

Scottish Routes from Diagnosis: The cohort up close



Table of Contents

Acknowledgements	4
Background	
Cohort Characteristics	5
Technical notes & assumptions	5
Results	7
Patient Characteristics	7
Cancer Factors	18
Treatment	25
Discussion on the results from Chapters 1 & 2 can be found : www.macmillan.org.uk/SRFD	27
References	28
Appendix: A: Terms and Abbreviations	29
Appendix: B: Morphology definitions:	32
Appendix C: Limitations	33
Appendix D: Tables of Characteristics Analysis: 2012 & 2007: By Cancer Type	35

Table of Figures

Figure 1.0: Standardised cancer incidence rates by deprivation (age 45 and over): 20129
Figure 1.1: Standardised breast cancer incidence rates by deprivation (age 45 and over): 2012 10
Figure 1.2: Standardised colorectal cancer incidence rates by deprivation (age 45 and over): 201211
Figure 1.3: Standardised lung cancer incidence rates by deprivation (age 45 and over): 201212
Figure 1.4: Standardised prostate cancer incidence rates by deprivation (age 45 and over): 2012 13
Figure 1.5: Standardised cancer incidence rates by urban-rural index (age 45 and over): 2012 14
Figure 1.6: Standardised lung cancer incidence rates by urban-rural index (age 45 and over): 2012.15
Figure 1.7: Standardised cancer incidence rates by cancer network (age 45 and over): 200716
Figure 1.8: Standardised cancer incidence rates by cancer network (age 45 and over): 201216
Figure 1.9: Standardised lung cancer incidence rates by cancer network (age 45 and over): 2012 17
Figure 1.10: Standardised prostate cancer incidence rates by cancer network (age 45 and over): 2012
Figure 2.0: Breast cancer 2012: Method of Detection by outcome group19
Figure 2.1: Colorectal cancer 2012: Method of Detection by outcome group19
Figure 2.2: Lung cancer 2012: Method of Detection by outcome group20
Figure 2.3: Prostate cancer 2012: Method of Detection by outcome group20
Figure 2.4: TNM stage at diagnosis and Outcome group: Breast Cancer 201221
Figure 2.5: Dukes' stage at diagnosis and Outcome group: Colorectal Cancer 201222
Figure 2.6: TNM stage at diagnosis and Outcome group: Lung Cancer 201223
Figure 2.7: Gleason score and Outcome group: Prostate Cancer 201224

Acknowledgements

The analysis presented in this report uses data shared by patients and collected by the NHS as part of their care and support.

Thank you to the Macmillan-ISD Steering Group and to the Scottish Routes from Diagnosis Clinical Advisory Group for clinical and research support and advice in relation to the Scottish Routes from Diagnosis project.

Cheryl Denny Emily Moore Julie Peacock Anna Goulding Eilidh Fletcher Jo Mulligan Helen Storkey Claire LeBlanc Rachel White Kelly Shiell-Davis

ISD Macmillan

Background

Scottish Routes from Diagnosis (SRfD) is an on-going project between the Information Services Division (ISD) of NHS National Services Scotland and Macmillan. It investigates survivorship outcomes and experiences for people diagnosed with cancer who are resident in Scotland. The project focusses on the four most common types of cancer found in Scotland (breast, prostate, colorectal and lung) using national datasets from 2007 and 2012. The project has developed survivorship Outcome Groups (OGs), which capture survivorship experiences for four different groups of people. These groupings allow comparisons both within a particular type of cancer and across different types. Reporting patient factors, pathways, and outcomes using these outcome groups allows for investigation into the very different experiences people can have following a cancer diagnosis. They also allow for examination of similar experiences.

For a full explanation of the Outcome Groups and methodology of SRfD, please refer to www.macmillan.org.uk/SRFD. Limitations of this work are presented in Appendix C.

Cohort Characteristics

The survivorship experiences of people diagnosed with cancer are dependent on a variety of factors, including patient characteristics and the point in its development that cancer is diagnosed. The first step in understanding patient pathways and experiences is to understand more about the people in each of this study's cohorts and in each survivorship outcome group. This chapter reports on:

- Patient characteristics (e.g. age, sex, deprivation quintile)
- Cancer factors (severity of the cancer, for example cancer grade or stage)
- Cancer treatment

It uses the SRfD framework and focusses on cohorts of people diagnosed with the four most common cancers in Scotland in 2007 and 2012. It is important to establish as complete a picture as possible of the characteristics of the SRfD populations and to explore them in depth.

Technical notes & assumptions

This analysis utilises Scotland-wide administrative datasets and has PBPP approval¹. As such, it is limited to the information provided as part of these datasets. Anonymised Scottish Cancer Registry data (SMR06) for all breast, colorectal, lung and prostate cancers diagnosed in Scotland in 2007 and 2012 were linked to secondary care data² (SMR01 – general/acute inpatient and day case data; SMR00 – outpatient attendance data) and mortality data (National Records Scotland (NRS), Vital

¹ Public Benefit and Privacy Panel for Health and Social Care, https://www.informationgovernance.scot.nhs.uk/pbpphsc/

² SMR Datasets, https://www.ndc.scot.nhs.uk/Data-Dictionary/SMR-Datasets/

Events data), at patient and episode level. For the 2012 data, linkage was also made to Community Prescribing (PIS) and Unscheduled Care data (USC).

The definition of the outcome groups (OGs) was made in consultation with a Clinical Advisory Group (CAG) and with the Director of the Scottish Cancer Registry. These definitions meet the twin requirements of (1) being comparable across and within cancer types, and (2) allowing the identification of distinct groups of survivorship experience with sufficiently large numbers to allow meaningful analysis. However, there are limitations associated with these definitions (discussed previously).

Although one of the aims of the project was to assign people living with cancer to outcome groups that are comparable across cancer types, the different aetiologies of these cancers mean there are varying proportions of the different cancer types in each survivorship group. For example, there are relatively small numbers of people from the lung cancer cohorts in OG1 and relatively few of the prostate cancer cohorts in OG4. Therefore, some caution should be applied when interpreting results for these groups.

Classification measures such as the Scottish Index of Multiple Deprivation³ (SIMD) and Urban-Rural Index⁴ (URI) were assigned using each person's postcode of residence at the time of cancer diagnosis. For the 2012 cohorts SIMD2012 and URI2012 were used; for the 2007 cohorts SIMD2009v2 and URI2008 were used. When reporting SIMD, the areas of Scotland are broken down into population-weighted 'quintiles'. Each quintile makes up approximately 20% of the Scottish population and they are referred to in this analysis as SIMD1-SIMD5, where SIMD1 represents the 20% most deprived (population-weighted) areas of Scotland and SIMD5 represents the 20% least deprived areas of Scotland.

Ethnicity was explored as part of this work; however, for the years studied, the majority of cases were classified as either 'white' or 'not known/refused/not disclosed'. As such, the numbers are too small for detailed analysis and this information is presented by cohort only in Appendix D.

Crude incidence rates are presented in this publication per 100,000 population. These provide an indication of the proportion of people per 100,000 population in a particular area who were diagnosed with a particular cohort cancer, in a particular year. These rates were calculated by dividing the total number of cases in a given time period by the total number of persons in the population; they do not include all people living with cancer. However, it may not always be appropriate to compare crude rates for particular areas due to the different age/sex structures of those areas. For example, if an area has a higher proportion of older persons residing there, then the crude cancer rate would be higher than for an area with a younger population.

Age-sex-standardised rates allow for differences in the age/sex structure of populations and allow valid comparisons to be made between geographical areas and through time. They do this by applying the age-specific rates for the area being studied to a theoretical European standard population, usually expressed per 100,000 persons per year. While both crude and standardised rates are presented in Appendix D, only standardised rates are discussed in the main text. The

³ SIMD, https://www2.gov.scot/Topics/Statistics/SIMD

⁴ Urban Rural Classification, https://www2.gov.scot/Topics/Statistics/About/Methodology/UrbanRuralClassification

standardised rates presented are truncated (age 45 and over) European age-sex-standardised rates for colorectal and lung cancer and truncated European age-standardised rates for breast and prostate cancer; as such they differ from national rates published elsewhere.

Due to the large number of statistical tests carried out and the breakdown of data into the many groups presented in this analysis, it is possible that such multiple testing will produce spurious 'significant' results through chance.

The data presented in this report primarily relate to 2012, unless otherwise specified, although all results are available in Appendix D.

In this report a series of terms and abbreviations have been used, for a full list of these please see Appendix A.

For further detail on the methodologies involved in the Routes from Diagnosis project please see www.macmillan.org.uk/SRFD .

Results

Patient Characteristics

- Women diagnosed with breast cancer were, on average, younger (63) than people with the other cancer types studied (70 for colorectal, 70 for prostate cancer, 72 for lung cancer).
- For the 2012 lung, prostate and colorectal cohorts, average age typically
 increased incrementally between OG1 and OG4. However, the breast cancer
 cohort presented a slightly different picture, with the youngest groups
 being those living with a continued presence of cancer (OG3) as well as
 those living with similar acute healthcare needs (OG1).
- For the 2012 prostate cancer cohort, there were higher rates* of incidence in those residing in the least deprived areas. For the lung and colorectal cancer cohorts there appeared to be higher incidence rates in more deprived communities.
- In both 2007 and 2012, lung cancer standardised rates* were higher in urban areas compared to rural areas. There was no clear difference for the other cancers studied.

^{*}Truncated (age 45 and over) and age standardised rates per 100,000 population

Age:

The average (mean) age of women diagnosed with **breast** cancer in 2012 was 63.6, making this the youngest cohort studied as part of Scottish Routes from Diagnosis (SRfD) project. The national breast screening programme begins at age 50 and this may be a contributing factor to this result. By outcome group, women living with a likely continued presence of cancer (OG3) had the lowest mean age (61.7) and more than a third of this group were aged 54 or under (n=654, 36%). The oldest group was those with limited survival (OG4) with an average age of 76.8; two thirds of these women were aged 75 or over (n=187, 67%).

The average age of people diagnosed with **colorectal** cancer in 2012 was 70.7. By outcome group, people living with similar acute healthcare needs (OG1) were, on average, the youngest (66.5). Average age then broadly increased with increasing outcome group, with PLWC with limited survival (OG4) being the oldest (76.6).

For **lung** cancer, the average age at diagnosis in 2012 was 72.4, making this the oldest cohort of PLWC studied. Average age increased with outcome group number, with people living with similar acute healthcare needs (OG1) being, on average, 67.6 and people with limited survival (OG4) having an average age of 73.5.

The average age of people diagnosed with **prostate** cancer in 2012 (70.9) was similar to those with colorectal cancer, and this increased with outcome group number, from 66.9 for people living with similar acute healthcare needs (OG1) to 80.3 among people with limited survival (OG4).

Sex

There was a higher proportion of men diagnosed with **colorectal** cancer in 2012 than women (Men: 54%, Women: 46%, p<0.001), and this was similar to the proportion of people diagnosed with colorectal cancer in 2007. There was a higher proportion of males present in all outcome groups for colorectal cancer, except among people with limited survival (OG4).

In 2007 slightly more than half of **lung** cancer diagnoses were for men (52%, p=0.001), however in 2012, diagnoses were more evenly split between the sexes (50%, p=0.77).

Deprivation

Deprivation is measured using the Scottish Index of Multiple Deprivation (SIMD), which ranks small areas (called data zones) from most deprived (ranked 1) to least deprived (ranked 6,976). Here it is presented by population-weighted quintile, where SIMD1 represents the 20% most deprived (population-weighted) data zones in Scotland and SIMD5 the least deprived 20%.

To take account of the differing age/sex structures of the different deprivation quintiles, age-sex-standardised rates are shown in the figures below. Crude rates are shown in Appendix D. For more information on crude and standardised rates, please see the technical notes.

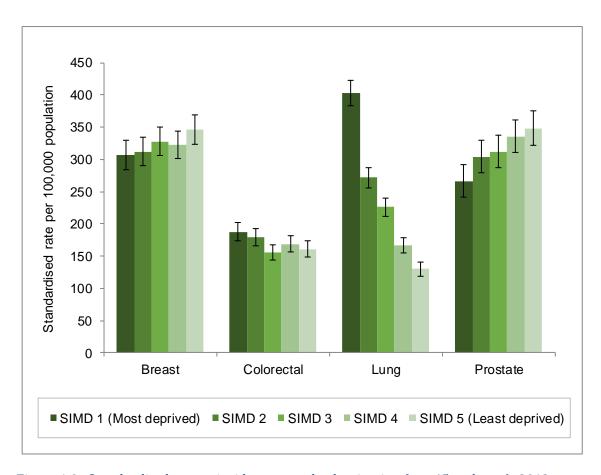


Figure 1.0: Standardised cancer incidence rates by deprivation (age 45 and over): 2012

Across the whole 2012 **breast** cohort, the truncated rates of breast cancer appear to increase as deprivation decreases (Figure 1.0). Rates range from 306 per 100,000 European truncated age standardised rate (EASR) in SIMD1 (most deprived areas), to 346 in SIMD5 (least deprived areas). However, this increase in rates was not found to be statistically significant. This finding corresponds with nationally published trends and other publications that suggest it is related to differences in reproductive history and uptake to screening (and other healthcare seeking behaviours) within different deprivation quintiles (ISD, 2019; Tweed, 2018; NCRAS, 2016).

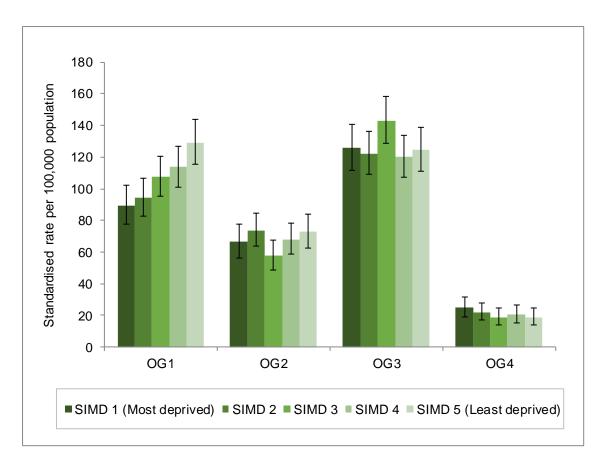


Figure 1.1: Standardised breast cancer incidence rates by deprivation (age 45 and over): 2012

By outcome group, the only statistically significant difference across the deprivation quintiles for breast cancer was for women living with similar acute healthcare needs (OG1); higher rates were observed in the least deprived areas when compared to the most deprived areas (Figure 1.1). This outcome group (OG1) accounts for 32% of the 2012 breast cancer cohort as a whole.

For all people diagnosed with a **colorectal** cancer in 2012, there was no strong evidence of a statistically significant trend in rates by deprivation (Figure 1.0). This differs from nationally published trends which suggest that the incidence of colorectal cancer is significantly higher in the most deprived areas when compared to the least deprived areas (ISD (2019)). This difference in findings may be due to larger numbers being used for the National Statistics publication (5 years combined) which allows for greater sensitivity of testing.

When analysed by outcome group, some indication of deprivation trends appear for colorectal cancer (Figure 1.2). This trend is statistically significant for OG4, where higher rates are observed in the most deprived areas compared to the least deprived areas.

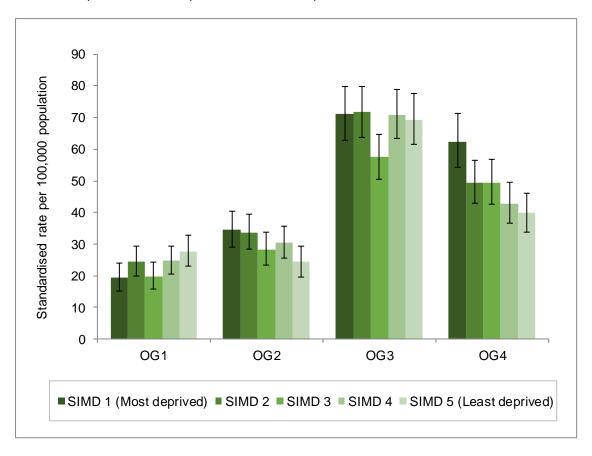


Figure 1.2: Standardised colorectal cancer incidence rates by deprivation (age 45 and over): 2012

There is a clear gradient in the numbers and age standardised rates of **lung** cancer across the deprivation gradient (Figure 1.0). This corresponds to nationally published trends and is likely to be related to socio-economic differences in smoking prevalence (ISD, 2019; Tweed, 2018; NCRAS, 2016). The standardised rate is around three times higher in the most deprived areas compared to the least deprived; this trend is fairly consistent across outcome groups and for the cohort as a whole (Figure 1.3)⁵.

