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Joe Campo Researcher N. Ireland Cancer Registry/National Cancer Registry

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September 2004

Foreword

I welcome this 2^{nd} All Ireland Cancer Statistics Report and congratulate the authors on its clear style. It provides concrete evidence of the benefits of the NCI, Ireland and N. Ireland Consortium which aims to promote joint programmes of work.

I wish to take this opportunity to commend the Registries on their ongoing collaboration on data harmonisation, data analysis and research which will do much to enhance our understanding of cancer.

This report, the result of several years of collaboration, highlights some areas of success and identifies areas for action to improve cancer outcomes in Ireland. We must take note of its recommendations.

Finally, this proves yet again the importance of cancer registration as one of our most important public health tools.

Dr Henrietta Campbell

Chief Medical Officer, Northern Ireland

I join with my colleague, Dr. Henrietta Campbell, in welcoming the publication of this 2nd All Ireland Cancer Statistics Report. This aspect of the work of the Consortium has proven to be particularly valuable, both in terms of the actual information it gives us in relation to cancer in the island as a whole, and the clear example it provides us of the type of cooperation that lies at the heart of the mission of the Consortium.

The authors of this report deserve our commendation for the excellence of their work which will provide a sound basis for future planning in this most important of public health policy areas.

I look forward to future reports in this series.

Dr Jim Kiely

Chief Medical Officer, Ireland

James Rief

All Ireland cancer statistics Second report

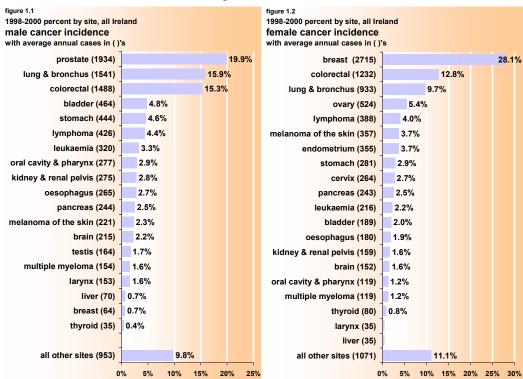
A collaborative report by the Northern Ireland Cancer Registry and the National Cancer Registry (Ireland)

A profile of cancer incidence, mortality and survival for the island of Ireland, 1998-2000

Summary

These are highlights from the second collaborative report produced by the Northern Ireland Cancer Registry and the National Cancer Registry (Ireland). Data from both registries have been merged and integrated to profile and assess the cancer incidence and mortality on the island of Ireland. Most information is based on 1998-2000 data; trends are from 1994 to 2000.

New cancers, 1998–2000 (excluding non-melanoma skin cancer)

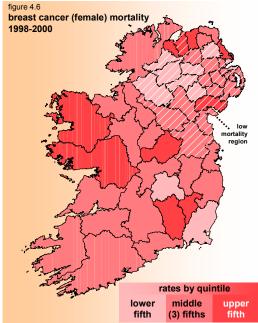


The focus of this report is on cancers that are life-threatening, represent a substantial burden to the general population and can be prevented or cured. These include colorectal, breast, lung, prostate, stomach, and oesophageal cancers, as well as melanoma of the skin. Additionally, all cancer sites combined, all childhood cancers and lymphoma are profiled since these are often a concern to the public, researchers and policy makers.

Each year there are over 19000 new cancer cases and 11000 cancer deaths in Ireland. This excludes 5800 cases of non-melanoma skin cancer, which are rarely life-threatening.

The four commonest cancers — breast, colorectal, lung and prostate —are of the highest concern and the report includes specific recommended actions for these.

The maps below are coloured to show the 20% of counties/district councils with the lowest or highest rates. No statistical significance is implied. The shaded areas show where the incidence or mortality was significantly different from that in Ireland as a whole.



Colorectal cancer – For both sexes combined, colorectal cancer is the leading type of cancer in Ireland, and the second leading cause of cancer-related death.

