	79.2	19	84.2	
N28 Total	887	105	734	19.3	163	66.3	102	27.5	
RA3	92	112	73	19.2	13	76.9	9	22.2	
RA4	89	144	73	13.7	15	33.3	8	0.0	
RA7	130	72	118	36.4	47	78.7	40	15.0	
RBA	128	106	106	14.2	8	100.0	1	0.0	
RD1	184	108	139	15.1	32	43.8	15	0.0	
RVJ	264	116	225	17.3	48	70.8	29	69.0	
N29 Total	563	129 •	469	17.7	111	59.5	80	25.0	
RLQ	109	147	87	16.1	15	73.3	11	81.8	
RTE	323	132	274	19.0	76	57.9	56	19.6	
RWP50	131	110	108	15.7	20	55.0	13	0.0	
N30 Total	1,164	113	944	18.0	207	54.6	142	61.3	
RD7	174	155	156	15.4	26	38.5 🛕	15	0.0	
RD8	133	139 •	90	12.2 🔺	8	50.0 🛕	5	0.0	
RHW	172	84 •	146	12.3 🛕	29	51.7 🛕	21	100.0	
RN3	183	162 •	148	18.9	42	57.1	29	89.7	
RTH	307	101	243	27.2	71	62.0	46	73.9	
RXQ	195	97 •	161	14.3	31	51.6	26	23.1	
N31 Total	1,167	107	925	14.3	152	52.6	104	56.7	
RHM	234	52	174	9.8 🛕	30	33.3 🛕	16	93.8	
RHU	383	137	314	15.9	43	58.1	33	0.0	
RN1	104	111	79	17.7	20	55.0	9	77.8	
RN5	100	256	83	14.5	11	45.5 🛕	6	100.0	
RNZ	95	134	75	20.0	12	83.3	11	27.3	
RR2	104	196	85	12.9 🔺	15	66.7	14	100.0	
RYR16	147	136	115	11.3 🛕	21	42.9 🛕	15	93.3	
N32 Total	662	123	553	15.4	106	48.1 🛕	57	61.4	
RA2	100	92	87	9.2	7	14.3	0	0.0	
RDU	201	173	159	17.0	42	52.4	26	26.9	
RTK	172	108	149	17.4	34	55.9	17	82.4	
RTP	189	121	158	15.2	23	39.1	14	100.0	
NOO Tet-1	550	407	F22	40.0 4	422	20.0	FC	45.4	
N33 Total RXC	660 266	107 • 116 •	533 218	10.9 1	122 62	36.9 ▲ 38.7 ▲	56 36	16.1 2.8	
RXH	246	98	202	8.4	36	33.3	9	22.2	
RYR18	146	104	112	10.7	24	37.5	11	54.5	
KIKIO	140	104	112	10.7	24	57.5	11	J-1.J	

Cod	% small cell receiving chemotherapy	Number of patients small cell lung cancer	% pre- treatment NSCLC histology NOS	Number of pre-treatment NSCLC	% histologically confirmed NSCLC having surgery	Number of histologically confirmed NSCLC	or IV ving	% PS0-1 Si IIIB o NSCLC ha chemothe	Number of PS0- 1 NSCLC Stage IIIB or IV
N26 Tota	69.2	130	18.3	652	18.8	658	•	57.3	248
RA	76.5	17	5.2	115	18.5	119	<u> </u>	53.8	39
RB	54.5	11	44.3	61	13.1	61	•	60.7	28
RE	72.2	36	26.0	154	22.1	154	A	50.8	59
RH	83.3	30	7.5	147	14.1	149	•	67.2	58
RK	55.6	36	20.0	175	22.3	175	A	54.7	64
N27 Tota	76.2	42	14.6	239	20.5	249		52.7	110
RBI	75.0	8	13.4	67	20.0	70	•	60.0	30
RD	75.0	24	10.8	93	18.3	93	•	58.8	34
RD	80.0	10	20.3	79	23.3	86	A	43.5	46
N28 Tota	68.6	70	14.1	524	26.4	531	•	63.7	124
RA	72.7	11	9.8	61	23.0	61	•	72.7	11
RA	75.0	4	33.3	48	20.8	48	•	62.5	8
RA	100.0	6	9.4	96	44.3	97	•	71.4	21
RB	70.0	10	14.9	67	22.1	68	•	100.0	6
RD	65.2	23	15.0	100	20.6	102	A	37.1	35
RV	56.3	16	11.8	152	23.9	155	•	74.4	43
			<u>'</u>	<u> </u>					
N29 Tota	62.1	66	30.0	360	22.8	364	A	35.8	120
RLO	64.3 🛕	14	19.1	68	20.6	68	A	50.0	26
RT	68.6	35	38.1	197	25.9	201		35.7	70
RWP5	47.1	17	21.1	95	17.9	95	A	20.8	24
		,	1						
N30 Tota	70.5	132	29.3	751	20.5	790	A	53.0	253
RD	61.5	13	31.6	98	18.5	119	A	38.1	42
RD	75.9	29	20.7	87	12.8	86	•	66.7	18
RHV	64.3	14	54.4	103	15.7	115		53.7	41
RN	73.7	19	31.6	117	21.3	122		51.4	35
RTI	70.3	37	15.8	203	30.4	204	•	60.4	53
RXO	70.0	20	32.2	143	16.0	144		53.1	64
N31 Tota	75.2	137	21.2	643	19.0	690		50.0	290
RHN	88.6	35	12.9	116	13.6	125		47.2	53
RHI	68.3	41	24.0	221	20.9	234	A	37.9	95
RN	91.7	12	48.0	50	22.2	63	•	66.7	15
RN	83.3	12	13.2	53	20.7	58	•	62.1	29
RN	70.0	10	11.8	51	26.8	56	•	63.0	27
RR	87.5	8	26.8	71	15.1	73		48.5	33
RYR1	47.4	19	14.8	81	16.0	81	•	60.5	38
N32 Tota	55.9 🛕	59	22.6	402	18.7	445	•	56.8	118
RA	80.0	5	33.3	66	10.5	76	A	0.0	1
RDI	46.2	26	16.9	124	21.8	124	•	70.0	40
RT	57.1	14	11.9	84	22.2	117	A	41.4	29
RT	64.3	14	29.7	128	17.2	128	•	56.3	48
N33 Tota	56.9	72	18.2	368	15.4	371	A	46.6	118
RX	55.2	29	14.2	169	17.2	169	•	58.3	48
RXI	61.5	26	16.0	119	13.1	122	A	50.0	34
RYR1	52.9	17	30.4	79	15.2	79		27.8	36