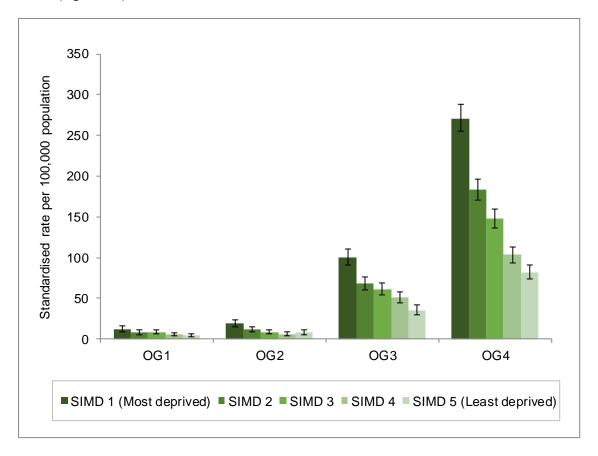


Figure 1.3: Standardised lung cancer incidence rates by deprivation (age 45 and over): 2012

-

⁵ 92% of the 2012 lung cancer cohort were in OG3 or OG4 and therefore caution should be applied when interpreting rates for OG1 and OG2 for this cohort.

The **prostate** cancer cohort show a deprivation gradient in the opposite direction, with the standardised rates of prostate cancer being higher in the least deprived areas compared to the most deprived (1.3 times higher) (Figure 1.0). This corresponds to National Statistics trends for Scotland (ISD, 2019) and is consistent with other publications (Tweed, 2018; NCRAS, 2016). This result may relate to trends in PSA (prostate-specific antigen) testing, despite no national screening programme being in place. The difference between most and least deprived areas is greatest for those living with similar acute healthcare needs (OG1) (Figure 1.4) and this was the only group where the difference appears to be statistically significant.

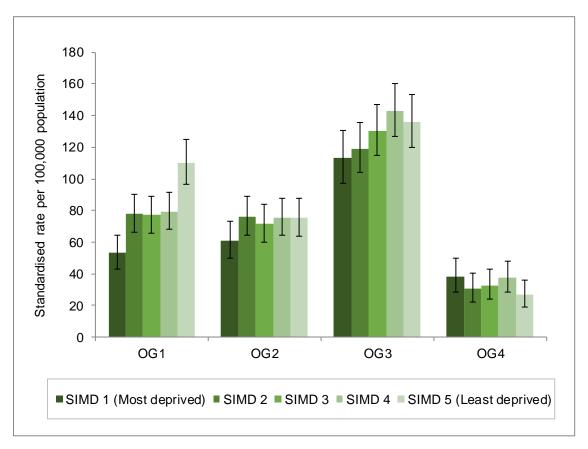


Figure 1.4: Standardised prostate cancer incidence rates by deprivation (age 45 and over): 2012

Further information on deprivation for these cancer types, also produced by this collaboration, can be found here.

Urban Rural Indicator

The Scottish Government Urban Rural Index (URI) Classification provides a standard definition of urban and rural areas in Scotland. More information on the URI can be found in the technical notes and on the Scottish Government website (SG, 2019). The six-fold classification is used in this analysis.

Generally, there are smaller proportions of people aged 16-34 living in rural areas compared to other areas of Scotland. Higher proportions of people aged 45 and over, particularly those aged 65 and over, live in rural areas (SG, 2018). This means standardised rates are particularly important when comparing different types of geographic area.

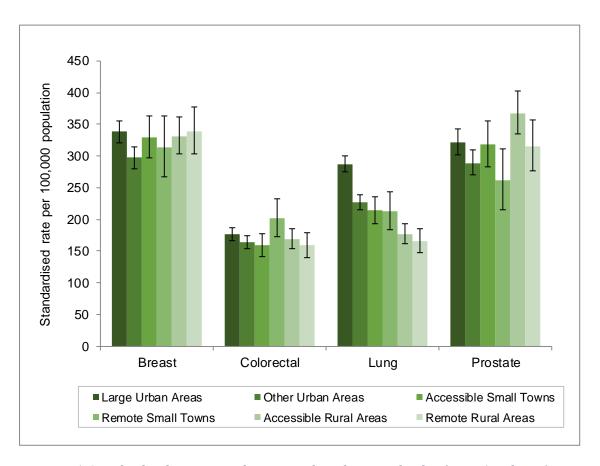


Figure 1.5: Standardised cancer incidence rates by urban-rural index (age 45 and over): 2012

There was no clear difference in rates of **breast, colorectal and prostate** cancer across the urbanrural index (Figure 1.5). When considered by outcome group, there was some variability, but there was no trend for any of these cancer types.

Standardised rates of lung cancer (for those aged 45 and over) show a clear gradient of decreasing incidence rates with increasing rurality (Figure 1.5). This is also broadly true for each outcome group, particularly for people living with a continued presence of cancer and with limited survival (OG3 and OG4) (Figure 1.6)⁶.

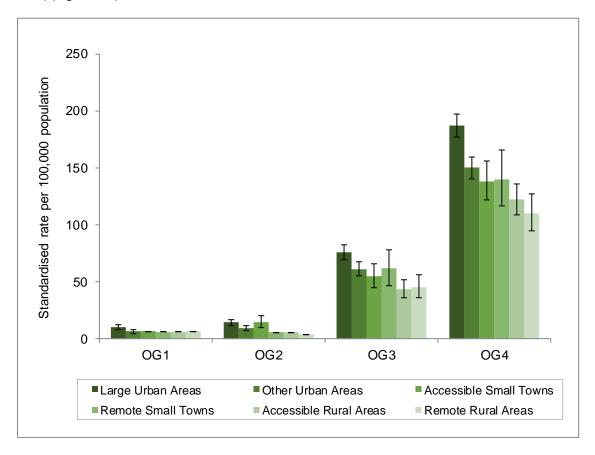


Figure 1.6: Standardised lung cancer incidence rates by urban-rural index (age 45 and over): 2012

Cancer Network

There are three cancer networks across Scotland – SCAN which incorporates areas from the southeast of Scotland, WoSCAN which is the west of Scotland and the North Cancer Alliance (NCA) which makes up the northern areas of Scotland.

The pattern of incidence rates for **breast** cancer across the networks changed between 2007 and 2012, but the only statistically significant change was in WoSCAN (Figure 1.7 and Figure 1.8). WoSCAN saw an increase in breast cancer rates from 300 per 100,000 population in 2007, to 334 per 100,000 population in 2012. This increase in the rate of breast cancer in WoSCAN was not observed across all OGs; only OG3 showing a statistically significant increase from 110 per 100,000 population in 2007, to 133 per 100,000 population.

⁶ 92% of the 2012 lung cancer cohort were in OG3 or OG4 and therefore caution should be applied when interpreting rates for OG1 and OG2 for this cohort.

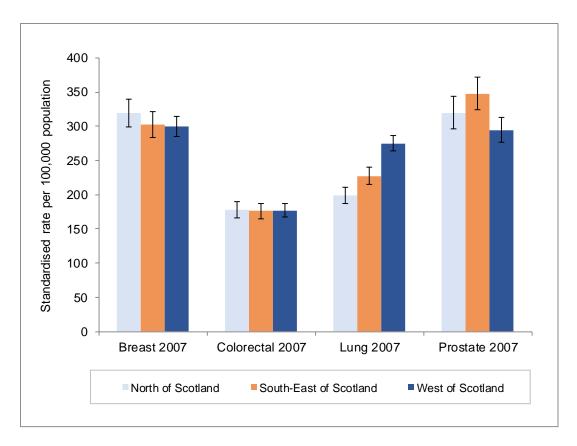


Figure 1.7: Standardised cancer incidence rates by cancer network (age 45 and over): 2007

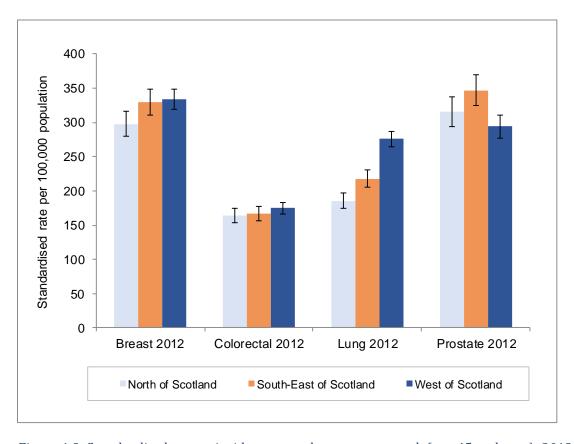


Figure 1.8: Standardised cancer incidence rates by cancer network (age 45 and over): 2012

There was very little difference in rates of **colorectal** cancers_across the networks (Figure 1.7 and Figure 1.8). This was relatively consistent across outcome groups.

Standardised rates of **lung** cancer in the cohort were significantly higher in WoSCAN than in the other networks and by outcome group for OG3 and OG4 (Figure 1.9). This is likely to be related to the demographics of some of the areas within WoSCAN. However, ScotPHO (2019) states that "per cigarette smoked, the risk of lung cancer seems to be higher in the west of Scotland than in some other populations, perhaps reflecting the additional effect of past occupational exposures, or other factors such as nutrition".

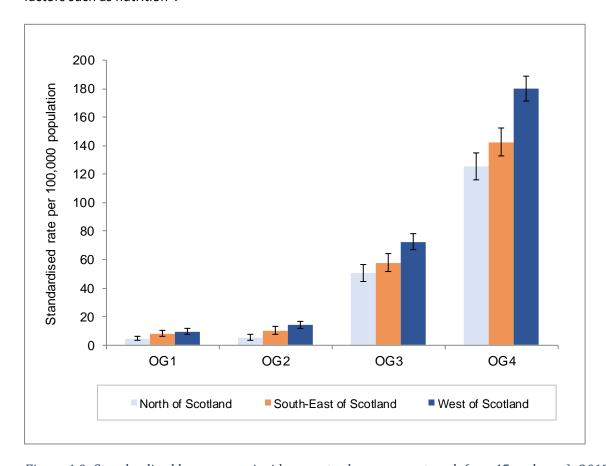


Figure 1.9: Standardised lung cancer incidence rates by cancer network (age 45 and over): 2012

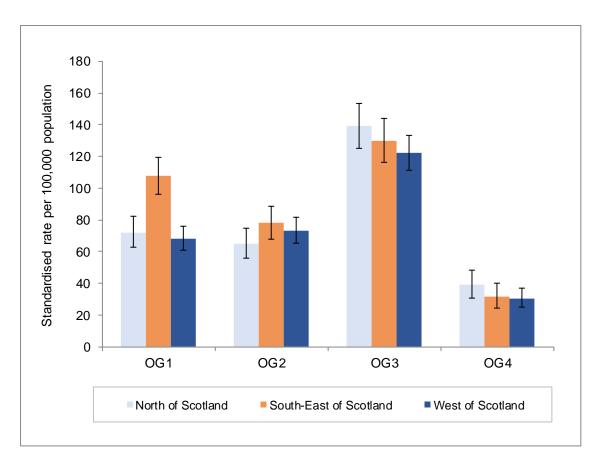


Figure 1.10: Standardised prostate cancer incidence rates by cancer network (age 45 and over): 2012

For **prostate** cancer, the age standardised rates in 2012 were lowest in WoSCAN and highest in SCAN (Figure 1.8). However, this pattern did not remain consistent across all outcome groups (Figure 1.10). The only statistically significant difference within an outcome group was among people living with similar acute healthcare needs (OG1), where rates in SCAN were higher than rates observed in other network areas.

Cancer Factors

- For cancers with established national screening programmes (breast and colorectal), screen-detected cancer accounted for a substantial proportion (32% and 18% respectively) of all cancers detected.
- A high proportion of breast cancers were detected at an early stage (73% at stage 1 or 2), compared to lung cancer where almost half (45%) were diagnosed at stage 4.

Method of Detection

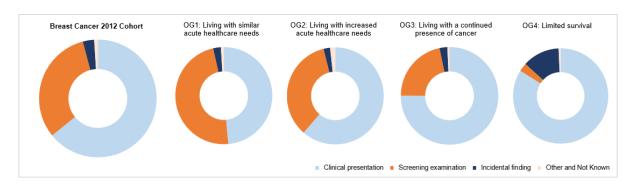


Figure 2.0: Breast cancer 2012: Method of Detection by outcome group

In 2012 approximately a third (32%) of **breast** cancer diagnoses were made as a result of screening and almost two thirds (64%) from clinical presentation (Figure 2.0). However, methods of breast cancer detection vary by outcome group. Among people living with similar acute healthcare needs (OG1), around half (48%) were diagnosed as a result of screening and the other half (49%) through clinical presentation. With each increasing outcome group number, the proportion of people diagnosed through screening decreases and clinical presentation becomes more common.

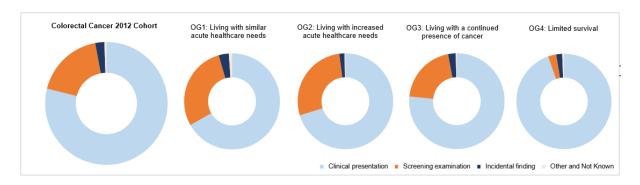


Figure 2.1: Colorectal cancer 2012: Method of Detection by outcome group

Just under a fifth (18%) of all **colorectal** cancers in 2012 were detected through screening (Figure 2.1), but this varied by outcome group. Just under a third of people living with similar or increased acute healthcare needs (OG1 29%; OG2 28%) were diagnosed through screening. Among people living with a continued presence of cancer (OG3), one in five (20%) had their cancer detected in this way. Only a very small proportion (3%) of people with limited survival (OG4) were diagnosed as a result of screening.

In 2007, the pilot phase of the bowel screening programme⁷ came to an end and the roll-out of the national screening programme began. As a result, the vast majority (94%) of cases diagnosed in 2007 were picked up through clinical presentation and relatively few colorectal cancers (3%) were

⁷ More information on the Scottish Bowel Screening Programme can be found at https://www.nsd.scot.nhs.uk/services/screening/bowelscreening/

detected through screening. In 2007, people diagnosed with colorectal cancer detected through screening were primarily living in NHS boards included in the bowel screening pilot programme (Fife, Grampian and Tayside) and in NHS Ayrshire & Arran, who joined the screening programme in September 2007.

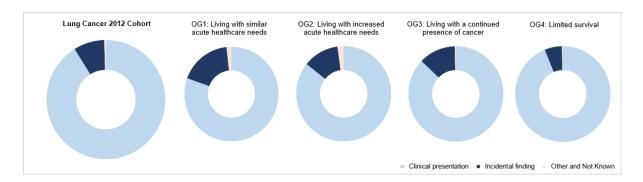


Figure 2.2: Lung cancer 2012: Method of Detection by outcome group

The vast majority (91%) of people diagnosed with **lung** cancer in 2012 were detected through clinical presentation (Figure 2.2), and this was also the case in 2007 (93%). The proportion of people diagnosed based on incidental findings decreases from 18% among those living with similar acute healthcare needs (OG1), to 6% of people with limited survival (OG4).

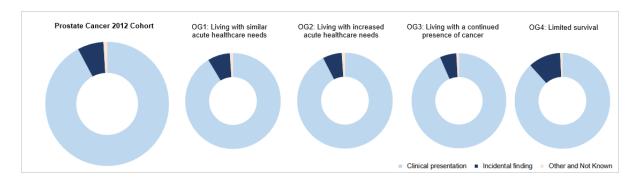


Figure 2.3: Prostate cancer 2012: Method of Detection by outcome group

Prostate cancers detected through PSA testing are not identifiable using Scottish Cancer Registry (SMR06) information. This means it was not possible to determine how many people received a prostate cancer diagnosis as a result of clinical investigation following a PSA test; these cases were registered as clinical presentation. Of prostate cancers diagnosed in 2012, 92% were recorded as being identified through clinical presentation (Figure 2.3). This is fairly consistent across outcome groups, although among people with limited survival (OG4) clinical presentation was recorded in 88% of cases and diagnosis through incidental findings appeared higher (11%) than for other outcome groups.

Tumour stage at diagnosis

The stage of a cancer describes its size and whether it has spread from where it started (Macmillan, 2018).

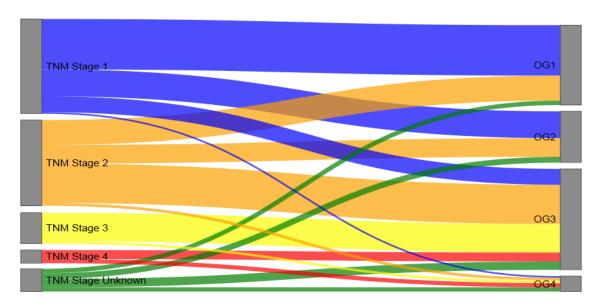


Figure 2.4: TNM stage at diagnosis and Outcome group: Breast Cancer 2012

Almost three-quarters (73%) of all **breast** cancers detected in 2012 were stage 1 or 2 (Figure 2.4); this varied from 94% of people living with similar acute healthcare needs (OG1), to 29% of people with limited survival (OG4). By definition, there were no stage 4 cancers among people living with similar or increased acute healthcare needs (OG1 or OG2), but in 2012, more than a quarter of people (27%) with limited survival (OG4) were stage 4 and a similar proportion (28%) had an unknown stage at diagnosis.