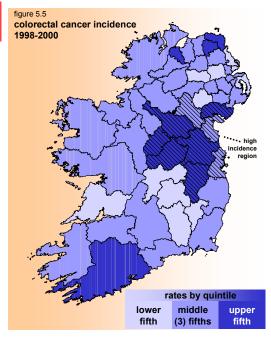
Striking variations by region and by sex exist in Ireland. The eastern seaboard region has significantly more cases than expected. The incidence in men is 1.5 times higher than in women.

Understanding why regional variations exist, and targeting prevention programmes to those regions and populations at highest risk should be a public health priority.

Breast cancer – For women, breast cancer is the leading type of cancer and the leading cause of cancer-related death.

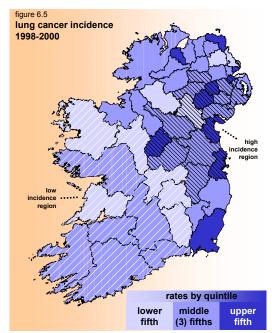
Mammography screening can prevent deaths from breast cancer. Mortality rates in Northern Ireland, where nationally sponsored screening programmes are wellestablished, have fallen by more than 20% between 1994 and 2000. In the Republic of Ireland, breast cancer mortality rates are the same in 2000 as they were in 1994.

Although all the differences between Northern Ireland and the Republic may not be attributable to screening, the findings suggest a need for increased mammography screening services in the Republic of Ireland.



reducing lung cancer deaths.

Lung cancer – The leading cause of cancer death in Ireland is lung cancer. Cigarette smoking is the principal cause of lung cancer.



The nationwide effort in the Republic of Ireland to reduce tobacco use, including a ban on smoking in public places, should profoundly lower the rates of lung cancer. Prevention initiatives need to be instituted island-wide, with an emphasis on urban areas, which have the highest incidence.

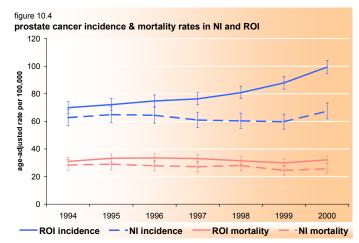
Prevention is the most effective means of

Prostate cancer – The leading type of cancer in men is prostate cancer. The benefits of screening are unclear. Added to this uncertainty is the widespread and growing use of PSA tests. These can detect non-life threatening prostate cancers, but cannot distinguish them from life-threatening ones.

Between 1994 and 2000, the incidence rates in

the Republic of Ireland increased by 33%—with a 22% increase between 1998 and 2000 alone. In Northern Ireland, during that same 1994-2000 period, there was no change in the incidence rate. Why? From 1994 to 2000 the mortality rates in Northern Ireland fell by 12%, but in the Republic of Ireland they have remained unchanged. Why?

Answering these questions has implications for issues as diverse as health care resource utilization, incentives in the health care industry, quality of care, quality of life, and the epidemiology of prostate cancer. They must be explored.



The National Cancer Registry and the Northern Ireland Cancer Registry are the foundations of our understanding of cancer throughout the island. Their collaboration exemplifies the value of partnerships.

A broader coalition of the registries and key medical, advocacy, and public health entities could provide data-driven leadership in reducing cancer incidence, morbidity and mortality through prevention, early detection, treatment, rehabilitation, and palliation. The first steps in building such a coalition have been made through the establishment of the Ireland/Northern Ireland/NCI Cancer Consortium.

The need to develop this coalition may be the highest priority finding of this report.