Table 2a (continued)

		ical measures Engla		-		0/ 63300		0/ 200 4 11001 0 0	
Code	Actual number	% of expected	Number of NSCLC	% of NSCLC having Surgery	NSCLC Stage IA, IB, IIA or IIB	% of NSCLC Stage IA, IB, IIA or IIB having surgery	PS0-1 NSCLC Stage IA, IB, IIA or IIB	% PS0-1 NSCLC Stage IA, IB, IIA or IIB having FEV1 absolute and % predicted	
N34 Total	975	108	802	17.3	126	61.1	90	16.7	
RN7	130	107	105	20.0	19	57.9	16	93.8	
RPA	148	72	132	11.4	19	47.4	12	0.0	
RVV	470	126	378	14.8	62	54.8	45	0.0	
RWF	227	112	187	25.1	26	88.5	17	0.0	
N35 Total	1,092	99 •	922	20.8	192	68.8	131	38.2	
RJD	154	96 •	115	22.6	26	80.8	20	95.0	
RJE	316	102	281	17.1	33	75.8	20	5.0	
RL4	222	108	196	19.4	51	52.9	32	87.5	
RNA	141	78 •	120	29.2	30	90.0	18	11.1	
RWP31	45	107	35	14.3	7	71.4	5	0.0	
RXW	214	103	175	22.9	45	60.0	36	0.0	
NOCT / I	2.507	425	2.474	42.7	407	47.6	242	77.6	
N36 Total	2,687	126	2,174	13.7 A 12.2 A	487	47.6 ▲ 43.3 ▲	313 15	77.6	
RE9	180	134	147		30			93.3	
RLN RNL	279 242	124 • 142 •	186	12.5 A 18.8 •	52 39	34.6 △ 69.2 ●	29 28	86.2 92.9	
RR7	225	171	182	14.8	48	41.7	20	47.6	
RTD	302	182	238	15.5	49	59.2	27	85.2	
RTF	371	102	311	9.6	55	49.1	43	88.4	
RTR	377	140	307	15.6	80	50.0	59	67.8	
RVW	324	108	269	11.9	68	38.2	41	90.2	
RXP	387	104	310	13.9 🛕	66	48.5	50	60.0	
					-				
N37 Total	1,519	111 •	1,263	12.8 🔺	228	47.4	137	29.9	
RC1	65	114	56	10.7 🔺	5	60.0	5	100.0	
RCX	140	125	115	21.7	27	55.6	19	0.0	
RGN	173	160	140	12.1 🔺	24	45.8 🛕	18	66.7	
RGP	201	153	174	9.2 🛕	30	30.0 🛕	16	0.0	
RGQ	212	124	166	9.0 🛕	22	54.5	16	100.0	
RGR	108	208	90	8.9 🛕	14	50.0 🛕	10	0.0	
RGT	203	197	176	11.4 🛕	38	31.6	28	3.6	
RM1	350 67	104	289	16.6	59 9	57.6	21	33.3	
RQQ	67	191	57	12.3 🛕	9	55.6	4	0.0	
N38 Total	859	127	698	12.2 🛕	123	53.7	83	81.9	
RAJ	220	115	183	8.2	24	54.2	14	100.0	
RDD	201	114	169	15.4	32	59.4	24	100.0	
RDE	248	141	194	16.0	39	64.1	29	96.6	
RQ8	190	142	152	8.6 🛕	28	32.1	16	12.5	
N39 Total	2,291	119 •	1,895	18.0	344	60.8	234	76.9	
RJF	132	213	103	32.0	33	75.8	23	65.2	
RK5	221	130	166	12.7 🛕	32	50.0 🛕	24	91.7	
RNQ	206	141	180	18.3	33	57.6	17	0.0	
RNS	188	132	161	16.8	31	58.1	20	60.0	
RTG	304	118	252	19.8	51	56.9	43	93.0	
RWD	356	102	302	17.9	38	60.5	25	68.0	
RWE	479	103	396	15.9	59	62.7	25	96.0	
RX1	403	121	333	17.7	66	62.1	57	87.7	
England Total	31,395	110	25,934	15.3	5,455	51.7 🛕	3,452	52.7	
Liigianu lotal	31,393	110	23,334	13.5	5,455	51./	3,432	34.7	

Cod	% small cell receiving nemotherapy	Number of patients small cell lung cancer	% pre- treatment NSCLC histology NOS	Number of pre-treatment NSCLC	% histologically confirmed NSCLC having surgery	Number of histologically confirmed NSCLC	B or IV having	% PS0-1 III NSCLC chemot	Number of PS0- 1 NSCLC Stage IIIB or IV
N34 Tota	76.2	101	19.7	574	22.5	612	3 🛕	51.	199
RN	76.9	13	8.8	91	23.1	91		81.	27
RP/	90.0	10	15.9	82	17.2	87		40.0	15
RV ¹	73.2	56	22.4	263	19.8	283		46.0	126
RW	77.3	22	23.9	138	30.5	151		51.0	31
	77.5		25.5	.50	50.5	.5.	_		5.
N35 Tota	75.9	112	15.6	735	26.0	739	2	57.3	222
RJI	73.1	26	10.1	99	26.3	99	7	66.	30
RJ	70.0	20	14.0	207	22.9	210		64.	50
RL	78.9	19	18.6	145	26.2	145		62.	58
RNA	75.0	12	8.7	104	33.3	105		0.0	1
RWP3	100.0	7	22.6	31	16.1	31		45.	11
RXV	75.0	28	22.1	149	26.8	149	2	47	72
N36 Tota	69.3	348	28.4	1,481	18.9	1,551	1	62.	520
RE	52.9	17	44.7	76	20.2	89	2 🔺	46	26
RLI	71.9	32	39.4	155	15.1	159	5	79.	39
RN	44.2	43	27.5	160	21.3	164	8	55.8	43
RR	77.8	27	25.3	95	21.8	124	6	60.	33
RTI	71.4	42	17.2	169	21.8	170	6	79.	49
RT	63.6	33	28.1	199	14.0	215	1	58.	105
RT	76.5	51	13.2	228	21.1	228	5	68.	54
RVV	84.2	38	19.3	187	17.1	187	1	61.	72
RX	72.3	65	50.5	212	19.5	215	6	55.0	99
N37 Tota	64.7	153	12.8	903	16.5	962		63.	305
RC	33.3	6	9.4	53	11.3	53		75.0	16
RC	68.8	16	21.7	92	27.2	92		66.	39
RGI	70.8	24	20.0	110	15.3	111		59.	32
RG	72.2	18	7.2	111	12.1	124		53.8	52
RGO	62.5	24	17.3	133	11.0	136		71.	45
RG	80.0	10	13.2	68	11.8	68		61.	18
RG	61.5	13	0.9	108	13.3	135		55.	36
RM	58.8	34	11.6	199	24.0	200		69.	59
RQC	62.5	8	17.2	29	16.3	43	5 🛕	37.	8
NOO T	C1.4 A	02	40.3	F22	45.0	F26	4		240
N38 Tota	64.1	92	19.3	523	15.9	536		57.	210
RA	60.9	23	18.8	117	11.7	128		59.	59
RDI RD	61.1	18	12.5 21.2	128 156	20.0	130		59.	49
	77.1 • 43.8 •	35 16	24.6	122	19.9 10.7	156 122		66. ³	60 42
RQ	43.8	10	24.0	122	10.7	122	1 🔺	36.	42
N39 Tota	64.3	244	21.0	1,183	23.9	1,366	2 🛕	47	460
RJ	61.5	13	9.1	55	41.6	77		89.	19
RK	66.7	45	17.8	129	16.0	131		47.	55
RNO	30.8	13	80.2	106	29.7	111		39.0	41
RN	63.2	19	14.4	90	21.9	96		35.	34
RTO	68.2	22	18.4	163	26.9	186		55.	49
RWI	61.0	41	15.7	191	20.3	232		48.0	72
RW	63.5	52	15.7	207	25.5	247		48.0	100
RX	76.9	39	13.2	242	20.7	285		40.0	90
IVA	70.5	33	13.6	272	20.7	203	_	40.1	30

	cont	

Process, nursing, imaging and clinical measures England and Wales (2011 all) part II