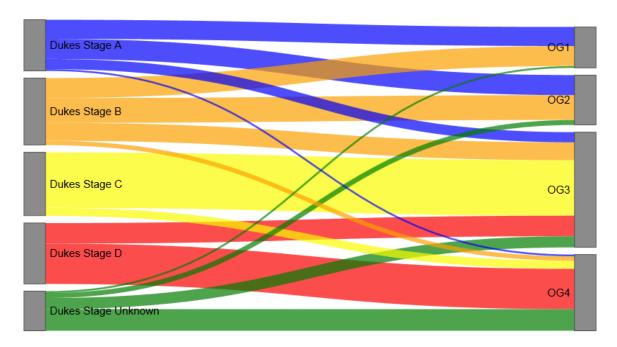


Figure 2.5: Dukes' stage at diagnosis and Outcome group: Colorectal Cancer 2012

In the 2012 **colorectal** cohort as a whole, similar proportions of people were diagnosed with the different Dukes' stages (Figure 2.5). However, the proportion of people with each stage varied by outcome group. By definition, people with Dukes' C or D tumours are categorised as OG3 (if not already in OG4). Consequently, almost all people living with similar or increased acute healthcare needs were detected at early stage (96% of OG1 and 90% of OG2 were either Dukes' A or Dukes' B). However, almost half (48%) of people living with a continued presence of cancer (OG3) were classified as Dukes' C, and 53% of those with limited survival (OG4) were Dukes' D. Within the 2012 colorectal cohort as a whole, 14% had an unknown cancer stage recorded at diagnosis; this varied from 4% in OG1 to 28% in OG4.

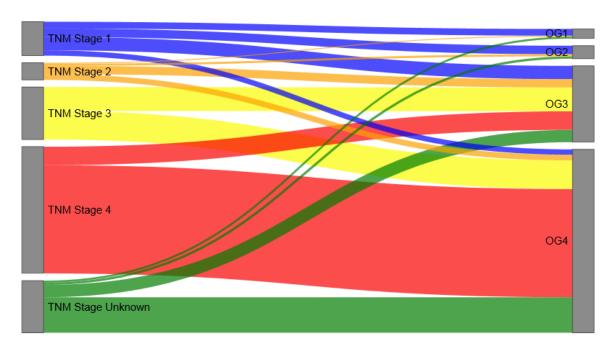


Figure 2.6: TNM stage at diagnosis and Outcome group: Lung Cancer 2012

Almost half (45%) of the 2012 **lung** cancer cohort as a whole were diagnosed with stage 4 cancer (Figure 2.6). The majority of people with lung cancer were in OG4 (65%), and 59% of this group were diagnosed at stage 4. Of the people living with lung cancer in OG1 and OG2, the majority were diagnosed at stage 1 (70% and 66% respectively). By definition, no people living with lung cancer who were diagnosed at stage 3 or 4 were in OG1 or OG2. Around half (56%) of people living with a continued presence of cancer (OG3) and three quarters (75%) of people with limited survival (OG4) were diagnosed at either stage 3 or 4. In the 2012 lung cohort as a whole, 18% had unknown staging at diagnosis, and this was similar for all outcome groups.

Cancer stage information for prostate cancer was only collected nationally in Scotland from 2013 onwards; therefore, this information is not available for the cohort years investigated in this analysis.

Tumour Grade

The grade of a tumour indicates what the cells look like when compared with normal cell tissue and gives an idea of how quickly the cancer may grow and spread.

In 2012, of the **breast** cancer diagnoses made 12% were grade I cancer (these cancer cells are well differentiated, meaning they tend to grow and spread more slowly). The proportion of grade I cancers decreases with increasing outcome group number, from 18% for people living with similar acute healthcare needs (OG1) to 4% for people with limited survival (OG4). Approximately half of all people living with similar or increased acute healthcare needs (OG1 49%; OG2 48%) were diagnosed with grade II cancers (moderately well differentiated), whereas a relatively high proportion (42%) of those living with a continued presence of cancer (OG3) were diagnosed with grade III (poorly

differentiated). The most common grade recorded for those with limited survival (OG4) was 'grade not determined', with 45% of this group falling into this category.

Of the **colorectal** cancer_cohort as a whole, only 3% were diagnosed with grade I cancer, and 61% were diagnosed with grade II. The pattern of tumour grades was similar for OG1 – 3, where the majority of people were diagnosed with grade II cancer (OG1 74%; OG2 77%; OG3 69%). Among those with limited survival (OG4), only 33% were diagnosed with grade II tumours, while 47% had no grade recorded.

In the majority (70%) of the **lung** cancer diagnoses made in 2012, no grade was reported. The proportion of tumours where the grade was not determined increased from 44%, among those with similar acute healthcare needs (OG1), to 77% among those with limited survival (OG4). Where a grade was reported, most were defined as grade II (moderately well differentiated) or grade III (poorly differentiated).

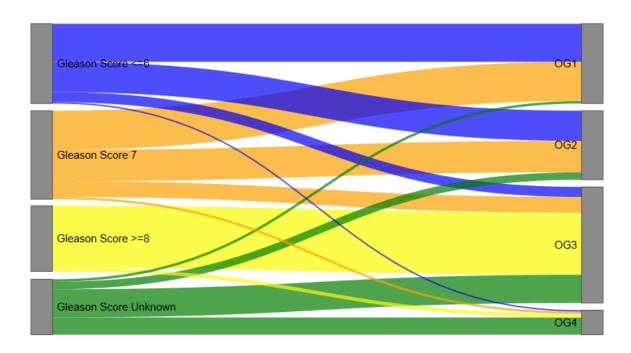


Figure 2.7: Gleason score and Outcome group: Prostate Cancer 2012

Across the 2012 **prostate** cancer cohort there was a mix of Gleason Scores, however the pattern varied by outcome group (Figure 2.7). Low or intermediate risk tumours (Gleason score 1-6 or 7) were most commonly recorded for people living with similar or increased acute healthcare needs (OG1 97%; OG2 89%). Those people living with a continued presence of cancer (OG3) were most commonly assigned Gleason scores of 8-10 (high risk) (54%) whilst the majority of people (70%) with limited survival (OG4) had no Gleason score recorded.

Morphology

The morphology of a cancer refers to the histological (microscopic cellular anatomy) classification of the cancer tissue and a description of the course of development that a tumour is likely to take: benign or malignant (behaviour)⁸. Details of the methods used to identify and classify morphology are listed in Appendix B.

Overall, 77% of the 2012 **breast** cancer cohort were defined as intermediate morphology, with 18% being of 'very good' or 'good' morphology classification. Similarly, 76-78% of people living beyond 12 months of a cancer diagnosis (OG1 to OG3) were of 'intermediate' morphology, whereas only 64% of the limited survival group (OG4) were defined in this way. Of people with limited survival (OG4), 12% were defined as 'poor' or 'very poor' and 10% had unknown morphology.

Of those diagnosed with **colorectal** cancer in 2012, 10% were classified with 'polyp-related' morphology and 8% with 'poor' morphology, however 82% had no morphology recorded. These proportions varied across the outcome groups with 20% of people living with similar healthcare needs (OG1) having polyp-related morphology compared to 3% of people with limited survival (OG4).

Within the 2012 **lung** cancer cohort, 12% were small cell and 88% were non-small cell cancers. The proportion of small-cell cancers increased from 2%, among people living with similar or increased acute healthcare needs (OG1 and OG2), to 14% of people with limited survival (OG4). This was broadly similar to the 2007 lung cancer cohort, where 15% were small cell tumours.

As the vast majority of **prostate** cancers are adenocarcinoma, we have not presented morphology information in this analysis.

Treatment

This analysis does not look at the order of any treatments, details of the specific modes of treatments, or the length or number of treatments. SRfD only identifies if a certain type of treatment has been undertaken at any point in the pathway, and it is important to note that these treatments may sometimes be palliative rather than curative in their intent. Treatments include surgery, chemotherapy, radiotherapy and hormonal therapy. Treatment details are recorded for any related cancer treatment at time of cancer registration. As such this will include treatment recorded within at least the first 6 months after diagnosis and is limited to no more than 2 years after diagnosis. Other treatments for the consequences of cancer or its treatment (for example pain relief, antinausea or treating lymphedema) are not included.

 $^{^{8} \} A dapted \ from \ \underline{https://meteor.aihw.gov.au/content/index.phtml/itemId/269647} \ \{accessed \ 10/04/19\}$

- The proportion of people who had no treatment recorded differs among cancer types, from 2% of women diagnosed with breast cancer to 43% of people diagnosed with lung cancer.
- Across breast, colorectal and lung cancer types, people with limited survival (OG4) were more commonly found to have no treatment recorded.
- The most common treatment types were dependent on cancer type, but tended to be similar for those living with similar or increased acute healthcare needs (OG1 and OG2). Where recorded, treatment was more mixed for those living with a continued presence of cancer or with limited survival (OG3 and OG4).

Of all **breast** cancer diagnoses in 2012, the most common combination of treatments associated with cancer registration was surgery, radiotherapy and hormonal therapy (35%). Relatively few people diagnosed with breast cancer had no treatment (2%).

Surgery, radiotherapy and hormonal therapy was also the most common treatment combination for people living with similar or increased acute healthcare needs (OG1 54%; OG2 42%). For people living with a continued presence of cancer (OG3), the most common treatment combinations were surgery, radiotherapy, systemic anti-cancer therapy (SACT) and hormonal therapy (32%), and surgery, radiotherapy and hormonal therapy (20%). For people with limited survival (OG4), the most common treatment was hormonal therapy only (41%) or no treatment recorded (23%, n=64).

Of people diagnosed with a **colorectal** cancer in 2012, the most common treatment was surgery only (46%). The majority of those living with similar or increased healthcare needs after cancer had surgery only (OG1 81%; OG2 75%). For people living with a continued presence of cancer, 37% had surgery alone, while the same percentage had surgery and SACT. Over half (54%) of people with limited survival (OG4) had no treatment recorded and a quarter (24%) had surgery only.

Of everyone diagnosed with a **lung** cancer in 2012, just under half (43%) had no recorded treatment. This varied from 9% among people living with similar acute healthcare needs (OG1) to 57% of people with limited survival (OG4). For the small proportion of people diagnosed with lung cancer who were living with similar or increased acute healthcare needs, the majority underwent surgery only (OG1 64% and OG2 52%) or radiotherapy only (OG1 16% and OG2 21%). People living with a continued presence of cancer (OG3) had a more mixed set of treatment combinations, with 26% having radiotherapy and SACT and 22% having radiotherapy only. For people with limited survival (OG4), the majority had no recorded treatment (57%). Where present, the most common treatment for this group was radiotherapy only (20%). However, as described in Chapter 1, many people with limited survival died quickly following a lung cancer diagnosis (survival at six months in OG4 was 25%). This is related to the balance of patient and tumour characteristics, as well as the ethical consideration of harm of treatment versus possible benefits and impact on quality of life.

Of people diagnosed with **prostate** cancer in 2012, 23% had no recorded treatment; this varied from 10% of people living with a continued presence of cancer (OG3), to 33% of people with limited survival (OG4) and 35% of people living with increased acute healthcare needs (OG2). The most common treatments overall were radiotherapy and hormonal therapy (25%) and hormonal therapy only (23%). For people living with similar or increased acute healthcare needs after this cancer diagnosis, the most common treatments were radiotherapy and hormonal therapy (OG1 27%; OG2 23%) and surgery only (OG1 25%; OG2 21%). Among people who were living with a continued presence of cancer (OG3) the most common treatments were hormonal therapy only (38%) and radiotherapy and hormonal therapy (29%). Of people with limited survival (OG4) who had treatment recorded, the most commonly recorded treatment was hormonal therapy only (45%).

Details of the most common treatments for each cancer cohort are shown in Appendix D.

Discussion on the results from Chapters 1 & 2 can be found www.macmillan.org.uk/SRFD.

References

- Charlson, M.E., Pompei, P., Ales, K. L., Mackenzie, C. R. (1987). A new method of classifying prognostic comorbidity in longitudinal studies: Development and validation. *Journal of Chronic Diseases*. 40 (5) pp. 373-83.
- Information Services Division (ISD), NHS National Services Scotland. (2019) Cancer Incidence and Prevalence in Scotland (to December 2017). https://www.isdscotland.org/Health-Topics/Cancer/Publications/data-tables2017.asp?id=2400#2400 [accessed 29 July 2019].
- Macmillan Cancer Support (2018) Staging and grading for breast cancer.

 https://www.macmillan.org.uk/information-and-support/breast-cancer/treating/treatment-decisions/understanding-your-diagnosis/staging-and-grading.html [accessed 29 October 2019].
- Maddams, J., Møller, H., Utley, M. (2012). Projections of cancer prevalence in the United Kingdom 2010-2040. British Journal of Cancer. 107 (7) pp. 1195-202. http://eprints.whiterose.ac.uk/118357/ (Projections scenario 1). Macmillan analysis based on extrapolation of 2010 and 2020 projections that the number of people living with cancer will hit an estimated 2.5 million in 2015.
- NCRAS. (2016). Deprivation and cancer: in search of a common measure across England, Wales, Scotland, Northern Ireland and Ireland, Based on cancer incidence and mortality data, 2008-2012. http://www.ncin.org.uk/view?rid=3278 [accessed 29 July 2019].
- Quaresma, M., Coleman, M.P., & Rachet, B. (2014). 40 year trends in an index of survival for all cancers combined and survival adjusted for age and sex for each cancer in England and Wales, 1971-2011: a population-based study. The Lancet, (385). pp. 1206-1218. https://doi.org/10.1016/S0140-6736(14)61396-9.
- SCOTPHO. (2019). Lung Cancer Key Points: https://www.scotpho.org.uk/health-wellbeing-and-disease/cancer-lung/key-points/ [accessed 29 July 2019].
- Scottish Government. (2018). Rural Scotland Key Facts 2018.

 https://www.gov.scot/binaries/content/documents/govscot/publications/statistics/2018/10

 /rural-scotland-key-facts-2018/documents/rural-scotland-key-facts-2018-pdf/govscot%3Adocument [accessed 29 October 2019].
- Scottish Government. (2019). Urban Rural Classification: Defining Scotland by Rurality. https://www2.gov.scot/Topics/Statistics/About/Methodology/UrbanRuralClassification [accessed 29 October 2019].
- Tweed, E.J., Allardice, G.M., McLoone P., Morrison, D.S. (2018). Socio-economic inequalities in the incidence of four common cancers: a population-based registry study. *Public Health*. *154* (January) pp.1-10.