The full report and this summary are also available on our websites <u>www.qub.ac.uk/nicr</u> <u>www.ncri.ie</u>

Key findings:

1

- Colorectal is the leading type of cancer for both sexes combined. For men only, prostate is the leading type. For women only, breast is the leading cancer.
- Lung cancer is the leading cause of cancer-related death for both sexes combined and for men only. For women, breast cancer is the leading cause of cancer-related death.
- Lung, oesophageal and stomach cancer incidence and mortality rates for men are more than twice those for women. For most other major cancers, with the exception of breast and melanoma of the skin, the incidence and mortality rates for men are significantly higher than those for women.
- Breast, colorectal, lung, lymphoma, oesophageal cancer and melanoma of the skin
 incidence rates for women in Ireland are significantly higher than the rates for women in
 the EU. Oesophageal cancer rates are also higher among women here than in the US.
- Breast, colorectal, lung, lymphoma and oesophageal cancer mortality rates for women in Ireland are significantly higher than those in the EU. Breast, colorectal and oesophageal cancer mortality rates in women here are also higher than in the US, as are the rates of melanoma of the skin and stomach cancer.
- Colorectal and oesophageal cancer incidence rates for men in Ireland are significantly
 higher than the rates in either the EU or the US. The incidence rate for prostate cancer in
 Ireland is also significantly higher than in the EU, and the incidence rate for stomach
 cancer is higher for men in Ireland than in the US.
- Colorectal, oesophageal, and prostate cancer mortality rates for men in Ireland are significantly higher than for men in either the EU or the US. The mortality rate for lymphoma in men in Ireland is higher than the rate in the EU, and the mortality rate for stomach cancer is higher than in the US.
- The incidence rate for lymphoma, breast and lung cancers in women is increasing. For lymphoma, the mortality rate for women is also increasing.
- The incidence rate for men is increasing for lymphoma and prostate cancer.
- Prostate cancer incidence rates in the Republic of Ireland are significantly higher than in Northern Ireland, and are becoming increasingly so over time.
- Regions in the east of Ireland have significantly more breast, colorectal, lung, prostate and stomach cancer cases than expected.
- Regions in the east of Ireland have significantly more lung, melanoma of the skin, oesophageal and stomach cancers deaths than expected.
- For nearly the entire Republic of Ireland the number of prostate cancer deaths is significantly higher than expected.
- For children, cancer incidence and mortality in Ireland is rare, and is not significantly different from either the EU or the US.
- No county, district council or region has significantly more or fewer childhood cancers than expected.

1. Introduction and overview

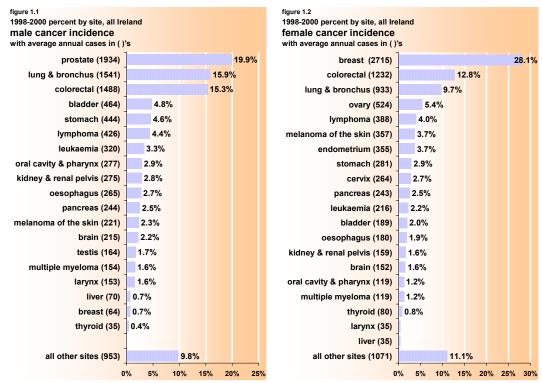
This is the second collaborative report of the Northern Ireland Cancer Registry and the National Cancer Registry (Ireland). As with the first report, *All-Ireland Cancer Statistics* 1994-96, data from both registries have been merged and integrated to profile and assess the cancer incidence and mortality on the island of Ireland as a whole. As an update, the focus of analysis in this report is on data for 1998-2000, although trends are computed from 1994 forward.

Scope and purpose

The reader should note that there have been considerable changes in the design and focus of this report compared to the first. The most substantive of these is the scope. Unlike its predecessor, this report focuses on those major cancer sites that are life-threatening and:

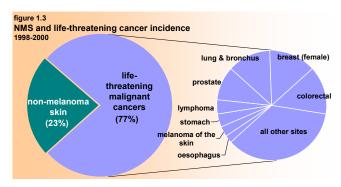
- Represent a substantial burden to the general population and can be prevented or cured. or
- Are of particular interest to the public, researchers and policy makers.

Among the former are colorectal, breast, lung, prostate, stomach, and oesophageal cancers, as well as melanoma of the skin. Among the latter are childhood cancer and lymphoma. Together, these constitute an average of about 12400 cancers per year or approximately 65% of the 19350 average annual total of life-threatening cancer cases.