Code	Actual number	% of expected	Number of NSCLC	% of NSCLC having Surgery	NSCLC Stage IA, IB, IIA or IIB	% of NSCLC Stage IA, IB, IIA or IIB having surgery	PS0-1 NSCLC Stage IA, IB, IIA or IIB	% PS0-1 NSCLC Stage IA, IB, IIA or IIB having FEV1 absolute and % predicted	
NWW Total	494	104	416	9.9	110	30.0	59	76.3	
7A1A1	188	103	160	11.9	45	35.6	25	96.0	
7A1A4	195	128	161	8.1	44	27.3	23	43.5	
7A1AU	111	78	95	9.5	21	23.8	11	100.0	
SWCN Total	1,574	103	1,299	11.3	280	33.6	157	61.1	
7A2AG	46	77	40	7.5	8	37.5	4	100.0	
7A2AG 7A2AJ	37	116	32	9.4	5	40.0	2	100.0	
7A2AL	125	158	111	9.9	19	47.4	14	92.9	
7A2BL	91	140	73	12.3	12	50.0	8	0.0	
7A3B7	104	107	88	12.5	13	38.5	10	0.0	
7A3C4	95	77	72	6.9	8	50.0	4	100.0	
7A3C7	102	87	86	9.3	17	29.4	10	90.0	
7A3CJ	86	108	69	10.1	10	50.0	7	0.0	
7A4BV	3	2	3	66.7	0	0.0	0	0.0	
7A4C1	255	138	212	12.3	51	19.6	24	83.3	
7A5B1	133	102	114	15.8	36	38.9	22	100.0	
7A5B3	111	90	93	14.0	23	34.8	15	80.0	
7A6AM	114	104	97	8.2	25	24.0	10	100.0	
7A6AR	272	139	209	11.0	53	32.1	27	0.0	
Wales Total	2,068	104	1,715	11.0	390	32.6	216	65.3	
LUCADA Total	33,463	110	27,649	15.0	5,845	50.4	3,668	53.4	
LOCADA IOIGI	33,403	110	27,043	15.0	3,043	30.4	3,000	33.4	
Range Network	(
Min		80.1		8.5		30.0		16.0	
LQ		104.3		13.0		45.9		30.7	
Median		108.7		14.8		52.7		57.9	
UQ		117.9		17.2		59.3		73.2	
Max		128.8		20.8		69.8		90.0	
Range Trust/He	alth Roard								
Min	and bound	44.3		0.0		0.0		0.0	
LQ		101.7		11.6		38.8		6.1	
Median		110.4		14.5		51.0		61.5	
UQ		134.3		17.2		59.4		89.1	
Max Counts aggregation		1860.0		100.0		100.0		100.0	

Number of PS0- 1 NSCLC Stage IIIB or IV	% PS0-1 Stage IIIB or IV NSCLC having chemotherapy	Number of histologically confirmed NSCLC	% histologically confirmed NSCLC having surgery	Number of pre-treatment NSCLC	% pre- treatment NSCLC histology NOS	Number of patients small cell lung cancer	% small cell receiving chemotherapy	Cod
111	63.1	275	14.5	272	9.2	57	75.4	NWW Total
40	57.5	105	18.1	105	16.2	20	75.0	7A1A1
50	74.0	111	10.8	110	3.6	26	80.8	7A1A4
21	47.6	59	15.3	57	7.0	11	63.6	7A1AU
	·			-	-			_
319	51.1	892	16.5	884	24.4	200	62.5	SWCN Total
6	66.7	26	11.5	26	15.4	4	25.0	7A2AG
4	75.0	25	12.0	25	24.0	4	75.0	7A2AJ
23	78.3	89	12.4	89	13.5	10	80.0	7A2AL
25	36.0	47	19.1	47	27.7	15	53.3	7A2BL
21	47.6	54	20.4	53	30.2	12	50.0	7A3B7
29	62.1	50	10.0	50	26.0	17	52.9	7A3C4
23	43.5	57	14.0	56	23.2	13	53.8	7A3C7
28	50.0	52	13.5	52	17.3	14	85.7	7A3CJ
2	50.0	2	100.0	2	0.0	0	0.0	7A4BV
62	45.2	141	18.4	139	28.8	28	78.6	7A4C1
25	32.0	86	20.9	86	54.7	17	52.9	7A5B1
24	70.8	61	21.3	60	16.7	12	91.7	7A5B3
10	40.0	61	13.1	61	18.0	14	42.9	7A6AM
37	51.4	141	16.3	138	15.9	40	57.5	7A6AR
430	54.2	1,167	16.0	1,156	20.8	257	65.4	Wales Total
6,698	55.2	20,081	20.1	19,155	19.2	3,749	67.9	LUCADA Total
0,030	33.2	20,001	2011	13,133	13.2	3,743	07.5	200/15/11010
	35.8		10.7		6.1		55.9	
	51.1		16.5		14.2		64.2	
	57.2		19.1		18.6		67.7	
	61.7		22.7		22.3		70.4	
	69.0		26.5		30.0		77.2	
	0.0		0.0		0.0		0.0	
	44.6		15.1		11.8		57.0	
	55.2		19.7		16.2		68.3	
	66.0		23.0		23.6		76.5	
	100.0		100.0		80.2		100.0	