Appendix: A: Terms and Abbreviations

Term	Definition							
95% CI	95% confidence interval.							
Aetiology	The factors which cause or predispose the development of a							
	particular condition.							
Acute healthcare	Healthcare for a specific time-defined illness or condition.							
Breast cancer	Female only invasive breast cancer (ICD-10 C50).							
Cancer type	The site/type of the (primary) cancer, regardless of year.							
CAG	Clinical Advisory Group.							
Charlson Score	A method of assessing comorbidity through prior hospital records, scoring these based on the reason for the hospital							
	admission. The Charlson score is a validated tool used by healthcare professionals to predict risk of death and the							
	burden of a disease. Starting at zero, a patient's score can increase because of the severity of their illness or illnesses, or							
	because the number of conditions they have increases.							
Cohort	When referring to the year of index cancer diagnosis and cancer type combination (e.g. breast cancer 2007 cohort).							
Clinical Presentation	One categorisation of how a cancer was first detected. Unless there is evidence to the contrary (e.g. screening or incidental finding), or there is real doubt (not known), it can							
	be implied to be clinical presentation.							
Colorectal Cancer	Colorectal cancer (ICD-10 C18-C20).							
Confidence Interval (CI)	An estimated range of possible outcomes of a measurement, which gives an idea of uncertainty around that measurement. Here a 95% confidence interval is used which means that if the same measurement was repeated many times, 95% of values would fall within the defined range. This means there is a 5% chance that the true value will fall outside the defined range.							
Crude rate	Calculated by dividing the total number of events in a given time period by the total number of persons in the population and then multiplying by 100,000. This allows for comparison between areas by providing a rate per 100,000 population. Crude rates do not take into account any differences in demographics between areas.							
DCE	Detect Cancer Early Programme							
Diagnosis year	Year in which the index cancer was diagnosed (either 2007 or 2012 here).							
Dukes' Stage	Staging of colorectal cancer from A (tumour limited to muscularis propria (muscle coat), regional lymph nodes negative) to D (distant metastases).							
EASR	European age standardised rate (see 'standardised rate' for more detail).							
<u>Episode</u>	A measure of hospital activity encompassing the time a person spends within a particular hospital speciality. This may be as an inpatient, daycase or outpatient. Each episode is							

	initiated by a referral (including re-referral) or admission and
	is ended by a discharge.
Gleason Score	Prostate cancer grading system, used to ascertain the
	aggressiveness of a cancer. Higher scores suggest a cancer
	which will grow or spread more rapidly.
<u>Grade</u>	A measure of how quickly a cancer may grow or spread,
	determined through examination of cancer cells.
<u>ICD-10</u>	World Health Organisation's International Statistical
	Classification of Diseases and Related Health Problems.
Incidental Finding	One categorisation of how a cancer was first detected. If a
	patient presents with a minor/major issue and is found to
	have a tumour/neoplasm which is not linked in any way to
	this issue, the tumour/neoplasm is recorded as an
	incidental finding.
Index cancer	The cancer/tumour which has been included in one of the
	cohorts for this study using the detailed selection criteria. A
	person may have experienced other cancers before or after
	this one (of the same or a different type), but this is the
	tumour which is included in the analysis.
ISD	Information Services Division, part of NHS National Services
	Scotland.
Kaplan-Meier	Kaplan-Meier is a method of estimating survival over time,
	measuring the proportions of time people live following a
	diagnosis.
Lung cancer	Trachea, bronchus & lung cancer (ICD-10 C33-34).
Metastasis	When cancer cells spread from the primary site (where the
	cancer started) to other parts of the body through the blood
	or lymphatic system. These cancers cells may grow into a
	tumour in another part of the body, this is referred to as a
	metastasis (or secondary cancer).
Morphology	This is the morphological type of the tumour as determined by
- 1	a pathologist either on the basis of histology or cytology. The
	Scottish Cancer Registry currently records tumour type
	according to the International Classification of Diseases for
	Oncology or ICDO.
NCA	North Cancer Alliance (NHS Grampian, NHS Highland, NHS
	Tayside, NHS Orkney, NHS Shetland and NHS Western Isles).
OG(s)	Survivorship Outcome Group(s).
OG1	People living with similar acute healthcare needs compared to
	the time before their cancer diagnosis.
OG2	People living with increased acute healthcare needs compared
	to the time before their cancer diagnosis.
OG3	People likely to be living with a continued presence of cancer
	after their cancer diagnosis.
OG4	People with limited survival (<12 months) following their
	cancer diagnosis.
PLWC	People living with cancer.
Prostate Cancer	Male prostate cancer (ICD-10 C34).
PSA Test	The prostate specific antigen (PSA) test is a blood test which
13/11030	can contribute towards a diagnosis of prostate cancer.
	can continuate towards a diagnosis of prostate cancer.

Recurrence	When the same cancer returns after treatment. This can be
	local (in the same area of the body as the original cancer) or
	distant (in a different area of the body).
SACT	Systemic anti-cancer therapy.
<u>SCAN</u>	South-East Cancer Network (NHS Fife, NHS Lothian, NHS
	Borders, NHS Dumfries & Galloway).
Screen-detected	One categorisation of how a cancer was first detected.
	Screen-detected is where a person has been directed from a
	routine cervical smear/mammogram/bowel screening test in
	the absence of symptoms.
SIMD	Scottish Index of Multiple Deprivation (SIMD1=most deprived
	quintile, SIMD5=least deprived quintile).
<u>SMR00</u>	Scottish Outpatient dataset.
SMR01	Scottish Inpatient and daycase dataset.
<u>SMR06</u>	Scottish Cancer Registry dataset.
SRfD	Scottish Routes from Diagnosis.
Standardised rate	Truncated age-sex-standardised rates (EASRs) are used here.
	These are calculated by taking the crude rate for each age and
	sex group and multiplying this by the population in each age
	(and sex) group in the European Standard Population. It is a
	theoretical measure which allows for comparison across areas
	where the age or sex breakdown of the populations may differ
	(so for example when comparing an area with a higher
	proportion of older people to one with a younger population).
	This allows valid comparisons to be made between
	geographical areas and through time. The rates here are
	truncated to include only the ages of interest (for example
	excluding younger populations).
<u>Stage</u>	Stage is an assessment of how far a tumour has spread and
	typically involves an assessment of local size of the tumour,
	how far it has grown through local tissues and distant spread
	of disease with metastases to lymph nodes or other organs.
Statistically significant	Statistical testing suggests the result is not just due to random
, ,	variation.
TNM	TNM is the international staging classification recommended
	by International Agency for Research on Cancer (IARC) and
	used for staging at most tumour sites. The TNM system is
	separated into 3 parts: T (Tumour) - The extent of and the
	size of the primary tumour, N (Node) - Whether or not the
	tumour has spread to the regional lymph nodes (the group of
	lymph glands to which tissue fluid in the area of the tumour
	first "drains") and M (Metastasis) - The presence or otherwise
	of distant metastasis.
WoSCAN	West of Scotland Cancer Network (NHS Ayrshire & Arran, NHS
	Forth Valley, NHS Greater Glasgow & Clyde, NHS Lanarkshire).

Appendix: B: Morphology definitions:

Breast Cancer:

Divide tumour morphology into categories reflecting prognosis, based on US SEER data (Berg JW, Hutter RVP. Breast Cancer. Cancer 1995; 75(Suppl 1): 257-269).

Morphology categories		Morphology codes (ICD- O(3))**
1. Very good prognosis (5-year RS ≥ 90%)	Medullary carcinoma with lymphoid stroma, Mucinous (colloid) carcinoma, Papillary carcinoma, Tubular carcinoma, Adenoid cystic carcinoma, Cribriform carcinoma	8050, 8200-8201, 8211, 8260, 8480-8481, 8503, 8512,
2. Good prognosis (5-year RS 80-89%)	Lobular carcinoma, Medullary carcinoma NOS, Duct and lobular carcinoma, Comedocarcinoma, Scirrhous carcinoma	8141, 8501, 8510-8511, 8520-8521, 8522
3. Intermediate prognosis (5-year RS 70-79%)	Ductal carcinoma NOS, Paget's disease	8500, 8540-8543
4. Poor prognosis (5-year RS 60-69%)	Adenocarcinoma NOS, Carcinoma NOS	8010-8011, 8012-8022, 8140
5. Very poor prognosis	Inflammatory carcinoma	8530
6. Other or not known		All other M-codes

^{**}All behaviour code 3 (i.e., invasive).

Colorectal Cancer:

Morphology categories	Morphology codes (ICD-O(3))
polyp-related	8210/3, 8221/3, 8261/3, 8263/3
poor prognosis	8020/3, 8480/3, 8481/3, 8490/3

Lung Cancer:

Morphology categories	Morphology codes (ICD-O(3))
Small cell	8041/3-8045/3
other	all other morphology codes ending in /3

Appendix C: Limitations

While these definitions meet the criteria of being both comparable across cancers and allowing the identification of distinct groups of survivorship experience with sufficiently large numbers across cancer types, there are some limitations of these definitions. One of the most important to acknowledge is that this project is based entirely on nationally available administrative systems and as such is based on secondary care information only. There will be co-morbidities and healthcare needs which will be managed entirely through other routes (e.g. primary care) which are not included as part of this grouping. Additionally, we are using bed days as a proxy for need but this may not always be accurate.

By using national data in this way we may be making broad assumptions about the types of people categorised within each group which may not always be accurate. For example, we hypothesise that many in OG1 and 2 will have had successful treatment but this may not always be the case. OG3 in particular is a diverse group, intended to reflect the many different ways cancer can be an ongoing part in a person's life beyond the cohort year. The broad intention of this group is to identify any direct cancer related activity in the following 5 years which can be picked up using national datasets. Consequently, OG3 is a heterogeneous group, a mixture of cancers treated with a curative intent and non-curable cancers – for example although stage 3 cancers are included here these may be treated with curative intent, also included here are second cancers although there is no delineation regarding what the cancer type or the severity of impact the second cancer will have on the person's life. As a result, this does not mean that everyone in OG3 will have had a continuous presence of cancer for the whole period; many will have periods which are apparently cancer free before a further cancer is diagnosed or further cancer treatment activity recorded. This definition is a series of indicators of further cancer activity but this may be incomplete – as a result this group should be viewed as being likely to have a continued, but not necessarily continuous, presence of cancer (in some form) in the following five years.

There are a number of further limitations with the general SRfD approach and methodological decisions made. These are detailed more fully in the Introduction and Methods chapter.

While there are versions of the Charlson measure which exclude the impact of cancer, the approach used in this analysis did not specifically exclude cancer as it was intended to be a measure of general health.

Truncated rates are intended to provide a rate of cancer per 100,000 population in a particular age group. For the purposes of this analysis and based on the age distribution of the cancers studied, these rates are presented for those aged 45 and over. This means that the rates presented here will not be comparable to national rates for all ages and will be higher.

When considering treatment, current nationally available data provides information on if a particular treatment type was started (and the date) but, with the exception of surgery, is unable to provide further detail. As a result we are unable to measure dosage or length of treatment. Development work as part of the SCRIS programme (https://www.isdscotland.org/SCRIS/) will hopefully help address these gaps in future analysis.

Considering treatment use in those with limited survival is difficult, much of this may have been palliative in nature. Where no treatment was recorded we are unable to comment on the rationale behind this.

For more information on the Scottish Routes from Diagnosis project please see www.macmillan.org.uk/SRFD or for more information on the Macmillan – ISD Scottish Cancer Pathways collaboration generally please see the Macmillan.org.uk/srfd or ISD Scottish Cancer Pathways collaboration generally please see the Macmillan.org.uk/srfd or ISD Scottish Cancer Pathways collaboration generally please see the Macmillan.org.uk/srfd or ISD Website.

Appendix D: Tables of Characteristics Analysis: 2012 & 2007: By Cancer Type

2012: Breast Cancer

Characteristic	Breast cancer cases diagnosed in 2012		Outcome Group 1 (Living with similar acute healthcare needs)		Outcome (Living with included the control of the co	reased acute	Outcome Group 3 (Living with a continued presence of cancer)		Outcome Group 4 (Limited survival)		CHI ² Test
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	
Total Cases	4,468		1,444	32	926	21	1,819	41	279	6	
Age Band											p < 0.00
15 - 44	385	9	100	7	66	7	211	12	8	3	p < 0.00
45 - 54	941	21	304	21	179	19	443	24	15	5	
55 - 64	1,099	25	441	31	213	23	419	23	26	9	
65 - 74 75 - 84	1,005 733	22 16	374 178	26 12	216 168	23 18	372 277	20 15	43 110	15 39	
85 - 99	305	7	47	3	84	9	97	5	77	28	
	p < 0.001										
Average Age (mean)	63.6	(63.2-64.0)	62.4	(61.8-63.0)	65.3	(64.4-66.2)	61.7	(61.0-62.3)	76.8	(75.2-78.4)	
Ethnicity											
White	2,657	59									
Other ethnicity	26	1									
Not Known or refused/not disclosed	1,785 p < 0.001	40									
		[1]									
Deprivation (SIMD at diagnosis): Crude rate of cas 1 (Most deprived)	ses per 100,000 po 169	(158-181)	48	(42-55)	37	(32-43)	70	(62-78)	14	(11-18)	
2	181	(169-193)	53	(46-60)	42	(36-48)	73	(66-82)	13	(10-17)	
3	196	(184-209)	64	(57-72)	34	(29-39)	88	(79-96)	11	(8-14)	
4	200	(188-214)	69	(61-77)	42	(36-48)	78	(70-86)	12	(9-15)	
5 (Least deprived)	218	(204-232)	78	(70-86)	45	(39-52)	83	(75-92)	11	(8-14)	L
Deprivation (SIMD at diagnosis): Truncated (at 45	yrs) EASR of case	es per 100,000	population ^[1]								
1 (Most deprived)	306	(284-329)	89	(78-102)	67	(57-77)	126	(112-141)	25	(19-31)	
2 3	312 327	(291-335) (306-350)	94 107	(83-107) (95-121)	74 58	(64-85) (49-68)	122 143	(109-136) (129-158)	22 19	(17-28) (14-25)	
4	327	(306-350)	107	(95-121)	58 68	(58-78)	143 120	(129-158)	19 21	(14-25)	
5 (Least deprived)	346	(323-369)	129	(116-144)	73	(63-84)	125	(111-139)	19	(14-24)	
Jrban Rural Indicator: Crude rate of cases per 100,		(175-193)		/E0 001	200	/0E 401		/74 001	40	(0.44)	
Large Urban Areas Other Urban Areas	184 181	(175-193) (172-192)	57 56	(52-62) (51-62)	39 40	(35-43) (35-45)	77 74	(71-83) (68-81)	12 11	(9-14) (9-14)	
Accessible Small Towns	207	(188-228)	77	(65-90)	40	(32-50)	78	(66-91)	12	(8-18)	
Remote Small Towns	209	(180-242)	48	(35-65)	47	(34-64)	94	(75-117)	20		
Accessible Rural Areas	210	(193-228)	77	(67-88)	37	(30-45)	84	(73-95)	12	(8-17)	
Remote Rural Areas	237	(213-264)	87	(73-104)	48	(38-61)	88	(73-104)	14	(9-22)	
Jrban Rural Indicator: Truncated (at 45 yrs) EASR of	of cases per 100,0	00 population[1]								
Large Urban Areas	338	(321-356)	109	(99-119)	73	(65-81)	135	(125-146)	21	(17-26)	
Other Urban Areas	297	(280-315)	95	(86-105)	66	(58-74)	117	(107-128)	20	(15-24)	
Accessible Small Towns Remote Small Towns	330 313	(298-364) (267-363)	120 68	(101-141) (47-93)	63 74	(49-78) (53-99)	127 142	(107-149) (112-176)	20 28	(12-28)	
Accessible Rural Areas	332	(304-361)	123	(106-141)	60	(48-72)	127	(110-145)	22	(15-31)	
Remote Rural Areas	339	(303-377)	126	(105-150)	70	(54-87)	123	(101-146)	21	(13-31)	
Cancer Networks: Crude rate of cases per 100,000 p North of Scotland	population ^(*)	(174-196)	65	(59-72)	36	(31-41)	73	(66-80)	10	(8-13)	
South-East of Scotland	194	(183-205)	64	(58-70)	37	(33-42)	79	(72-86)	14	(11-17)	
West of Scotland	196	(188-205)	60	(55-64)	44	(40-48)	81	(76-87)	12	(10-14)	
Name - Naturalis - Tarana - 1 (2) 45> 5000 - (
Cancer Networks: Truncated (at 45 yrs) EASR of cas North of Scotland	298	(279-316)	107	(97-119)	59	(51-67)	114	(103-125)	18	(14-22)	
South-East of Scotland	330	(311-349)	110	(100-122)	64	(55-72)	131	(119-143)	25	(20-31)	
West of Scotland	334	(320-349)	105	(97-114)	76	(69-83)	133	(124-142)	20	(17-24)	
Method of Detection ^{[2],[3]}											0.00
Clinical presentation	2,868	64	701	49	568	61	1365	75	234	84	p < 0.0
Screening examination	1,416	32	692	48	322	35	394	22	8	3	
Incidental finding	139	3	37	3	20	2	47	3	35	13	
Other and Not Known	45	1	14	1	16	2	13	1	2	1	
	p < 0.001										
Stage	1,711	38									
		38	040	60	405	50	204	40	20	40	
1 2	1,548	35	913 450	63 31	485 337	52 36	284 710	16 39	29 51	10 18	
	559	35 13	913 450 0	31 0			710 513	39 28	51 46	18 16	i i
2 3 4	559 238	13 5	450 0 0	31 0 0	337 0 0	36 0 0	710 513 162	39 28 9	51 46 76	18 16 27	'
2 3	559 238 412	13	450 0	31 0	337 0	36 0	710 513	39 28	51 46	18 16	
2 3 4 Not Known	559 238	13 5	450 0 0	31 0 0	337 0 0	36 0 0	710 513 162	39 28 9	51 46 76	18 16 27	·
2 3 4 Not Known	559 238 412 p < 0.001	13 5 9	450 0 0 81	31 0 0 6	337 0 0 104	36 0 0 11	710 513 162 150	39 28 9 8	51 46 76 77	18 16 27 28	·
2 3 4 Not Known	559 238 412	13 5 9	450 0 0	31 0 0 6	337 0 0	36 0 0 11	710 513 162	39 28 9 8	51 46 76	18 16 27 28	·
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated)	559 238 412 p < 0.001 533 1,957 1,483	13 5 9 12 44 33	450 0 0 81 267 713 387	31 0 0 6 18 49 27	337 0 0 104 134 445 249	36 0 0 11 14 48 27	710 513 162 150 121 742 761	39 28 9 8 7 41 42	51 46 76 77 11 57 86	18 16 27 28 4 20 31	'
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated)	559 238 412 p < 0.001 533 1,957 1,483 495	13 5 9 12 44	450 0 0 81 267 713	31 0 0 6	337 0 0 104 134 445	36 0 0 11 14 48	710 513 162 150 121 742	39 28 9 8	51 46 76 77 11 57	18 16 27 28 4 20	·
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) Grade not determined	559 238 412 p < 0.001 533 1,957 1,483	13 5 9 12 44 33	450 0 0 81 267 713 387	31 0 0 6 18 49 27	337 0 0 104 134 445 249	36 0 0 11 14 48 27	710 513 162 150 121 742 761	39 28 9 8 7 41 42	51 46 76 77 11 57 86	18 16 27 28 4 20 31	p < 0.00
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001	13 5 9 12 44 33 11	450 0 0 81 267 713 387 77	31 0 0 6 18 49 27 5	337 0 0 104 134 445 249 98	36 0 0 11 14 48 27 11	710 513 162 150 121 742 761 195	39 28 9 8 7 41 42 11	51 46 76 77 11 57 86 125	18 16 27 28 4 20 31 45	·
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good	559 238 412 p < 0.001 533 1,957 1,483 495	13 5 9 12 44 33 11	450 0 0 81 267 713 387	31 0 0 6 18 49 27 5	337 0 0 104 134 445 249	36 0 0 11 14 48 27 11	710 513 162 150 121 742 761	39 28 9 8 7 41 42 11	51 46 76 77 11 57 86	18 16 27 28 4 20 31 45	p < 0.00
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430	13 5 9 12 44 33 11	450 0 0 81 267 713 387 77	31 0 0 6 18 49 27 5 7 7 12 78	337 0 0 104 134 445 249 98 48 124 706	36 0 0 11 14 48 27 11	710 513 162 150 121 742 761 195	39 28 9 8 7 41 42 11	51 46 76 77 11 57 86 125 5 33 179	18 16 27 28 4 20 31 45 2 2 12 64	p < 0.00
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105	13 5 9 12 44 33 11 5 13 77 72	450 0 0 81 267 713 387 77 99 178 1124 7	31 0 0 6 18 49 27 5 7 12 78 0	337 0 0 104 134 445 249 98 48 124 706 20	36 0 0 11 14 48 27 11 5 13 76 2	710 513 162 150 121 742 761 195 54 244 1421 44	39 28 9 8 7 41 42 11 3 13 78 2	51 46 76 77 11 57 86 125 5 33 179 34	18 16 27 28 4 20 31 45 2 12 64 12	p < 0.00
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105	13 5 9 12 44 33 11 5 13	450 0 0 81 267 713 387 77 99 178	31 0 0 6 18 49 27 5 7 7 12 78	337 0 0 104 134 445 249 98 48 124 706	36 0 0 11 14 48 27 11 5 13	710 513 162 150 121 742 761 195	39 28 9 8 7 41 42 11	51 46 76 77 11 57 86 125 5 33 179	18 16 27 28 4 20 31 45 2 2 12 64	p < 0.00
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105	13 5 9 12 44 33 11 5 13 77 72	450 0 0 81 267 713 387 77 99 178 1124 7	31 0 0 6 18 49 27 5 7 12 78 0	337 0 0 104 134 445 249 98 48 124 706 20	36 0 0 11 14 48 27 11 5 13 76 2	710 513 162 150 121 742 761 195 54 244 1421 44	39 28 9 8 7 41 42 11 3 13 78 2	51 46 76 77 11 57 86 125 5 33 179 34	18 16 27 28 4 20 31 45 2 12 64 12	p < 0.0
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Freatments ^[4]	559 238 412 p < 0.001 533 1,957 1,483 p < 0.001 206 579 3,430 105 148 p < 0.001	12 44 33 11 5 5 13 77 2	450 0 0 81 267 713 387 77 99 178 1124 7 36	31 0 0 6 18 49 27 5 7 12 78 8 0 0 2	337 0 0 104 134 445 249 98 48 124 706 20 28	36 0 0 11 14 48 27 11 5 13 76 6 2 3	710 513 162 150 121 742 761 195 54 244 1421 44 56	39 28 9 8 8 7 7 41 42 11 11 3 13 78 8 2 3	51 46 76 77 11 57 86 125 5 33 179 34 28	18 16 27 28 4 20 311 45 2 12 64 12 10	p < 0.0
2 3 4 Not Known Srade 1 (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Freatments ⁽⁴⁾ Surgery only	559 238 412 p < 0.001 533 1.957 1.483 495 p < 0.001 206 579 3,430 105 148 p < 0.001	13 5 9 9 12 44 33 11 5 13 77 2 2 3 3 3 3 3	450 0 0 81 267 713 387 77 99 178 1124 7	31 0 0 6 18 49 27 5 7 12 78 0	337 0 0 104 134 445 249 98 48 124 706 20	36 0 0 11 14 48 27 11 5 5 13 76 2 2 3	710 513 162 150 121 742 761 195 54 244 1421 44	39 28 9 8 7 7 41 42 11 3 3 78 2 3	51 46 76 77 11 57 86 125 5 33 179 34	18 16 27 28 4 20 31 45 2 12 64 12	p < 0.0 p < 0.0 p < 0.0
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Freatments ^[4]	559 238 412 p < 0.001 533 1,957 1,483 p < 0.001 206 579 3,430 105 148 p < 0.001	12 44 33 11 5 5 13 77 2	450 0 0 81 267 713 387 77 99 178 1124 7 36	31 0 0 6 18 49 27 7 5	337 0 0 104 134 445 249 98 48 124 706 20 28	36 0 0 11 14 48 27 11 5 13 76 6 2 3	710 513 162 150 121 742 761 195 54 244 1421 44 56	39 28 9 8 8 7 7 41 42 11 11 3 13 78 8 2 3	51 46 76 77 11 57 86 125 5 33 179 34 28	18 16 16 17 28 4 4 20 20 31 45 12 12 10 66 6	p < 0.0
2 3 4 Not Known Srade 1 (Well differentiated) II (Moderately well differentiated) III (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Treatments ⁽⁴⁾ Surgery only Hormonal therapy only Surgery & Radiotherapy Surgery & SACT	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105 148 p < 0.001	13 5 9 9 12 44 33 33 11 11 5 5 13 77 7 2 2 3 3 10 4 4 3 3 3	450 0 0 81 267 713 387 77 99 178 1124 7 36	31 0 0 6 18 49 27 5 7 7 12 78 0 0 2	337 0 0 104 134 445 249 98 48 124 706 20 28 48 126 30 16	36 0 0 11 14 44 48 27 11 5 5 13 76 2 2 3	710 513 162 150 121 742 761 195 54 244 1421 44 56	39 28 8 8 7 7 41 42 11 3 3 3 78 2 2 9 9 2	51 46 76 77 11 57 86 125 5 33 179 34 28 17 113 5 6	18 16 16 27 28 4 4 200 201 31 45 64 12 10 6 6 41 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 4 5 4 5 4 5 4 5 6 4 5 6 6 6 6 6 6 6 6 6	p < 0.0
2 3 4 Not Known Srade I (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Freatments ^[4] Surgery only Hormonal therapy Surgery & SACT Surgery & Hormonal therapy	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105 148 p < 0.001 152 467 162 123 511	13 5 9 9 12 44 33 33 11 1 5 3 3 3 10 4 3 3 11 1	450 0 0 81 267 713 387 77 99 178 1124 7 36 46 58 84 22 191	31 0 0 6 118 49 27 5 7 7 12 78 0 2 2	337 0 0 104 134 445 249 98 48 124 706 20 28 48 126 30 16	36 0 0 11 14 48 27 11 5 5 13 76 2 3 3 5 4 4 4 4 3 2 7	710 513 162 150 121 742 761 195 54 244 1421 44 56	39 28 8 9 8 7 7 41 42 11 1 3 3 13 78 2 2 3 3 9 9 9 2 4 4 8 8	51 46 76 77 111 57 86 125 5 33 179 34 28 17 113 5 6	18 16 16 27 28 4 4 20 31 45 2 12 64 12 10 6 6 41 2 2 7 7 7	p < 0.0 p < 0.0 p < 0.0 p < 0.0 p < 0.0 p < 0.0 p < 0.0
2 3 4 Not Known Srade 1 (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined ### Morphology Very Good Good Intermediate Poor or Very poor Not Known Freatments ⁽⁴⁾ Surgery only Hormonal therapy only Surgery & Radiotherapy Surgery & Hormonal therapy Surgery & Sadoitherapy & SACT	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105 148 p < 0.001 152 467 162 123 511 341	13 5 9 9 12 44 43 33 11 5 5 3 3 10 4 4 3 3 11 8 8	450 0 0 81 267 713 387 77 99 178 1124 7 36 46 58 84 22 191	31 0 0 6 18 49 27 5 7 7 12 78 0 0 2 2 3 4 4 6 6 7 12 7 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	337 0 0 104 134 445 249 98 48 124 706 20 28 48 126 30 16 150 40	36 0 0 11 14 48 27 11 5 5 13 76 2 2 3 3 2 14 4 3 2 16 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	710 513 162 150 121 742 761 195 54 244 1421 44 56 41 170 43 79 151 202	39 28 9 8 7 7 41 42 11 3 3 3 78 2 3 3 2 9 9 4 8 8 11	51 46 76 77 11 57 86 125 5 33 179 34 28 17 113 5 6 19 3	18 18 16 16 17 28 24 20 31 145 21 10 6 41 12 2 2 7 11 1	p < 0.0
2 3 4 Not Known Srade 1 (Well differentiated) II (Moderately well differentiated) III (Moderately well differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Treatments ¹⁴ Surgery only Hormonal therapy only Surgery & Radiotherapy Surgery & Radiotherapy Surgery & Radiotherapy & SACT Surgery & SACT & Hormonal therapy	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105 148 p < 0.001 152 467 162 123 511 341 144	13 5 9 9 12 44 43 33 11 1 5 13 10 4 4 3 3 11 1 8 8 3 3 3 3 3 11 8 8 3 3 3	450 0 0 81 267 713 387 77 99 178 1124 7 36	31 0 0 6 18 49 27 5 7 7 12 78 0 0 2 2 3 3 4 6 6	337 0 0 104 134 445 249 98 124 706 20 28 48 126 30 16 150 40 26	36 0 0 11 14 48 27 11 5 5 13 3 3 2 2 16 4 4 3 3	710 513 162 150 121 742 761 195 54 244 1421 44 56	39 28 9 8 7 7 41 42 11 3 3 3 3 2 2 9 2 2 4 8 8 11 15	51 46 76 77 111 57 86 125 5 33 179 34 28 17 113 5 6	18 16 27 28 4 200 311 45 12 12 12 10 6 6 41 2 2 7 7 1 0 0 0 1	p < 0.0 p < 0.0
2 3 4 Not Known Srade 1 (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined ### Morphology Very Good Good Intermediate Poor or Very poor Not Known Freatments ⁽⁴⁾ Surgery only Hormonal therapy only Surgery & Radiotherapy Surgery & Hormonal therapy Surgery & Sadoitherapy & SACT	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105 148 p < 0.001 152 467 162 123 511 341	13 5 9 9 12 44 43 33 11 5 5 3 3 10 4 4 3 3 11 8 8	450 0 0 81 267 713 387 77 99 178 1124 7 36 46 58 84 22 191	31 0 0 6 18 49 27 5 7 7 12 78 0 0 2 2 3 4 4 6 6 7 12 7 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	337 0 0 104 134 445 249 98 48 124 706 20 28 48 126 30 16 150 40	36 0 0 11 14 48 27 11 5 5 13 76 2 2 3 3 2 14 4 3 2 16 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	710 513 162 150 121 742 761 195 54 244 1421 44 56 41 170 43 79 151 202	39 28 9 8 7 7 41 42 11 3 3 3 78 2 3 3 2 9 9 4 8 8 11	51 46 76 77 11 57 86 125 5 33 179 34 28 17 113 5 6 19 3	18 18 16 16 17 28 24 20 31 145 21 10 6 41 12 2 2 7 11 1	p < 0.00 p < 0.00
2 3 4 Not Known Grade 1 (Well differentiated) II (Moderately well differentiated) III (Poorly differentiated) III (Poorly differentiated) Grade not determined Morphology Very Good Good Intermediate Poor or Very poor Not Known Treatmentsi ⁴¹ Surgery only Hormonal therapy only Surgery & SACT Surgery & Radiotherapy Surgery & SACT Surgery & SACT A Hormonal therapy Surgery & SACT A Hormonal	559 238 412 p < 0.001 533 1,957 1,483 495 p < 0.001 206 579 3,430 105 148 p < 0.001 152 467 162 123 511 341 144 1,543	13 5 9 9 12 44 33 33 11 11 11 8 3 3 35 5	450 0 0 81 267 713 387 77 99 178 1124 7 36 46 58 84 22 191 196 30 784	31 0 0 6 189 27 5 7 7 7 12 788 2 2 3 4 4 6 6 2 2 3 3 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	337 0 0 104 134 445 249 98 48 124 706 20 28 48 126 30 30 16 150 40 26 393	36 0 0 11 14 48 27 11 5 5 13 76 2 2 3 3 2 14 4 3 2 2 6 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	710 513 162 150 121 742 761 195 54 244 1421 44 56 41 170 43 79 151 202 87 361	39 28 8 9 8 7 7 41 42 11 1 3 3 13 78 2 2 3 3 2 2 9 9 2 4 4 8 8 11 5 5 20 0	51 46 76 77 111 57 86 125 5 33 179 34 28	18 18 18 16 17 28 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	p < 0.0 p < 0.0

p < 0.001

10 Confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).

21 Age groups shown here do not reflect those in the Breast Screening programme (all women aged between 50 and 70 plus self-referrals for those aged over 70).

22 Due to low numbers in some categories, 'Other and Not Known' include Interval cancer, Other and Not Known.

14 Treatments are reported separately if number receiving that treatment/combination is greater than 100 in either 2007 or 2012. SACT (Systemic Anti-Cancer Therapy) is chemotherapy and/or biological therapy.