Number of cases with date first seen in year specified Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2010* Number of NSCLC cases Complete when Surgery Procedure Date is present (denominator = NSCLC cases) Number of NSCLC cases with TNM Stage IA, IB, IIA or IIB	<50% <50% <14%	50- 75% 50- 75%	≥75%
of the National Lung Cancer Audit 2010* Number of NSCLC cases Complete when Surgery Procedure Date is present (denominator = NSCLC cases)	<50%	75% 50-	≥75% ≥75% ≥14%
Complete when Surgery Procedure Date is present (denominator = NSCLC cases)			
cases)	<14%		\1/10/
Number of NSCLC cases with TNM Stage IA, IB, IIA or IIB			≥14%
Complete when Surgery Procedure Date is present (denominator = NSCLC cases with TNM Stage IA, IB, IIA or IIB)	<52%		≥52%
Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB			
Complete when both FEV1 Percentage and FEV1 Absolute Amount are present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB)			
Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV			
Complete when Chemotherapy Start Date is present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV)	<55%		≥55%
Number of histologically-confirmed NSCLC cases			
Complete when Surgery Procedure Date is present (denominator = histologically-confirmed NSCLC cases)			
Number of pre-treatment NSCLC cases			
Percentage of pre-treatment NSCLC cases with Histology NOS (M8046/3) (denominator = pre-treatment NSCLC cases)			
Number of SCLC cases			
Complete when Chemotherapy Start Date is present (denominator = SCLC cases)	<65%		≥65%
	cases with TNM Stage IA, IB, IIA or IIB) Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB Complete when both FEV1 Percentage and FEV1 Absolute Amount are present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB) Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV Complete when Chemotherapy Start Date is present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV) Number of histologically-confirmed NSCLC cases Complete when Surgery Procedure Date is present (denominator = histologically-confirmed NSCLC cases) Number of pre-treatment NSCLC cases Percentage of pre-treatment NSCLC cases with Histology NOS (M8046/3) (denominator = pre-treatment NSCLC cases) Number of SCLC cases Complete when Chemotherapy Start Date is present (denominator = SCLC	cases with TNM Stage IA, IB, IIA or IIB) Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB Complete when both FEV1 Percentage and FEV1 Absolute Amount are present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB) Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV Complete when Chemotherapy Start Date is present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV) Number of histologically-confirmed NSCLC cases Complete when Surgery Procedure Date is present (denominator = histologically-confirmed NSCLC cases) Number of pre-treatment NSCLC cases Percentage of pre-treatment NSCLC cases with Histology NOS (M8046/3) (denominator = pre-treatment NSCLC cases) Number of SCLC cases Complete when Chemotherapy Start Date is present (denominator = SCLC <65%	cases with TNM Stage IÁ, IB, IIA or IIB) Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB Complete when both FEV1 Percentage and FEV1 Absolute Amount are present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB) Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV Complete when Chemotherapy Start Date is present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV) Number of histologically-confirmed NSCLC cases Complete when Surgery Procedure Date is present (denominator = histologically-confirmed NSCLC cases) Number of pre-treatment NSCLC cases Percentage of pre-treatment NSCLC cases with Histology NOS (M8046/3) (denominator = pre-treatment NSCLC cases) Number of SCLC cases Complete when Chemotherapy Start Date is present (denominator = SCLC <65%

Health board	Actual number (Total)	% of expected	Discussed at MDT (%)	Histo- logical diagnosis (%)	Patient seen by nurse specialist (%)	% having active treatment	% of patients receiving CT before bronchos- copy	% receiving surgery all cases	% receiv- ing radio- therapy	Num- ber of histologi- cally con- firmed NSCLC	% histo- logically con- firmed NSCLC having Surgery	Number of patients small cell lung cancer	% smal cel receiving chemo- therapy
SCAN	1,233	93	97.7	66.1	80.4	56.3	96.6	10.4	35.5	622	19.6	150	60.7
Borders	89	93	98.9	74.2	93.3	62.9	95.8	14.6	39.3	49	26.5	15	53.3
D and G	104	71	93.3	79.8	81.7	65.4	95.5	11.5	29.8	70	17.1	11	81.8
Fife	321	99	99.7	62.6	79.8	50.2	96.0	8.4	27.1	133	19.5	48	60.4
Lothian	719	95	97.4	64.7	78.9	56.9	97.6	10.6	39.6	370	19.2	76	59.2
WoSCAN	2,465	92	94.6	73.2	82.1	58.7	89.2	11.2	35.6	1,349	19.1	374	69.3
Ayrshire and Arran	338	99	98.5	73.7	81.1	53.8	91.0	8.9	35.5	187	13.9	55	56.4
Clyde	373	95	91.7	76.1	81.5	58.7	78.5	10.5	38.6	205	18.5	64	53.1
Forth Valley	193	77	100.0	77.2	92.7	65.3	95.5	11.9	39.9	118	18.6	25	80.0
Lanarkshire ³	517	97	98.1	78.1	78.3	58.6	84.6	15.1	23.2	299	25.4	90	68.9
North Glasgow	690	97	92.3	69.1	80.6	60.4	96.6	10.7	41.3	362	19.3	85	77.6
South Glasgow	354	79	90.1	68.1	86.4	56.5	91.5	8.8	37.0	178	14.0	55	83.6
NoSCAN	957	89	94.0	75.8	80.0	66.8	91.3	9.8	46.8	560	15.9	130	70.8
Grampian	361	88	87.3	79.4	67.2	70.1	92.5	11.4	52.9	227	18.1	65	69.2
Orkney	0	0	07.5	75.4	07.2	70.1	32.3	11.4	32.3	221	10.1	05	05.2
Shetland	17	340											
Highland	191	90	97.7	83.3	82.4	68.5	87.7	9.7	39.8	143	14.0	23	82.6
Argyll and Clyde (H)	12	35	37.7	05.5	02.4	00.5	07.7	5.7	33.0	145	14.0	23	02.0
Western Isles	13	108											
Tayside	363	91	98.9	67.5	92.0	62.3	92.0	8.3	44.6	190	14.7	42	66.7
=	4.655	04.7	05.3	74.0	04.0	F0.7	04.4	40.7	27.0	2 524	40.5	CE4	67.6
Total	4,655	91.7	95.3	71.8	81.2	59.7	91.1	10.7	37.9	2,531	18.5	654	67.6
Range Health	Board												
Min		0	87	62.6	67.2	50.2	78.5	8.3	23.2		13.9		53.1
LQ		79	92	68.1	79.8	56.9	91.0	8.9	35.5		14.7		59.2
Median		93	98	74.2	81.5	60.4	92.5	10.6	39.3		18.5		68.9
UQ		97	99	78.1	86.4	65.3	95.8	11.5	39.9		19.3		80.0
Max		340	100	83.3	93.3	70.1	97.6	15.1	52.9		26.5		83.6

Code	Actual number	% of expected	Discussed at MDT (%)	Histological diagnosis (%)	Patient seen by nurse Specialist (%)	Nurse specialist present at diagnosis (%)	% Having active treatment	% of patients receiving CT before bronchoscopy	% receiving surgery all cases	% receiving radiotherapy
2011 Total	41	114	100.0	75.6	n/a	65.9	56.1	94.7	7.3	19.5

Indicator	Definition
Actual number	Number of cases with date first seen in year specified
% of expected	Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2009*
Discussed at MDT (%)	Complete when MDT Discussion Indicator = Y (denominator = all cases)
Histological diagnosis (%)	Complete when Histology is present or Basis of diagnosis equals 5, 6 or 7 (denominator = all cases)
Patient seen by nurse Specialist (%)	Complete when Patient Assessed by a Lung Cancer Nurse Specialist = Y (denominator = all cases)
Nurse specialist present at diagnosis (%)	Complete when Lung Cancer Nurse Specialist Present When Received Diagnosis = Y (denominator = all cases)
% Having active treatment	Complete when date present for Brachytherapy, Anti-cancer drug regimen, Surgery or Teletherapy (denominator = all cases)
% of patients receiving CT before bronchoscopy	Complete when CT Scan Date before or equal to Bronchoscopy Date (denominator = cases with Bronchoscopy Date present)
% receiving surgery all cases	Complete when Surgery Procedure Date is present (denominator = all cases)
% receiving radiotherapy	Complete when either Teletherapy Treatment Course Start Date or Brachytherapy Therapy Treatment Course Start Date is present (denominator = all cases)
* http://www.ic.nhs.uk/webfiles/Services/NCASP/audits%20	Dand%20reports/NHSIC_National_Lung_Cancer_Audit_2010_V1.0.pdf