2012: Colorectal Cancer

Characteristic	diagnosed	Colorectal cancer cases diagnosed in 2012		Group 1 milar acute e needs)	Outcome (Living with inc healthcare	reased acute e needs)	presence o	a continued of cancer)	Outcome Group 4 (Limited survival)		CHI ² Test
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)		%/(95% CI)	Count/Rate	%/(95% CI)		%/(95% CI)	
Total Cases	3,825		557	15	682	18	1,553	41	1,033	27	
Age Band	400		0.4		4.0						p < 0.00
15 - 44 45 - 54	129 304	3 8	34 54	6 10	19 58	3 9	56 160	4 10	20 32	2	
55 - 64	711	19	141	25		19	344	22	97	9	
65 - 74	1,144	30	181	32	240	35	494	32	229	22	
75 - 84	1,084	28	117	21	191	28	366	24	410	40	
85 - 99	453 p < 0.001	12	30	5	45	7	133	9	245	24	
Average Age (mean)	70.7	(70.3-71.1)	66.5	(65.5-67.6)	69.5	(68.7-70.4)	68.7	(68.1-69.3)	76.6	(75.9-77.3)	
Sex											p = 0.00
Male Female	2,078 1,747 p < 0.001	54 46	288 269	52 48	383 299	56 44	887 666	57 43	520 513	50 50	
Ethnicity	p < 0.001										
White	2,469	65									
Other ethnicity	16	0									
Not Known or refused/not disclosed	1,340	35									
	p < 0.001		[1]		ļ						
Deprivation (SIMD at diagnosis): Crude ra				(0.40)	4.7	(44.00)	22	(00.07)		(0.4.20)	
1 (Most deprived) 2	86 90	(80-93) (84-97)	10 13	(8-12) (11-16)	17 17	(14-20) (14-20)	33 36	(29-37) (32-40)	27 24	(24-30) (21-28)	
3	78	(72-84)	10	(8-13)	14	(12-17)	30	(27-34)	24	(20-27)	
4	91	(85-97)	14	(12-17)	17	(14-20)	39	(35-43)	21	(18-24)	
5 (Least deprived)	83	(77-89)	15	(13-18)	12	(10-14)	36	(32-40)	20	(17-23)	
Deprivation (SIMD at diagnosis): Truncate		R of cases p			24	(20, 40)	74	(62.80)	60	(54.74)	
1 (Most deprived) 2	187 179	(173-201) (167-192)	19 24	(15-24) (20-29)	34 34	(29-40) (28-39)	71 72	(63-80) (64-80)	62 49	(54-71) (43-57)	
3	155	(143-167)	20	(16-24)	28	(23-34)	57	(51-65)	49	(43-57)	
4	169	(157-181)	25	(20-29)	31	(26-36)	71	(63-79)	43	(37-49)	
5 (Least deprived)	161	(149-173)	28	(23-33)	24	(20-30)	69	(61-77)	40	(34-46)	
Urban Rural Indicator: Crude rate of case				(0.10)							
Large Urban Areas Other Urban Areas	80 84	(76-84) (79-89)	11 13	(9-12)	16 13	(14-18)	32 34	(29-35)	22 22	(19-24) (20-25)	
Accessible Small Towns	90	(81-100)	12	(11-15) (9-16)	15	(11-15) (12-20)	35	(31-38) (29-41)	28	(23-33)	
Remote Small Towns	118	(102-136)	15	(9-22)	23	(16-31)	50	(40-62)	31	(23-41)	
Accessible Rural Areas	91	(83-99)	16	(13-20)	14	(11-17)	39	(34-44)	23	(19-27)	
Remote Rural Areas	99	(88-111)	13	(9-18)	20	(15-26)	39	(32-47)	27	(22-34)	
Urban Rural Indicator: Truncated (at 45 yr	s) EASR of cases	per 100.000	population ^[1]								
Large Urban Areas	177	(167-186)	22	(19-25)	35	(31-39)	69	(63-76)	50	(45-56)	
Other Urban Areas	163	(154-174)	24	(21-28)	26	(22-30)	67	(61-73)	47	(41-52)	
Accessible Small Towns	159	(142-177)	20	(15-27)	27	(21-35)	62	(51-73)	49	(40-60)	
Remote Small Towns	202 169	(173-232)	24	(16-35)	40	(27-54)	83 70	(65-102)	55	(40-72)	
Accessible Rural Areas Remote Rural Areas	159	(153-185) (140-178)	28 20	(22-34) (14-28)	26 31	(20-33) (24-40)	60	(60-80) (49-72)	45 47	(37-54) (37-59)	
				(/	ļ	(= : :=/		(/		(/	
Cancer Networks: Crude rate of cases per						(10.10)		/a= .a.			
North of Scotland South-East of Scotland	87 84	(81-92) (79-89)	12 14	(10-15) (12-17)	14 13	(12-16) (11-15)	38 34	(35-42) (31-38)	22 22	(20-25) (19-25)	
West of Scotland	86	(83-91)	11	(10-13)	17	(16-19)	33	(31-36)	25	(22-27)	
Cancer Networks: Truncated (at 45 yrs) E	ASR of cases per		ulation ^[1]								
North of Scotland	164	(153-174)	22	(19-26)	26	(22-30)	71	(65-78)	44	(39-50)	
South-East of Scotland	167	(157-178)	28	(24-32)	27	(23-32)	67	(60-74)	46	(40-51)	
West of Scotland	175	(167-184)	21	(18-24)	34	(31-38)	67	(62-72)	53	(48-57)	
Method of Detection ^[2]											p < 0.00
Clinical presentation	3,017	79	372	67	479	70	1,189	77	977	95	
Incidental finding	92	18 2	160 19	29 3	189 12	28 2	318 40	20 3	29 21	2	
Other and Not Known	20	1	6	1	2	0	6	0	6	1	
	p < 0.001										
Dukes' stage											p < 0.00
A	693	18 24	260	47	276	40 50	133	9	24	2	
B C	909 861	24 23	272 0	49 0		50 0	239 752	15 48	60 109	6 11	
D	825	22	0	0		0	278	18	547	53	
Not Known	537	14	25	4		10	151	10	293	28	
Crado[3]	p < 0.001										
Grade ^[3] I (Well differentiated)	125	3	36	6	36	5	44	3	9	1	p < 0.00
II (Moderately well differentiated)	2,343	61	410	74		77	1,064	69	342	33	
III (Poorly differentiated)	630	16	78	14	70	10	284	18	198	19	
Grade not determined	727	19	33	6	49	7	161	10	484	47	
Morphology	p < 0.001										p < 0.00
Polyp-related	376	10	112	20	115	17	117	8	32	3	
Poor	321	8	42	8	52	8	151	10	76	7	
Not Known	3,128	82	403	72	515	76	1,285	83	925	90	
Freatments ^[4]	p < 0.001										p < 0.00
Surgery only	1,774	46	450	81	512	75	569	37	243	24	p < 0.00
SACT only	171	4	1	0	2	0	73	5	95	9	
Surgery & SACT	746	20	54	10		8	579	37	61	6	
Surgery & Radiotherapy & SACT Other Treatment	230 206	6 5	25 21	4	58 32	9 5	134 92	9 6	13 61	1 6	
No treatment	698	18	6	1	26	4	106	7	560	54	
	p < 0.001				1				i .		1

[|] Confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).

| Due to low numbers in some categories, 'Other and Not Known' include Interval cancer, Other and Not Known

| Four cases were recorded as grade IV (these cases have been recoded to Grade not determined).

| All Treatments are reported separately if number receiving that treatment/combination is greater than 100 in 2007 or 2012. SACT (Systemic Anti-Cancer Therapy) is chemotherapy and/or biological therapy.

2012: Lung Cancer

2012: Lung Cancer	1	1					_				ı
Characteristic	Lung cancer cases diagnosed in 2012		(Living with s	Outcome Group 1 (Living with similar acute healthcare needs)		Outcome Group 2 (Living with increased acute healthcare needs)		Outcome Group 3 (Living with a continued presence of cancer)		Outcome Group 4 (Limited survival)	
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	
Total Cases	5,182		179	3	238	5	1,398	27	3,367	65	
Age Band											p < 0.00
15 - 44	38	1	3	2	4	2	12	1	19	1	
45 - 54	237	5	16	9		5	90	6	120	4	
55 - 64	937	18 34	48	27 37		19 39	290	21 37	553	16	
65 - 74 75 - 84	1,755 1,681	32	67 38	21		27	521 387	28	1,074 1,191	32 35	
85 - 99	534	10	7	4	19	8	98	7	410	12	
	p < 0.001										
Average Age (mean)	72.4	(72.1-72.7)	67.6	(66.0-69.1)	70.7	(69.4-72.0)	70.6	(70.1-71.1)	73.5	(73.2-73.9)	
Sex	0.000	50	0.4		110				4 707	50	p = 0.04
Male Female	2,602 2,580 p = 0.770	50 50	91 88	51 49		47 53	662 736	47 53	1,737 1,630	52 48	
Ethnicity											
White	3,437	66									
Other ethnicity	20	0									
Not Known or refused/not disclosed	1,725	33									
	p < 0.001		. [1]								
Deprivation (SIMD at diagnosis): Crude rate				/4 -	_	17 441	40	(40 54)	400	(115 100)	
1 (Most deprived) 2	183 136	(174-192) (129-144)	6 4	(4-7) (3-6)	9 6	(7-11) (5-8)	46 35	(42-51) (31-39)	122 91	(115-130) (85-97)	
3	112	(105-119)	4	(3-6)		(3-6)	31	(27-35)	72	(67-78)	
4	85	(79-91)	3	(2-5)	3	(2-5)	27	(24-31)	52	(47-57)	
5 (Least deprived)	64	(59-70)	3	(2-4)	4	(3-5)	18	(15-21)	40	(36-45)	
Deprivation (SIMD at diagnosis): Truncated	(at 45 yrs) EAS	R of cases ne	er 100,000 popi	ulation ^[1]							
1 (Most deprived)	403	(383-423)	12	(9-16)	19	(15-24)	101	(91-111)	271	(255-288)	
2	272	(257-288)	8	(6-11)		(9-15)	68	(61-76)	184	(171-197)	
3	226	(212-241)	8	(6-11)		(6-12)	61	(54-68)	148	(137-160)	
4 5 (Least deprived)	167 130	(155-179) (119-141)	6 5	(4-8) (3-7)		(4-8) (5-11)	51 35	(45-58) (30-41)	104 82	(94-114) (73-91)	
			3	(3-7)		(0-11)		(30-41)	02	(73-31)	
Urban Rural Indicator: Crude rate of cases p	per 100,000 pop	ulation ^[1]									
Large Urban Areas	126	(121-131)	5	(4-6)		(5-8)	34	(31-37)	81	(77-85)	
Other Urban Areas Accessible Small Towns	115 115	(109-120) (104-126)	3 4	(2-5)	5 8	(4-6) (5-11)	31 30	(29-35) (25-37)	75 73	(70-80) (64-82)	
Remote Small Towns	126	(104-126)	4		4	(3-11)	36	(28-47)	82	(69-97)	
Accessible Rural Areas	94	(86-102)	3		3		24	(20-28)	64	(57-71)	
Remote Rural Areas	101	(90-113)	4		2		29	(23-36)	66	(57-76)	
Urban Rural Indicator: Truncated (at 45 yrs)	EASD of soons	per 100 000	nonulation ^[1]								
Large Urban Areas	287	(275-300)	population 10	(8-13)	14	(12-17)	76	(70-82)	187	(177-197)	
Other Urban Areas	227	(215-238)	6	(5-8)		(7-12)	61	(55-67)	150	(141-159)	
Accessible Small Towns	214	(194-235)	6	(/	14	(9-20)	55	(45-65)	138	(122-156)	
Remote Small Towns	213	(184-244)	6		6		61	(47-78)	140	(116-165)	
Accessible Rural Areas	177	(162-193)	6		5 4		44 46	(36-52)	122	(109-136)	
Remote Rural Areas	166	(147-186)	6		4		46	(36-56)	110	(94-127)	
Cancer Networks: Crude rate of cases per 1	00,000 population	on ^[1]									
North of Scotland	97	(91-102)	2	(2-3)		(2-4)	27	(24-30)	65	(60-69)	
South-East of Scotland West of Scotland	107	(102-113)	4	(3-6)		(4-6)	28	(25-31)	70	(65-75)	
vvest of Scotland	133	(128-138)	5	(4-6)	7	(6-8)	36	(33-38)	85	(81-89)	
Cancer Networks: Truncated (at 45 yrs) EAS	SR of cases per	100,000 popu	ılation ^[1]								
North of Scotland	185	(174-197)	4	(3-6)	5	(3-7)	50	(45-56)	125	(116-135)	
South-East of Scotland	218	(206-230)	8	(6-10)	10	(8-13)	58	(52-64)	142	(133-152)	
West of Scotland	276	(265-286)	9	(8-11)	14	(12-16)	72	(67-78)	180	(171-189)	
Method of Detection											p < 0.00
Clinical presentation	4,724	91	144	80		86	1,218	87	3,158	94	
Incidental finding	435 23	8 0	32 3	18 2		12 2	175 5	13 0	199 10	6 0	
Other and Not Known	p < 0.001	U	3	2	5	2	5	U	10	Ü	
Stage ^[2]	P < 0.001				 						n . o co
oraye 1	622	12	126	70	156	66	242	17	98	3	p < 0.00
2	313	6	17	9		16	152	11	105	3	
3	963	19	0	0	0	0	438	31	525	16	
4	2,327	45	0	0		0	340	24	1,987	59	
Not Known	957	18	36	20	43	18	226	16	652	19	
	p < 0.001										
Grade I (Well differentiated)	49	1	15	8	8	3	15	1	11	0	p < 0.00
II (Moderately well differentiated)	629	12	51	28		32	283	20	218	6	
III (Poorly differentiated)	804	16	34	19	31	13	241	17	498	15	
IV (Undifferentiated)	85	2	0	0		0	22	2	62	2	
Grade not determined	3,615	70	79	44	121	51	837	60	2,578	77	
	p < 0.001										
Small Cell/Non Small Cell	647	40	_	_	_	_	450		400	,,	p < 0.00
Small cell Other/NK	647 4,535	12 88	3 176	2 98		2 98	156 1,242	11 89	483 2,884	14 86	
Outon/MX	p < 0.001	68	1/0	96	233	98	1,242	69	2,004	80	
Freatments ^[3]	F - 0.001				İ						p < 0.00
Surgery only	486	9	115	64	123	52	202	14	46	1	p < 0.00 p < 0.00
Radiotherapy only	1,075	21	28	16		21	310	22	688	20	p = 0.18
SACT only	481	9	1	1	1	0	151	11	328	10	p < 0.00
	737	14	6	3		3	370	26	354	11	p < 0.00
Radiotherapy & SACT	159	3	12	7	1 0		100	0	24	1	
Other Treatment No treatment	153 2,250	3 43	12 17	7 9		4 21	108 257	8 18	24 1,927	1 57	p < 0.00 p < 0.00

To Confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).

[2] Five cases had no stage recorded (these cases have been recoded to Not Known).

[3] Treatments are reported separately if number receiving that treatment/combination is greater than 100 in 2007 or 2012. SACT (Systemic Anti-Cancer Therapy) is chemotherapy and/or biological therapy.

2012: Prostate Cancer

Characteristic	Prostate cancer cases diagnosed in 2012		Outcome Group 1 (Living with similar acute healthcare needs)		Outcome Group 2 (Living with increased acute healthcare needs)		Outcome Group 3 (Living with a continued presence of cancer)		Outcome Group 4 (Limited survival)		CHI ² Test
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	
Total Cases	3,107		858	28	742	24	1,243	40	264	8	
							,	-			
Age Band 15 - 54	132		64	7	37	5	28	2	3	1	p < 0.00
55 - 64	706	23	269	31	194	26	225	18	18	7	
65 - 74	1,269	41	401	47	333	45	486	39	49	19	
75 - 84	747	24	112	13	149	20	391	31	95	36	
85 - 99	253	8	12	1	29	4	113	9	99	38	
	p < 0.001										
Average Age (mean)	70.9	(70.6-71.3)	66.9	(66.4-67.5)	69.3	(68.7-69.9)	72.7	(72.2-73.2)	80.3	(79.1-81.4)	
Ethnicity											
White	1,575	51									
Other ethnicity	7	0									
Not Known or refused/not disclosed	1,525	49									
	p < 0.001										
Deprivation (SIMD at diagnosis): Crude ra	ate of cases per										
1 (Most deprived)	110	(100-120)	24	(20-29)	27	(22-32)	45	(39-52)	13	(10-17)	
2	138	(128-150)	38	(32-44)	36	(30-42)	53	(47-61)	12	(9-15)	
3	145	(134-156)	39	(34-45)	34	(29-40)	59	(52-67)	12	(9-16)	
4 5 (Least deprived)	165 167	(153-178) (155-180)	42 57	(36-48) (50-65)	39 38	(33-45) (32-44)	70 62	(62-78) (55-70)	15 10	(11-19) (7-13)	
5 (Least deprived)	167	(155-160)	5/	(50-65)	36	(32-44)	62	(55-70)	10	(7-13)	
Deprivation (SIMD at diagnosis): Truncate											
1 (Most deprived)	266	(242-292)	53	(43-64)	61	(50-73)	113	(97-131)	39	(29-50)	
2	304	(280-330)	78	(66-90)	76	(65-89)	119	(104-135)	31	(22-40)	
3	312	(287-337)	77	(66-89)	72	(60-84)	130	(115-147)	33	(24-43)	
5 (Least deprived)	336 348	(311-361) (322-375)	79 110	(68-91) (96-125)	76 75	(64-88) (64-88)	143 136	(127-160) (120-153)	38 27	(29-48) (19-36)	
			110	(30-123)		(04-00)	130	(120-133)		(13-30)	
Urban Rural Indicator: Crude rate of cases											
Large Urban Areas	128	(120-136)	35	(31-39)	34	(30-38)	48	(43-53)	11	(9-14)	
Other Urban Areas	135	(127-145)	39	(35-44)	31	(27-36)	55	(50-61)	10	(8-13)	
Accessible Small Towns	163	(145-183)	52	(42-64)	35	(27-44)	64	(53-77)	12	(8-18)	
Remote Small Towns Accessible Rural Areas	149 189	(123-179) (173-206)	43 48	(29-60) (40-57)	31 44	(20-46) (36-53)	62 81	(46-83) (71-93)	13 16	(12-22)	
Remote Rural Areas	184	(162-207)	43	(33-56)	41	(31-53)	77	(63-93)	22	(15-32)	
				(55 55)		(57 55)		(00 00)		(10 32)	
Urban Rural Indicator: Truncated (at 45 yr											
Large Urban Areas	322	(302-342)	81	(72-90)	83	(73-93)	125	(113-138)	33	(27-41)	
Other Urban Areas	289	(270-309)	77	(68-87)	64	(55-74)	119	(107-132)	29	(22-36)	
Accessible Small Towns	318 261	(282-356)	96 74	(78-117)	66	(50-84)	129	(106-154)	27 23	(17-40)	
Remote Small Towns Accessible Rural Areas	368	(216-312) (335-402)	83	(51-101) (69-99)	53 80	(34-76) (66-96)	112 162	(83-146) (140-186)	23 42	(29-56)	
Remote Rural Areas	315	(277-357)	66	(51-84)	64	(48-81)	134	(109-161)	52	(35-73)	
				(4.4.7)		()		((/	
Cancer Networks: Crude rate of cases per North of Scotland	100,000 popular 153	(143-163)	38	(33-43)	33	(28-38)	67	(60-74)	15	(12-18)	
South-East of Scotland	161	(151-172)	54	(48-60)	37	(32-42)	58	(52-65)	12	(9-15)	
West of Scotland	131	(124-138)	33	(29-37)	34	(31-38)	53	(48-58)	11	(9-13)	
Cancer Networks: Truncated (at 45 yrs) E	ASP of coops por	100 000 pop	ulation[1]								
North of Scotland	315	(294-337)	ulation. 7 72	(63-82)	65	(56-75)	139	(125-154)	39	(31-48)	
South-East of Scotland	347	(325-370)	108	(96-120)	78	(68-89)	130	(116-144)	32	(25-40)	
West of Scotland	294	(278-311)	68	(61-76)	73	(66-82)	122	(111-133)	30	(25-37)	
	ļ										ļ
Method of Detection			 .		0				0		p = 0.08
Clinical presentation	2,865	92 7	784	91 8	686 48	92 6	1,162 70	93	233 29	88	
Incidental finding Other and Not Known	212 30	1	65 9	1	48 8	1	11	1	29	11 1	
Caro, Gra Hot Miowii	p < 0.001	'	3	'	0	'	''	'	2	,	
Gleason score	1										p < 0.00
1 - 6	856	28	409	48	325	44	107	9	15	6	
7	950	31	422	49	337	45	166	13	25	9	
8 - 10	705	23	0	0	0	0	667	54	38	14	
Not Known	596	19	27	3	80	11	303	24	186	70	
	p < 0.001										
Treatments ^[2]	1										p < 0.00
Surgery only	467	15	216	25	155	21	81	7	15	6	
Radiotherapy only	178	6	100	12	50	7	22	2	6	2	
Hormonal therapy	724	23	44	5	84	11	478	38	118	45	
Radiotherapy & Hormonal therapy Other Treatment	786 230	25 7	229 22	27 3	173 22	23 3	361 172	29 14	23 14	9 5	
No treatment	722	23	247	29	258	35	172	14	14 88	33	
140 trodunciil	p < 0.001	23	241	29	230	30	129	10	00	33	P < 0.0

¹⁰ Confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).