Table 2c Process, nursing, in	Process, nursing, imaging and clinical measures Guernsey (2011 all) part II												
Code	Actual number	% of expected	Number of NSCLC	% of NSCLC having Surgery	NSCLC Stage IA, IB, IIA or IIB		PS0-1 NSCLC Stage IA, IB, IIA or IIB	,					
2011 Total	41	114	33	9.1	6	50.0	5	100.0					

Table 2c (continued) Process, nursing, imaging and clinical measures Guernsey (2011 all) part II											
Code	Number of PS0-1 NSCLC Stage IIIB or IV	% PS0-1 Stage IIIB or IV NSCLC having chemotherapy	Number of histologically confirmed NSCLC	NSCLC having		% pre-treatment NSCLC histology NOS		% small cell receiving chemotherapy			
2011 Total	9	55.6	23	13.0	23	13.0	7	100.0			

Indicator	Definition
Actual number	Number of cases with date first seen in year specified
% of expected	Completeness of data in cohort based on Expected Annual Cases in Table 1a of the National Lung Cancer Audit 2009
Number of NSCLC	Number of NSCLC cases
% of NSCLC having Surgery	Complete when Surgery Procedure Date is present (denominator = NSCLC cases)
NSCLC Stage IA, IB, IIA or IIB	Number of NSCLC cases with TNM Stage IA, IB, IIA or IIB
% of NSCLC Stage IA, IB, IIA or IIB having surgery	Complete when Surgery Procedure Date is present (denominator = NSCLC cases with TNM Stage IA, IB, IIA or IIB)
PS0-1 NSCLC Stage IA, IB, IIA or IIB	Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB
% PS0-1 Stage IA, IB, IIA or IIB NSCLC having FEV1 absolute and % predicted	Complete when both FEV1 Percentage and FEV1 Absolute Amount are present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IA, IB, IIA or IIB)
Number of PS0-1 NSCLC Stage IIIB or IV	Number of NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV
% PS0-1 Stage IIIB or IV NSCLC having chemotherapy	Complete when Chemotherapy Start Date is present (denominator = NSCLC cases with Performance Status 0 or 1 and TNM Stage IIIB or IV)
Number of histologically confirmed NSCLC	Number of histologically confirmed NSCLC cases
% histologically confirmed NSCLC having surgery	Complete when Surgery Procedure Date is present (denominator = histologically confirmed NSCLC cases)
Number of pre-treatment NSCLC	Number of pre-treatment NSCLC cases
% pre-treatment NSCLC histology NOS	Percentage of pre-treatment NSCLC cases with histology NOS (M8046/3) (denominator = pre-treatment NSCLC cases)
Number of patients small cell lung cancer	Number of SCLC cases
% small cell receiving chemotherapy	Complete when Chemotherapy Start Date is present (denominator = SCLC cases)