[2] Treatments are reported separately if number receiving that treatment/combination is greater than 100 in 2007 or 2012. SACT (Systemic Anti-Cancer Therapy) is chemotherapy and/or biological therapy.

2007: Breast Cancer

2007: Breast Cancer Characteristic	Breast cancer cases diagnosed in 2007		agnosed in 2007 (Living with similar acute healthcare needs)		Outcome (Living with inc healthcare	reased acute e needs)	Outcome (Living with a presence of	a continued of cancer)	Outcome Group 4 (Limited survival)		CHI ² Test
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	
Total Cases	4,020		1,231	31	865	22	1,614	40	310	8	
Age Band											p < 0.00
15 - 44	415	10	87	7	73	8	249	15	6	2	
45 - 54 55 - 64	849 971	21 24	288 380	23 31	184 210	21 24	358 358	22 22	19 23	6 7	
55 - 64 65 - 74	887	24	293	24	196	23	358	21	58	19	
75 - 84	606	15	145	12	136	16	219	14	106	34	
85 - 99	292	7	38	3	66	8	90	6	98	32	
	p < 0.001										
Average Age (mean)	63.1	(62.7-63.6)	61.8	(61.2-62.5)	63.9	(62.9-64.8)	61.0	(60.3-61.7)	77.4	(76.0-78.8)	
						(/		(/			
Ethnicity White	461	11									
Other ethnicity	5	0									
Not Known or refused/not disclosed	3,554	88									
	p < 0.001										
Deprivation (SIMD at diagnosis): Crude rate of cas	es per 100,000 p	opulation[1]									
1 (Most deprived)	152	(141-164)	40	(35-46)	37	(32-43)	59	(52-66)	16	(13-20)	
2	170	(158-182)	50	(43-57)	36	(31-42)	71	(63-79)	13	(10-17)	
3 4	185 186	(172-198) (174-199)	56 63	(49-63) (56-71)	43 37	(37-50) (32-43)	71 72	(63-79) (65-81)	15 13	(11-19) (10-17)	
5 (Least deprived)	200	(187-214)	65	(57-73)	39	(33-45)	85	(77-95)	11	(8-14)	
						(/					
Deprivation (SIMD at diagnosis): Truncated (at 45				(05		/ee - · ·		(07		(n · -· ·	
1 (Most deprived)	277	(255-299)	77	(66-89)	69	(59-81)	99	(87-113) (102-130)	31	(24-39)	
3	291 307	(270-313) (285-330)	89 95	(78-102) (83-108)	62 74	(52-72) (64-86)	116 111	(102-130) (98-125)	25 26	(19-31) (20-33)	
4	311	(289-334)	109	(96-123)	63	(53-74)	114	(101-128)	25	(19-31)	
5 (Least deprived)	341	(318-365)	116	(102-130)	68	(57-79)	137	(122-152)	21	(15-27)	
	141										
Urban Rural Indicator: Crude rate of cases per 100,0		(450 400)		/40 50		/00 45		/FC 75		/4	
Large Urban Areas Other Urban Areas	160 192	(152-168) (182-203)	46 59	(42-51) (54-65)	36 42	(32-40) (38-48)	64 78	(59-70) (71-85)	14 13	(11-17) (10-16)	
Accessible Small Towns	177	(159-197)	59 57	(47-68)	38	(30-48)	68	(57-80)	14	(10-10)	
Remote Small Towns	230	(199-265)	85	(66-107)	50	(36-68)	79	(61-100)	17	(1021)	
Accessible Rural Areas	171	(155-187)	56	(47-66)	31	(25-39)	71	(61-82)	13	(9-18)	
Remote Rural Areas	208	(185-233)	60	(48-75)	42	(32-54)	90	(75-106)	16	(10-24)	
Urban Rural Indicator: Truncated (at 45 yrs) EASR of	4 100	200 nanulation	[1]								
Large Urban Areas	293	(277-310)	88	(79-97)	67	(60-75)	111	(102-122)	27	(22-32)	
Other Urban Areas	327	(308-346)	107	(96-118)	74	(65-83)	123	(111-134)	24	(19-29)	
Accessible Small Towns	286	(256-319)	92	(75-110)	61	(47-76)	107	(89-127)	27	(18-37)	
Remote Small Towns	362	(311-417)	137	(106-172)	78	(55-104)	121	(92-154)	26		
Accessible Rural Areas	282	(255-311)	96	(80-113)	55	(43-68)	106	(89-124)	26	(18-35)	
Remote Rural Areas	308	(272-345)	92	(73-113)	62	(47-80)	129	(106-154)	24	(15-36)	
Cancer Networks: Crude rate of cases per 100,000 p	opulation ^[1]										
North of Scotland	192	(181-204)	60	(54-67)	39	(34-44)	81	(74-89)	12	(9-15)	
South-East of Scotland	175	(165-186)	52	(47-58)	37	(32-42)	72	(65-79)	15	(12-18)	
West of Scotland	172	(165-180)	53	(49-58)	39	(35-43)	66	(61-71)	14	(12-17)	
Cancer Networks: Truncated (at 45 yrs) EASR of cas	es per 100 000 r	onulation ^[1]									
North of Scotland	319	(299-339)	105	(94-116)	67	(58-77)	125	(113-138)	21	(17-27)	
South-East of Scotland	302	(284-322)	95	(84-106)	65	(56-74)	116	(104-128)	27	(22-33)	
West of Scotland	300	(286-315)	95	(87-104)	68	(61-75)	110	(101-119)	27	(23-31)	
Method of Detection ^{[2],[3]}	2,716		675		540	60	4 000	77	050		p < 0.00
Clinical presentation Screening examination	1,157	68 29	675 528	55 43	549 296	63 34	1,239 320	77 20	253 13	82 4	
Incidental finding	99	2	18	1	14	2	34	2	33	11	
Other and Not Known	48	1	10	1	6	1	21	1	11	4	
	p < 0.001										
Stage											p < 0.00
1	1,282	32	676	55	411	48	185	11	10	3	
2	1,377	34	420	34	312	36	606	38	39	13	
3	484	12	0	0	0	0	442	27	42	14	
Not Known	213 664	5 17	0 135	0 11	142	0 16	152 229	9 14	61 158	20 51	
	p < 0.001	"	100	"	'	,0	229	,,,	130	31	
Grade ^[4]											p < 0.00
I (Well differentiated)	458	11	182	15	138	16	126	8	12	4	P < 0.00
II (Moderately well differentiated)	1,656	41	588	48	386	45	618	38	64	21	
III (Poorly differentiated)	1,435	36	377	31	265	31	706	44	87	28	
Grade not determined	471	12	84	7	76	9	164	10	147	47	
	p < 0.001										
Morphology											p < 0.00
Very Good	140	3	59	5	34	4	35	2	12	4	
Good Intermediate	660 2,941	16 73	199 919	16 75	167 623	19 72	250 1,233	15 76	44 166	14 54	
Poor or Very poor	151	4	15	15	21	2	1,233	4	52	17	
Not Known	128	3	39	3	20	2	33	2	36	12	
	p < 0.001										
Treatments ^[5]											p < 0.00
Surgery only	503	13	191	16	152	18	135	8	25	8	p < 0.00
Hormonal therapy only	334	8	50	4	76	9	121	7	87	28	
Surgery & Radiotherapy	92	2	42	3	19	2	28	2	3	1	p = 0.00
Surgery & SACT Surgery & Hormonal therapy	397 522	10 13	90 212	7 17	60 168	7 19	232 138	14 9	15	5	
Surgery & Hormonal therapy Surgery & Radiotherapy & SACT	522 298	13 7	212 85	17	168	19 4	138 166	10	4 10	1	p < 0.00 p < 0.00
	298 216	5	53	4	41	5	116	7	6	2	
Surgery & SACT & Hormonal therapy		19	373	30	212	25	168	10	9	3	
Surgery & SACT & Hormonal therapy Surgery & Radiotherapy & Hormonal	762										
Surgery & SACT & Hormonal therapy Surgery & Radiotherapy & Hormonal Surgery & Radiotherapy & SACT & Hormonal	762 579	14	108	9	75	9	396	25	0	0	p < 0.00
Surgery & Radiotherapy & Hormonal Surgery & Radiotherapy & SACT & Hormonal Other Treatment	579 128	14 3	4	0	4	0	80	5	40	13	p < 0.00
Surgery & Radiotherapy & Hormonal Surgery & Radiotherapy & SACT & Hormonal	579	14									p < 0.00

[|] Dec 0.001 | Providence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).

| Age groups shown here do not reflect those in the Breast Screening programme (all women aged between 50 and 70 plus self-referrals for those aged over 70).

| Due to low numbers in some categories, 'Other and Not Known' include Interval cancer, Other and Not Known.

| One case was recorded as grade IV (it has been recoded to Grade not determined).

| Treatments are reported separately if number receiving that treatment/combination is greater than 100 in either 2007 or 2012. SACT (Systemic Anti-Cancer Therapy) is chemotherapy and/or biological therapy.

2007: Colorectal Cancer

Characteristic	Colorectal cancer cases diagnosed in 2007		healthcare needs)		Outcome Group 2 (Living with increased acute healthcare needs)		Outcome Group 3 (Living with a continued presence of cancer)		Outcome Group 4 (Limited survival)		CHI ² Test
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	
Total Cases	3,618		451	12	658	18	1,496	41	1,013	28	
Age Band											p < 0.00
15 - 44	92	3	13	3	16	2	50	3	13	1	
45 - 54	268	7	33	7	50	8	146	10	39	4	
55 - 64	670	19	107	24	118	18	298	20	147	15	
65 - 74	1,023	28	154	34	193	29	464	31	212	21	
75 - 84	1,168	32	116	26	237	36	419	28	396	39	
85 - 99	397	11	28	6	44	/	119	8	206	20	
	p < 0.001										
Average Age (mean)	71.2	(70.8-71.6)	69.1	(68.0-70.2)	70.8	(69.9-71.6)	69.3	(68.7-69.9)	75.3	(74.6-76.0)	
Sex	4.057	- 4	0.40			50			504	50	p = 0.60
Male Female	1,957 1,661	54 46	246 205	55 45	369 289	56 44	808 688	54 46	534 479	53 47	
i emale	p < 0.001	40	203	40	203	44	000	40	4/3	47	
	p < 0.001										
Ethnicity White	427	12									
Other ethnicity	2	0									
Not Known or refused/not disclosed	3,189	88									
	p < 0.001										
Deprivation (SIMD at diagnosis): Crude ra	•	100 000 popu	ulation ^[1]								
1 (Most deprived)	83	(77-90)	9	(7-11)	14	(11-16)	34	(30-38)	27	(23-31)	
2	90	(84-96)	9	(8-12)	17	(11-16)	37	(33-41)	27	(23-31)	
3	88	(82-94)	11	(8-13)	17	(14-20)	38	(34-42)	23	(20-26)	
4	77	(71-83)	11	(9-13)	15	(12-17)	31	(27-35)	21	(18-24)	
5 (Least deprived)	82	(76-88)	13	(10-15)	14	(12-17)	34	(30-38)	21	(18-24)	
Description (OMED of the Control of	1	00(100								
Deprivation (SIMD at diagnosis): Truncate						(0.5.0-)		(05.00)	<u>.</u> .	(50.70)	
1 (Most deprived) 2	187 182	(173-201)	19 18	(15-24)	31 34	(25-37)	73 75	(65-82)	64 55	(56-73)	
3	182 181	(169-196) (168-195)	18 21	(15-23) (17-25)	34	(28-40) (29-40)	75 76	(67-84) (68-85)	55 50	(48-63) (43-58)	
4	155	(143-167)	21	(17-25)	29	(24-35)	61	(54-69)	44	(37-51)	
5 (Least deprived)	181	(167-195)	27	(22-33)	32	(26-38)	74	(66-84)	48	(40-56)	
				(==/		(== ==)		((,	
Urban Rural Indicator: Crude rate of cases											
Large Urban Areas	77	(73-81)	9	(7-10)	14	(12-16)	33	(30-35)	21	(19-24)	
Other Urban Areas	81	(77-86)	11	(10-13)	13	(11-15)	33	(30-36)	24	(21-27)	
Accessible Small Towns Remote Small Towns	97 114	(88-108) (98-132)	13 13	(9-17)	19 23	(15-24) (16-31)	39 50	(33-46) (39-62)	26 29	(21-32)	
	83	(98-132) (75-91)	10	(0.13)	16	. ,	34	(29-40)	29	(21-39)	
Accessible Rural Areas Remote Rural Areas	105	(94-118)	12	(8-13) (8-17)	21	(13-20) (16-27)	42	(35-50)	30	(18-27) (24-37)	
Temote Rulai Aleas	100	(34 770)	12	(0 11)		(1021)	72	(55 55)	50	(24 37)	
Urban Rural Indicator: Truncated (at 45 yr	s) EASR of case	s per 100,00	0 population ^[1]								
Large Urban Areas	174	(164-185)	19	(16-23)	32	(28-36)	72	(66-79)	51	(46-57)	
Other Urban Areas	174	(163-185)	24	(20-28)	27	(22-31)	70	(63-77)	53	(47-60)	
Accessible Small Towns	198	(177-220)	25	(18-32)	41	(31-51)	80	(67-95)	53	(42-64)	
Remote Small Towns	190	(162-220)	22	(1.10.1)	39	(27-53)	83	(65-103)	46	(33-61)	
Accessible Rural Areas	170 183	(153-187) (162-205)	19 20	(14-24)	32 37	(25-39)	69 71	(58-80) (59-85)	51 55	(41-61)	
Remote Rural Areas	103	(102-205)	20	(13-27)	31	(28-47)	/ 1	(59-65)	55	(43-68)	
Cancer Networks: Crude rate of cases per	100,000 popula	tion ^[1]									
North of Scotland	91	(85-97)	12	(10-15)	17	(14-19)	38	(34-42)	24	(21-27)	
South-East of Scotland	84	(79-89)	13	(11-15)	13	(11-15)	35	(31-38)	23	(20-26)	
West of Scotland	80	(76-84)	8	(7-9)	16	(14-17)	33	(31-36)	23	(21-26)	
Cancer Networks: Truncated (at 45 yrs) E/	\SP of cases no	r 100 000 por	ulation ^[1]								
North of Scotland	178	(166-189)	23	(20-28)	33	(28-38)	73	(66-80)	49	(43-56)	
South-East of Scotland	176	(165-188)	26	(22-30)	28	(24-33)	72	(65-79)	50	(44-56)	
West of Scotland	177	(168-187)	17	(14-20)	33	(30-38)	72	(66-78)	55	(49-60)	
					l	· · · · · ·			ļ		
Method of Detection ^[2]		_		_							p < 0.00
Clinical presentation	3,396	94	404	90	617	94	1,423	95	952	94	
Screening Incidental finding	109 66	3 2	33 8	7 2	27 10	4 2	39 26	3 2	10 22	1 2	
Other and Not Known	47	1	6	1	4	1	8	1	29	3	
	p < 0.001	•			· .			[Ü	
Dukes' stage					İ						p < 0.00
A	436	12	154	34	181	28	77	5	24	2	
В	969	27	240	53	360	55	280	19	89	9	
C	870	24	0	0	0	0	726	49	144	14	
D	634	18	0	0	0	0	234	16	400	39	
Not Known	709	20	57	13	117	18	179	12	356	35	
	p < 0.001				ļ						
Grade ^[3]	I										p < 0.00
I (Well differentiated)	102	3	17	4	28	4	39	3	18	2	
II (Moderately well differentiated)	2,221	61	326	72	473	72	1,034	69	388	38	
III (Poorly differentiated)	530	15	44	10	69	10	234	16	183	18	
Grade not determined	765	21	64	14	88	13	189	13	424	42	
	p < 0.001				-						
Morphology	I		_								p < 0.00
Polyp-related	227	6	56	12	83	13	62	4	26	3	
Poor Not Known	264	7	27	6	37	6	136	9	64	6	
Not Known	3,127	86	368	82	538	82	1,298	87	923	91	
[4]	p < 0.001				 		ļ		ļ		
Treatments ^[4]											p < 0.00
Surgery only	1,771	49	365	81	518	79	564	38	324	32	
SACT only Surgery & SACT	162 765	4 21	1 42	0 9	0 49	0 7	74 589	5 39	87 85	9	
Surgery & Radiotherapy & SACT	192	5	17	4	42	6		8	19	2	
Other Treatment	170	5	14	3	20	3	82	5	54	5	
		15	12	3	29	4		5	444	44	
No treatment	558	15	12	3							