Appendices

Appendix 1: Trust and Health Board identification for England and Wales

NO4	Lancachire and South Cumbria	NO	Mount Vornon Cancor Notwork
N01 RTX	Lancashire and South Cumbria University Hospitals of Morecambe Bay NHS Foundation Trust	N20 RC9	Mount Vernon Cancer Network Luton and Dunstable Hospital NHS Foundation Trust
RXL	Blackpool Teaching Hospitals NHS Foundation Trust	RWG	West Hertfordshire Hospitals NHS Trust
RXN	Lancashire Teaching Hospitals NHS Foundation Trust	RWH	East and North Hertfordshire NHS Trust
RXR	East Lancashire Hospitals NHS Trust	170011	Lust and North Heritorasine 1415 Trust
IVAIN	Last Lancasinie Hospitais Wils Hust	N21	West London Cancer Network
N02	Greater Manchester and Cheshire	RAS	The Hillingdon Hospitals NHS Foundation Trust
RBT	Mid Cheshire Hospitals NHS Foundation Trust	RC3	Ealing Hospital NHS Trust
RBV	The Christie NHS Foundation Trust	RFW	West Middlesex University Hospital NHS Trust
RJN	East Cheshire NHS Trust	RQM	Chelsea and Westminster Hospital NHS Foundation Trust
RM2	University Hospital of South Manchester NHS Foundation Trust	RT3	Royal Brompton and Harefield NHS Foundation Trust
RM3	Salford Royal NHS Foundation Trust	RV8	North West London Hospitals NHS Trust
RM4	Trafford Healthcare NHS Trust	RYJ	Imperial College Healthcare NHS Trust
RMC	Bolton NHS Foundation Trust		m.pon.a. comego nocamento maco
RMP	Tameside Hospital NHS Foundation Trust	N22	North London
RRF	Wrightington, Wigan and Leigh NHS Foundation Trust	RAL	Royal Free London NHS foundation Trust
RW3	Central Manchester University Hospitals NHS Foundation Trust	RAP	North Middlesex University Hospital NHS Trust
RW6	Pennine Acute Hospitals NHS Trust	RKE	The Whittington Hospital NHS Trust
RWJ	Stockport NHS Foundation Trust	RQW	The Princess Alexandra Hospital NHS Trust
		RRV	University College London Hospitals NHS Foundation Trust
N03	Merseyside and Cheshire	RVL	Barnet and Chase Farm Hospitals NHS Trust
LLCU*	Liverpool Lung Cancer Unit		
RBL	Wirral University Teaching Hospital NHS Foundation Trust	N23	North East London Cancer Network
RBN	St Helens and Knowsley Hospitals NHS Trust	RF4	Barking, Havering and Redbridge University Hospitals NHS Trust
REM	Aintree University Hospitals NHS Foundation Trust	RGC	Whipps Cross University Hospital NHS Trust
REN	The Clatterbridge Cancer Centre NHS Foundation Trust	RNH	Newham University Hospital NHS Trust
RJR	Countess of Chester Hospital NHS Foundation Trust	RNJ	Barts and the London NHS Trust
RVY	Southport and Ormskirk Hospital NHS Trust	RQX	Homerton University Hospital NHS Foundation Trust
RWW	Warrington and Halton Hospitals NHS Foundation Trust		
		N24	South East London
N06	Yorkshire Cancer Network	RJ1	Guy's and St Thomas' NHS Foundation Trust
RAE	Bradford Teaching Hospitals NHS Foundation Trust	RJ2	Lewisham Healthcare NHS Trust
RCB	York Teaching Hospital NHS Foundation Trust	RJZ	King's College Hospital NHS Foundation Trust
RCD	Harrogate and District NHS Foundation Trust	RYQ	South London Healthcare NHS Trust
RCF	Airedale NHS Foundation Trust		
RR8	Leeds Teaching Hospitals NHS Trust	N25	South West London
RWY	Calderdale and Huddersfield NHS Foundation Trust	RAX	Kingston Hospital NHS Trust
RXF	Mid Yorkshire Hospitals NHS Trust	RJ6	Croydon Health Services NHS Trust
		RJ7	St George's Healthcare NHS Trust
N07	Humber and Yorkshire Coast Cancer Network	RPY	The Royal Marsden NHS Foundation Trust
RCC	Scarborough and North East Yorkshire Health care NHS Trust	RVR	Epsom and St Helier University Hospitals NHS Trust
RJL	Northern Lincolnshire and Goole Hospitals NHS Foundation Trust		
RWA	Hull and East Yorkshire Hospitals NHS Trust	N26	Peninsula
		RA9	South Devon Healthcare NHS Foundation Trust
N08	at at the contract of the cont		
RFF	North Trent	RBZ	Northern Devon Healthcare NHS Trust
NFF	Barnsley Hospital NHS Foundation Trust	RBZ REF	Northern Devon Healthcare NHS Trust Royal Cornwall Hospitals NHS Trust
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N29	3 Counties Cancer Network
RLQ	Wye Valley NHS Trust
RTE	Gloucestershire Hospitals NHS Foundation Trust
RWP50	Worcestershire Acute Hospitals NHS Trust
N30	Thames Valley
RD7	Heatherwood and Wexham Park Hospitals NHS Foundation Trust
RD8	Milton Keynes Hospital NHS Foundation Trust
RHW	Royal Berkshire NHS Foundation Trust
RN3	Great Western Hospitals NHS Foundation Trust
RTH	Oxford University Hospitals NHS Trust
RXQ	Buckinghamshire Healthcare NHS Trust
NO4	Central South Coast
N31	
RHM	University Hospital Southampton NHS Trust
RHU	Portsmouth Hospitals NHS Trust
RN1	Winchester and Eastleigh Healthcare NHS Trust
RN5	Hampshire Hospitals NHS Foundation Trust
RNZ	Salisbury NHS Foundation Trust
RYR16	Western Sussex Hospitals NHS Trust
RR2/5QT	Isle of Wight NHS PCT
N32	Surrey, West Sussex and Hampshire
RA2	Royal Surrey County Hospital NHS Foundation Trust
RDU	Frimley Park Hospital NHS Foundation Trust
RTK	Ashford and St Peter's Hospitals NHS Foundation Trust
RTP	Surrey and Sussex Healthcare NHS Trust
NOO	Curren
N33	Sussex
RXH RXC	Brighton and Sussex University Hospitals NHS Trust
RYR18	East Sussex Healthcare NHS Trust Western Sussex Hospitals NHS Trust
N34	Kent and Medway
RN7	Dartford and Gravesham NHS Trust
RPA	Medway NHS Foundation Trust
RVV	East Kent Hospitals University NHS Foundation Trust
RWF	Maidstone and Tunbridge Wells NHS Trust
N35	Greater Midlands
RJD	Mid Staffordshire NHS Foundation Trust
RJE	University Hospital of North Staffordshire NHS Trust
RL4	The Royal Wolverhampton Hospitals NHS Trust
RNA	The Dudley Group NHS Foundation Trust
RWP31	Worcestershire Acute Hospitals NHS Trust
RXW	Shrewsbury and Telford Hospital NHS Trust
N36	North of England Cancer Network
RE9	South Tyneside NHS Foundation Trust
RLN	City Hospitals Sunderland NHS Foundation Trust
RNL	North Cumbria University Hospitals NHS Trust
RR7	Gateshead Health NHS Foundation Trust
RTD	The Newcastle Upon Tyne Hospitals NHS Foundation Trust
RTF	Northumbria Healthcare NHS Foundation Trust
RTR	South Tees Hospitals NHS Foundation Trust
RVW	North Tees and Hartlepool NHS Foundation Trust
RXP	County Durham and Darlington NHS Foundation Trust
N37	Anglia Cancer Network
RC1	Bedford Hospital NHS Trust
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RCX	The Queen Elizabeth Hospital King's Lynn NHS Foundation Trust
RGM	Papworth Hospital NHS Foundation Trust
RGN	Peterborough and Stamford Hospitals NHS Foundation Trust
RGP	James Paget University Hospitals NHS Foundation Trust
RGQ	Ipswich Hospital NHS Trust
RGR	West Suffolk Hospitals NHS Trust
RGT	Cambridge University Hospitals NHS Foundation Trust
RM1	Norfolk and Norwich University Hospitals NHS Foundation Trust
RQQ	Hinchingbrooke Health Care NHS Trust
N38	Essex Cancer Network
RAJ	Southend University Hospital NHS Foundation Trust

N38	Essex Cancer Network
RAJ	Southend University Hospital NHS Foundation Trust
RDD	Basildon and Thurrock University Hospitals NHS Foundation Trust
RDE	Colchester Hospital University NHS Foundation Trust
RQ8	Mid Essex Hospital Services NHS Trust

N39	East Midland Cancer Network
RK5	Sherwood Forest Hospitals NHS Foundation Trust
RWD	United Lincolnshire Hospitals NHS Trust
RX1	Nottingham University Hospitals NHS Trust
RJF	Burton Hospitals NHS Foundation Trust
RTG	Derby Hospitals NHS Foundation Trust
RNQ	Kettering General Hospital NHS Foundation Trust
RNS	Northampton General Hospital NHS Trust
RWE	University Hospitals of Leicester NHS Trust

	Welsh Cancer Network
7A2AJ	Bronglais General Hospital
7A1A1	Ysbyty Glan Clwyd
7A4C1	University Hospital Llandough
7A3C7	Morriston Hospital
7A3CJ	Neath Port Talbot Hospital
7A6AM	Nevill Hall Hospital
7A5B3	Prince Charles Hospital
7A2AL	Prince Philip Hospital Site
7A3B7	Princess Of Wales Hospital
7A5B1	The Royal Glamorgan Hospital
7A6AR	Royal Gwent Hospital
7A3C4	Singleton Hospital
7A4BV	University Hospital Of Wales
7A2AG	West Wales General Hospital
7A2BL	Withybush General Hospital
7A1AU	Ysbyty Gwynedd
7A1A4	Ysbyty Maelor Wrexham

^{*} LLCU is a partnership between Liverpool Heart and Chest NHS Foundation Trust and Liverpool and Broad Green University Hospital NHS Trust for management of lung cancer.

Appendix 2: Local Action Plan

Recommendation	Achieved Y/N/P/NK	Planned Action	Suggested Actions	Suggested Responsibility	Date plan actioned	Date issue resolved
Data Completeness and Qua	ality					
The organisation participates in this national audit			Contact local Cancer Network for audit Advice. Contact CASU Lung Cancer Audit Project Manager (roz.stanley@ ic.nhs.uk) Visit http://www.ic.nhs.uk/ lung for information. Obtain read and disseminate the Lung Cancer Audit Annual Report	Cancer Manager / Governance Lead		
Data on all patients diagnosed with either lung cancer or mesothelioma are submitted to he audit			Use MDT meetings to capture all cases discussed, Try to record cases in real time or near real time. Liaise with pathology departments to correlate cases. Work with IT department to set up CSV file upload facility if information is collected on a third party system or identify resources to input data directly	MDT Chair		
All relevant data fields are completed for each patient			Use proforma for data collection at MDT. Identify key person to quality assure data prior to submission. Ensure data inputters understand clinical implications of data. Map and allocate responsibility along patient pathway. Agree protocols and submission routes for patients that are treated across different organisations	Data Co-ordinator / Cancer Manager / Network Manager		
Key data fields including tage and performance tatus should be completed n at least 85 per cent and n at least 95 per cent with espect to the MDT field			Refer to the documentation on the National Lung Cancer Audit Website and ensure that key fields are completed for all relevant cases. MDT chair assists co-ordinator by ensuring that stage, performance status and other key fields are discussed and recorded for each patient.	MDT Chair, Data Co-ordinator / Cancer Manager/ Network Manager		
FEV1 absolute and FEV1% oredicted for stage I and II NSCLC patients with PS 0 or I should be recorded in at east 85 per cent			Record data in real time at MDT where possible; foster links with physiology departments to obtain data on relevant patients; quality assure data prior to submission.			
Process of Care						
Over 95 per cent of patients submitted to the audit are discussed at an MDT			Liaise with cancer waiting times team to identify lung cancer referrals. Liaise with radiology department to identify all imaging suspicious of lung cancer or mesothelioma. Liaise with pathology department to identify cases	MDT chair, Lung cancer clinical lead		
The Histological Confirmation Rate should be at least 75 per cent To be reviewed in light of case mix adjusted odds ratio			This result should be interpreted in conjunction with the case-mix adjusted odds ratio, which might better reflect whether the organisation is an outlier. Ensure all histological diagnoses are submitted to the audit, including those confirmed only by resection. Liaise with pathology department to identify cases. Review clinical diagnoses and diagnostics protocols if HCR is below optimum	MDT chair, Lung cancer clinical lead		
The proportion of patients receiving CT prior to pronchoscopy should exceed 95 per cent			Ensure that all CT / bronchoscopy data is submitted to the audit. Review patient pathway and individual clinician practices.	MDT chair, Lung cancer clinical lead, Radiologists		

Recommendation	Achieved Y/N/P/NK	Planned Action	Suggested Actions	Suggested Responsibility	Date plan actioned	Date issue resolves
Process of Care (continued)						
Over 80 per cent of patients are seen by a lung cancer specialist nurse			Review the specialist nurse service, ensuring all nursing posts are staffed and that clear referral pathways exist	MDT chair, Lung cancer clinical lead, specialist nurse		
Over 80 per cent of patients have a lung cancer specialist nurse present at the time of diagnosis			Review the specialist nurse service, allocate extra nursing support alongside lung cancer clinics	MDT chair, Lung cancer clinical lead, specialist nurse		
Co-morbidity that prevents a patient receiving treatment of choice should be recorded for all relevant cases			Ensure that all relevant co-morbidity data is discussed at MDT, and ensure that cases where co-morbidity prevents treatment of choice are submitted to the audit. It is important that the collected data adheres to the definitions in the LUCADA data manual.	MDT chair, Lung cancer clinical lead, specialist nurse		
PET Scan dates should be recorded for all relevant cases			Ensure that all PET data is captured at MDT submitted to the audit	MDT chair, Lung cancer clinical lead, specialist nurse		
NSCLC NOS rate of more than 20 per cent should be reviewed to ensure that best practice histological diagnostic techniques including immunohistochemistry are being followed, in order that patients receive appropriate chemotherapy regimens.			Ensure that pathologist is an integral part of the lung MDT and understands the importance of tumour subtyping. Ensure that a locally-approved panel of immunohistochemical markers are being used for subtyping and that locally-approved appropriate mutationtesting is being applied.	MDT chair, pathologist, lung cancer clinical lead, specialist nurse, MDT co-ordinator		
Clinical Outcomes						
Surgical resection rates below 14 per cent for all patients excluding small cell lung cancer or mesothelioma must be reviewed To be reviewed in light of case mix adjusted odds ratio			This result should be interpreted in conjunction with the case-mix adjusted odds ratio, which might better reflect whether the organisation is an outlier. Ensure that all surgical resections are submitted to the audit. If data is complete then review treatment policies for early stage lung cancer in patients with good performance status. Ensure that thoracic surgeon attends MDT meetings. Consider offering a second opinion in borderline cases.	MDT chair, Lung cancer clinical lead, thoracic surgeons		
Surgical resection rates for patients for all patients excluding small cell lung cancer or mesothelioma with stage I or II disease below 52 per cent must be reviewed			This result should be interpreted in conjunction with the case-mix adjusted odds ratio, which might better reflect whether the organisation is an outlier. Ensure that all surgical resections are submitted to the audit. If data is complete then review treatment policies for early stage lung cancer in patients with good performance status. Ensure that thoracic surgeon attends MDT meetings. Consider offering a second opinion in borderline cases.	MDT chair, Lung cancer clinical lead, thoracic surgeons		
Active anti-cancer treatment rates below 60 per cent should be reviewed To be reviewed in light of case mix adjusted odds ratio			This result should be interpreted in conjunction with the case-mix adjusted odds ratio, which might better reflect whether the organisation is an outlier. Ensure that all treatments are submitted to the audit. Review treatment policies for small cell lung cancer patients. Review pathway from diagnosis to treatment to ensure it is as expeditious as possible.	MDT chair, Lung cancer clinical lead. MDT members		

Recommendation	Achieved Y/N/P/NK	Planned Action	Suggested Actions	Suggested Responsibility	Date plan actioned	Date issue resolves		
Clinical Outcomes (continue	Clinical Outcomes (continued)							
Chemotherapy rates for small cell lung cancer below 65 per cent should be reviewed To be reviewed in light of case mix adjusted odds ratio			This result should be interpreted in conjunction with the case-mix adjusted odds ratio, which might better reflect whether the organisation is an outlier. Ensure that all treatments are submitted to the audit. Review treatment policies for small cell lung cancer patients	MDT chair, Lung cancer clinical lead. MDT members				
Chemotherapy rates for patients of PS 0-1 with advanced stage NSCLC IIIB/IV below 55 per cent should be reviewed To be reviewed in light of case mix adjusted odds ratio			This result should be interpreted in conjunction with the case-mix adjusted odds ratio, which might better reflect whether the organisation is an outlier. Ensure that all treatments are submitted to the audit. Review treatment policies for non small cell lung cancer patients with advanced stage	MDT chair, Lung cancer clinical lead. MDT members				
Low median survival, as demonstrated by a case-mix adjusted hazard ratio significantly below the baseline, should be investigated.			Ensure that all relevant data has been submitted to the audit, Identify areas where audit standards have not been met or where CMA demonstrates the trust to be an outlier and review	MDT chair, Lung cancer clinical lead. MDT members				