[|] p < 0.001 | | | | |
|| Confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).
| In the confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).
| In the confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).
| In the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates where the confidence intervals (CI) are only calculated for rates are only calculated for rates are only calculated for rates are only calculated for rates are only calculated for rates are only calculated for rates are only calculated for rates are only calculated for rates ar

2007: Lung Cancer

Characteristic	Lung cancer cases diagnosed in 2007 Count/Rate %/(95% CI)		Outcome Group 1 (Living with similar acute healthcare needs) Count/Rate %/(95% CI)		Outcome Group 2 (Living with increased acute healthcare needs) Count/Rate %/(95% CI)		Outcome (Living with a presence of Count/Rate	continued	Outcome Group 4 (Limited survival) Cl) Count/Rate %/(95% Cl)		CHI ² Test
Total Cases		%/(95% CI)	Count/Rate	%/(95% CI)	182	%/(95% CI) 4	1,118	%/(95% CI) 23	3,443	%/(95% CI) 70	
	4,884		141	3	102	4	1,118	23	3,443	70	
Age Band 15 - 44	58		5	4	7	4	12	1	34	1	p < 0.00
45 - 54	269	6	15	11	12	7	84	8	158	5	
55 - 64	991	20	41	29	32	18	277	25	641	19	
65 - 74	1,580	32	48	34	67	37	400	36	1,065	31	
75 - 84	1,556	32	29	21	57	31	293	26	1,177	34	
85 - 99	430	9	3	2	7	4	52	5	368	11	
Average Age (mean)	p < 0.001 71.4	(71.1-71.7)	66.3	(64.5-68.1)	69.1	(67.3-70.8)	69.2	(68.6-69.7)	72.5	(72.1-72.8)	
Average Age (mean)	/1.4	(71.1-71.7)	00.3	(04.5-06.1)	09.1	(07.3-70.6)	69.2	(00.0-09.7)	72.5	(12.1-12.0)	
Sex											p = 0.01
Male Female	2,554	52 48	70 71	50 50	81 101	45 55	553 565	49 51	1,850 1,593	54	
remale	2,330 p = 0.001	40	· ' '	30	101	33	363	31	1,595	46	
Fab i a ide .	p = 0.001										
Ethnicity White	398	8									
Other ethnicity	5	0									
Not Known or refused/not disclosed	4,481	92									
	p < 0.001										
Deprivation (SIMD at diagnosis): Crude rate of		,000 populati	ion ^[1]								
1 (Most deprived)	179	(170-188)	5	(3-6)	7	(5-9)	36	(33-41)	131	(123-139)	
2	135	(127-143)	4	(2-5)	6	(4-7)	28	(25-32)	97	(91-104)	
3	108	(101-115)	4	(2-5)	4	(3-5)	26	(23-30)	74	(69-80)	
4 5 (Least deprived)	81 63	(75-87) (58-60)	2 2		2 2	(2-4)	22 16	(19-25)	54 42	(50-60)	
5 (Least deprived)	63	(58-69)	l		2		16	(14-19)	42	(38-47)	
Deprivation (SIMD at diagnosis): Truncated (at 45 yrs) EASR	of cases per	100,000 popul	ation ^[1]							
1 (Most deprived)	402	(381-424)	9	(7-13)	15	(12-20)	80	(71-89)	298	(280-317)	
2	279	(262-296)	7	(5-10)	11	(8-14)	56	(49-64)	204	(190-219)	
3	224	(210-239)	8	(5-11)	7	(5-10)	53	(46-61)	156	(144-169)	
4 5 (Least deprived)	169 139	(156-182) (127-152)	4 4		5 4	(3-8)	44 36	(37-50) (30-43)	116 95	(105-127) (85-105)	
					4		30	(30-43)	95	(00-100)	
Urban Rural Indicator: Crude rate of cases pe	er 100,000 popu	ation ^[1]									
Large Urban Areas	125	(119-130)	3	(3-4)	5	(4-7)	27	(25-30)	88	(84-93)	
Other Urban Areas	111	(106-117)	4	(3-5)	4	(3-5)	25	(23-28)	79	(74-84)	
Accessible Small Towns	108	(98-119)	3		4		24	(20-30)	77	(68-86)	
Remote Small Towns	108 89	(93-126)	3		3		25 24	(17-34)	78 60	(65-93)	
Accessible Rural Areas Remote Rural Areas	107	(81-98) (96-120)	3		1		24	(20-28) (21-34)	76	(53-67) (66-87)	
		(00 /20)						(2.0.)		(00 07)	
Urban Rural Indicator: Truncated (at 45 yrs) E											
Large Urban Areas	285	(273-298)	8	(6-10)	12	(9-14)	61	(55-67)	205	(194-216)	
Other Urban Areas	239	(226-252)	7	(5-9)	8	(6-10)	53	(48-60)	171	(160-182)	
Accessible Small Towns	222	(200-245)	5		7		50	(40-61)	159	(141-179)	
Remote Small Towns Accessible Rural Areas	193 183	(165-224) (166-201)	6 5		8		42 46	(30-57) (38-55)	140 126	(116-166) (111-141)	
Remote Rural Areas	189	(167-211)	5		3		44	(34-55)	137	(111-141)	
								(0.700)		(1.10.101)	
Cancer Networks: Crude rate of cases per 100											
North of Scotland	98	(92-104)	3	(2-4)	3	(2-4)	25	(22-28)	68	(63-73)	
South-East of Scotland West of Scotland	106 126	(100-112)	3	(2-4)	5	(3-5)	26 27	(23-29)	74 90	(69-79)	
west of Scotland	126	(121-131)	4	(3-5)	2	(4-6)	21	(24-29)	90	(86-95)	
Cancer Networks: Truncated (at 45 yrs) EASF	R of cases per 1	00,000 popula	ation ^[1]								
North of Scotland	198	(186-211)	5	(3-7)	6	(4-8)	49	(43-55)	139	(129-149)	
South-East of Scotland	227	(215-241)	6	(4-9)	7	(5-10)	54	(48-60)	160	(149-172)	
West of Scotland	275	(263-286)	7	(6-9)	11	(9-13)	56	(51-61)	200	(191-210)	
Method of Detection											p < 0.00
Clinical presentation	4,543	93	127	90	160	88	1,036	93	3,220	94	
Incidental finding	226	5	10	7	19	10	67	6		4	
Other and Not Known	115	2	4	3	3	2	15	1	93	3	
- (2)	p < 0.001										-
Stage ^[2]				_							p < 0.00
1	169	3	42	30	45	25	61	5	21 19	1	
2 3	54 514	1 11	3 0	2	5 0	3 0	27 226	2 20	19 288	1 8	
4	1,398	29	0	0		0	194	17	1,204	35	
Not Known	2,749	56	96	68		73	610	55	1,911	56	
	p < 0.001										ļ
Grade	1										p < 0.00
I (Well differentiated)	68	1	8	6		5	26	2	24	1	
II (Moderately well differentiated)	472	10	39	28		26	159	14	226	7	
III (Poorly differentiated) IV (Undifferentiated)	786	16 2	29 2	21	22	12	217 22	19 2	518 94	15 3	
Grade not determined	119 3,439	70	63	1 45	1 101	1 55	694	62	2,581	3 75	
C. 223 Hot determined	p < 0.001	,,	"	40	101	33	034	02	2,501	75	
Small Cell/Non Small Cell											p < 0.00
Small cell	722	15	13	9	10	5	146	13	553	16	0.00
Other/NK	4,162	85	128	91	172	95	972	87	2,890	84	
	p < 0.001										
Freatments ^[3]											p < 0.00
Surgery only	336	7	70	50	82	45	123	11	61	2	p < 0.00
Radiotherapy only	821	17	23	16	31	17	229	20	538	16	p = 0.00
SACT only	647	13	8	6		3	176	16	458	13	p < 0.00
Radiotherapy & SACT Other Treatment	649 147	13 3	13 11	9	10 7	5 4	303 106	27 9	323 23	9	p < 0.00
No treatment	2,284	3 47	11	8 11	47	26	106	16		1 59	p < 0.00 p < 0.00
	2,204	4/	10	11		20	101	10	2,040	39	1 P ~ U.UL

2007: Prostate Cancer

Characteristic	Prostate cancer cases diagnosed in 2007		Outcome Group 1 (Living with similar acute healthcare needs)		Outcome Group 2 (Living with increased acute healthcare needs)		Outcome Group 3 (Living with a continued presence of cancer)		Outcome Group 4 (Limited survival)		CHI ² Tes
	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	Count/Rate	%/(95% CI)	
otal Cases	2,760		728	26	715	26	1,045	38	272	10	
	,		_				,				
Age Band		•	40				40			_	p < 0.0
15 - 54	96	3 22	42	6 32	31	4	19	2	4	1	
55 - 64	596		230		176	25	170	16	20	7	
65 - 74	1,079	39	310	43	301	42	414	40	54	20	
75 - 84	762	28	139	19	165	23	348	33	110	40	
85 - 99	227	8	7	1	42	6	94	9	84	31	
	p < 0.001										
verage Age (mean)	71.5	(71.1-71.8)	67.6	(67.0-68.2)	70.0	(69.4-70.7)	73.1	(72.5-73.6)	79.4	(78.2-80.5)	
thnicity	405	45									
White	425	15									
Other ethnicity	4	0									
Not Known or refused/not disclosed	2,331 p < 0.001	84									
eprivation (SIMD at diagnosis): Crude											
1 (Most deprived)	111	(101-122)	24	(19-29)	30	(25-36)	46	(39-53)	12	(8-15)	
2	126	(115-137)	25	(21-30)	31	(26-37)	52	(45-60)	17	(13-21)	
3	136	(125-148)	36	(30-42)	37	(32-43)	51	(44-58)	12	(9-16)	
4	147	(135-159)	43	(37-49)	34	(29-40)	55	(48-63)	15	(11-19)	
5 (Least deprived)	150	(139-162)	49	(43-56)	41	(35-48)	50	(43-57)	10	(7-14)	
eprivation (SIMD at diagnosis): Trunca											
1 (Most deprived)	272	(246-299)	53	(43-64)	70	(57-83)	115	(98-133)	35	(25-47)	
2	293	(268-320)	54	(44-64)	70	(58-83)	124	(107-141)	46	(35-58)	
3	316	(289-343)	74	(63-87)	83	(70-97)	120	(104-137)	38	(27-51)	
4	339	(311-368)	88	(75-101)	74	(62-87)	130	(113-148)	48	(35-62)	
5 (Least deprived)	353	(325-383)	105	(91-120)	95	(80-111)	118	(102-135)	35	(25-48)	
Irban Rural Indicator: Crude rate of case	es per 100,000 p	opulation ^[1]									
Large Urban Areas	116	(109-124)	31	(27-35)	27	(24-31)	47	(42-52)	11	(9-14)	
Other Urban Areas	126	(118-135)	31	(27-36)	35	(31-40)	46	(41-52)	14	(11-17)	
Accessible Small Towns	137	(120-155)	37	(29-47)	33	(26-43)	56	(45-68)	10		
Remote Small Towns	192	(162-226)	55	(39-74)	65	(48-86)	53	(38-73)	19		
Accessible Rural Areas	155	(140-172)	46	(38-56)	35	(28-43)	55	(46-65)	19	(14-25)	
Remote Rural Areas	200	(177-225)	48	(37-61)	60	(48-74)	79	(65-95)	13		
Jrban Rural Indicator: Truncated (at 45 y	rs) EASR of cas	es per 100.0	00 population ^[1]								
Large Urban Areas	299	(279-319)	72	(63-82)	69	(60-79)	122	(110-135)	36	(28-44)	
Other Urban Areas	303	(281-326)	67	(58-77)	81	(70-93)	110	(97-124)	45	(35-56)	
Accessible Small Towns	298	(260-338)	74	(57-92)	67	(51-85)	125	(101-151)	33	(/	
Remote Small Towns	373	(313-439)	99	(71-132)	124	(91-163)	106	(75-142)	44		
Accessible Rural Areas	347	(311-385)	90	(74-107)	72	(58-88)	127	(105-149)	58	(41-78)	
Remote Rural Areas	372	(328-420)	82	(63-103)	108	(85-132)	156	(127-189)	27	()	
Cancer Networks: Crude rate of cases pe	r 100,000 popul	ation ^[1]									
North of Scotland	141	(131-151)	34	(30-40)	38	(33-44)	56	(50-63)	12	(10-16)	
South-East of Scotland	151	(141-162)	51	(46-58)	35	(31-41)	50	(44-56)	15	(12-18)	
West of Scotland	120	(113-127)	26	(23-30)	32	(29-36)	49	(44-53)	13	(11-15)	
Cancer Networks: Truncated (at 45 yrs) E											
North of Scotland	319	(296-344)	70	(60-81)	83	(71-95)	130	(115-145)	37	(28-48)	
South-East of Scotland	347	(324-372)	108	(96-121)	80	(69-91)	117	(103-131)	43	(33-53)	
West of Scotland	294	(276-313)	58	(51-65)	76	(67-85)	119	(108-130)	42	(34-51)	
Method of Detection											p < 0.0
Clinical presentation	2,589	94	685	94	677	95	992	95	235	86	
Incidental finding	94	3	26	4	18	3	26	2	24	9	
Other and Not Known	77	3	17	2	20	3	27	3	13	5	
	p < 0.001										
Bleason score			205		257		00		0.4	_	p < 0.0
1 - 6	853	31	385	53		50	90	9	21	8	
7	751	27	305	42	293	41	136	13	17	6	
8 - 10	663	24	0	0		0	607	58	56	21	
Not Known	493 p < 0.001	18	38	5	65	9	212	20	178	65	
reatments ^[2]	p - 0.001										p < 0.
Surgery only	494	18	223	31	159	22	92	9	20	7	p < 0.
Radiotherapy only	151	5	64	9		6	30	3	11	4	p < 0.
Hormonal therapy	617	22	71	10		16	354	34	76	28	
Radiotherapy & Hormonal therapy	407	22 15	108	15		14	173	17	24	28 9	p < 0. p = 0.
Other Treatment	200	7	22	3	24	3	136	13	18	7	p = 0. p < 0.
No treatment	891	32	240	33		37	260	25	123	45	
· · · · · · · · · · · · · · · · · · ·	p < 0.001	32	240	33	200	37	200	20	123	40	P \ U.

¹⁰ Confidence intervals (CI) are only calculated for rates where there are more than 20 cases (as CI estimates are unreliable otherwise).

[2] Treatments are reported separately if number receiving that treatment/combination is greater than 100 in 2007 or 2012. SACT (Systemic Anti-Cancer Therapy) is chemotherapy and/or biological therapy.