Appendix 3: Glossary

Adenocarcinoma

A type of cancer arising from glandular tissue

Anti-cancer treatment (active treatment)

A term used to define treatments for lung cancer that have an effect on the tumour itself, not just on symptoms. In lung cancer patients these are most often surgery, chemotherapy, radiotherapy or a combination

Benchmarking

A method of comparing processes and outcomes against standards

Biopsy

Removal and examination of tissue, usually microscopic, to establish a precise (histological) diagnosis

Bronchoscopy

A procedure for examining the airways by inserting an instrument (bronchoscope) into the trachea and lungs, normally via the nose. Enables a bronchial biopsy to be taken

Bronchial biopsy

Removal of a small piece of lung tissue during a bronchoscopy in order to make a histological diagnosis

Cancer Network

A system within the NHS to organise the integrated and care of cancer patients across a geographic region

Cancer Registry/ies

Organisations who systematically collect high level data about all cases of cancer in the UK. Cancer registries are unique in being able to provide historical trend and population-based data to monitor changes in cancer incidence or survival over long periods of time

Case ascertainment

The number of cases of lung cancer actually recorded by an organisation as a proportion of the number expected. Gives assurance that organisations are submitting data on all relevant cases

Case-mix

Refers to the different characteristics of patients seenin different hospitals (for example age, sex, disease stage, social deprivation and general health). Knowledge of differing case-mix enables a more accurate method of comparing quality of care (case-mix adjustment)

Case-mix adjustment

A statistical method of comparing quality of care between organisations that takes into account important and measurable patient characteristics

Chemotherapy

Medicines used in the treatment of cancer that can be given by mouth or by injection

Common denominator (in a non-mathematical context)

Factors that link objects (e.g. hospitals) together

Co-morbidity

Medical conditions or disease processes that are additional to the disease under investigation (in this case lung cancer). In the NLCA this is recorded when a co-morbidity restricts the type of treatment that can be given for lung cancer

The abbreviated term for computed or computerised axial tomography. These are tests that produces detailed images of the body using X-rays images that are enhanced by a computer

Cytological

Refers to a pathological examination of cells outside the architecture of the actual tissue or organ they are taken from (as opposed to histological)

Data completeness

A measure of the standard of data submitted to the audit, both in terms of the numbers of cases submitted as well as the data on each individual case

Diagnosis

Confirming the presence of the disease

Health Board

An organisation providing healthcare services in Scotland and Wales. A health board may manage one or several hospitals within a region

Histological

Refers to a pathological examination of cells within the architecture of a tissue or organ rather than just the cells themselves (as opposed to cytological)

Hospital Trust

An organisation providing secondary healthcare services in England. A hospital trust may be made up of one or several hospitals within a region

Improving Outcomes in Lung Cancer project (ILCOP)

A project sponsored by the Health Foundation and managed by the Royal College of Physicians to look at ways to improve care offered to people diagnosed with lung cancer

Interquartile range

The range of a particular variable excluding the highest quarter and lowest quarter of the values recorded. Can be useful to give a sense of the spread of a set of data without being affected by very high or very low results

Lung Cancer Nurse Specialist

A nurse specialising in care of people diagnosed with lung cancer or mesothelioma

Lobectomy

An operation to remove a whole section (lobe) of lung tissue – see also wedge resection. There are three lobes in the right lung and two lobes in the left lung

Lead Clinician

Healthcare professional in a hospital taking overall responsibility for the services provided for a specific disease area

Lymph nodes

Small, oval-shaped organs of the immune system, whose main job is to fight infection. Distributed widely throughout the body (including the neck, armpit, abdomen and thorax) they are a common place for cancers to spread

MDT

Multi-disciplinary team, a group of healthcare professionals working in a co-ordinated manner for patient care

Mediastinum/Mediastinal

Refers to an area within the center of the thorax (chest) between the two lungs, where the heart, blood vessels and lymph nodes are found

Mediastinotomy/oscopy

An operation that enables visualization and biopsy of the mediastinal lymph nodes. These procedures are often used to determine whether a cancer has spread to the lymph nodes, which affects the stage of the disease

Mesothelioma

Cancer of the lining of the lung caused by exposure to asbestos

Metastasis

Cancer that has spread from the place where it was formed to grow in another part of the body

Network

See 'Cancer Network'

NLCA

National Lung Cancer Audit

Nodule (lung nodule)

A small abnormality on the lung often found on chest X-rays or CT scans. Most lung nodules are non-cancerous (benign). However, some lung nodules may be cancerous - either early-stage lung cancer or metastatic cancer that has spread to the lungs from another site in the body

Non-small cell carcinoma

A group of types of lung cancer sharing certain characteristics, that makes up 85-90 per cent of all lung cancers. Includes squamous carcinoma and adenocarcinoma. See also **small cell carcinoma**

NOS

Not otherwise specified. In the case of **NSCLC** histology, this implies that the histological diagnosis has not been sub-classified to a particular cell type e.g. squamous carcinoma, adenocarcinoma etc

NSCI C

Non-small cell lung cancer

Operability

In the consideration of surgical treatment of a lung cancer, refers to the patients' ability to cope with both the operation and the subsequent reduction of lung volume and function. See also resectability

Performance Status

A systematic method of recording the ability of an individual to undertake the tasks of normal daily life compared with that of a normal person

PET Scan

An abbreviation for positron emission tomography. This is a computerised diagnostic technique that uses radioactive substances to examine structures of the body. Nowadays usually combined with a **CT scan** (PET-CT scan). It produces a three-dimensional image that reflects the metabolic and chemical activity of the body

Radiologist

A doctor specialising in the use of imaging technologies, including radiation, to diagnose and treat disease

Radiotherapy

The treatment of cancer using radiation, which is most often delivered by X-ray beams (external beam radiotherapy) but can be given internally (brachytherapy)

Resectability

In the consideration of surgical treatment of a lung cancer, refers to the ability of the surgeon to remove the tumour taking into account its location and stage. See also **operability**

RCP

Abbreviation for The Royal College of Physicians, the professional body of doctors practicing general medicine and its subspecialties

SCLC

Small cell carcinoma

Secondary care

Care provided by a hospital as opposed to that provided in the community by a general practitioner and allied staff (primary care)

Small cell lung cancer

A type of lung cancer making up around 10-15 per cent of all lung cancers. See also **non-small cell carcinoma**

Squamous Carcinoma

A type of cancer arising from cells which line body cavities

Staging/stage

The anatomical extent of a cancer

Surgical resection

An operation to remove abnormal tissues or organs

Tertiary Centres

Hospitals that specialise in diagnosis and treatment of specific conditions, often handling very complex cases. Other hospitals may refer patients to these centres for specialist treatment

Thoracic surgeon

Specialist surgeon who operates on the chest and lungs

Wedge resection

An operation to remove a section of lung tissue smaller than a lobe - see also lobectomy

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