More than half of all cancer cases come from just three of these sites—two of which are the same for both sexes. For men they are prostate, lung and colorectal cancers. For women, they are breast, colorectal and lung cancers.

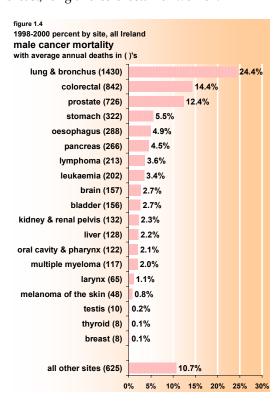
Absent from this report are the non-melanoma skin cancers (NMS). Between 1998 and 2000, these averaged 5832 cases per year, or 23% of all malignant cancers. They are excluded because they are rarely lifethreatening, difficult to collect uniform data on, and, outside of Ireland, rarely monitored. Risk factors, interventions, and

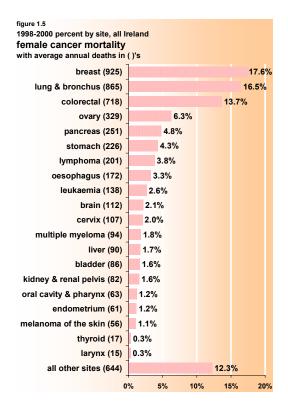


incidence patterns for NMS generally mirror those for melanoma of the skin, which is included in this report.

As with incidence, the major cancer sites focused on in this report also constitute more than 60% of the cancer-related deaths. That is, out of an average of approximately 11100 cancer-related deaths per year, slightly more than 7000 are from lung, colorectal, breast, prostate, stomach and oesophageal cancers plus lymphoma and melanoma of the skin.

Similarly, too, with incidence, the three leading cancer mortality sites for men and women constitute approximately 50% of the cancer-related deaths for each of the sexes. Moreover, they are the same three sites as with incidence: lung, colorectal and prostate for men, and breast, lung and colorectal for women.





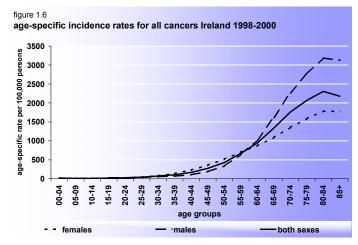
By focusing on these cancers, our intent is to address the concerns of the public—as well as add clarity to the issues which face policy-makers and researchers. By doing so through a collaborative process, our hope is to further existing joint efforts in the Republic of Ireland and Northern Ireland in reducing the burden of cancer throughout Ireland.

The cancer problem

Most people are well aware that cancer is a disease involving the uncontrolled growth and spread of abnormal cells. Less well known is that cancer comprises a highly diverse group of diseases—some preventable, some curable, some medically manageable, and some fatal.

Also seemingly less well known is that the causes of many cancers are equally diverse. Risk factors for breast, prostate and lung cancers, for instance, all differ from each other, with one exception—age.

The risk of cancer increases markedly with age. Agespecific cancer incidence rates for men and women aged 80 to 84 are, for instance, two to

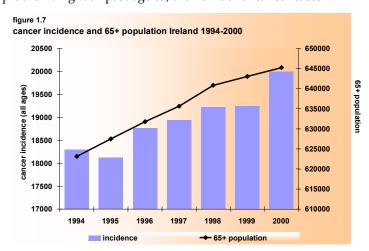


three times higher than the rates for those aged 60 to 64. Rates for men and women aged 60 to 64 are roughly four to ten times higher than those aged 40 to 44.

Given that more and more people are living well past age 65, the number of cancer cases will

assuredly increase. This is readily evident in a simple comparison of the 1994 to 2000 annual population estimates for those aged 65 and older, and total cancer incidence.

Age alone, of course, is not the only cancer risk factor; genetics, for instance, contribute as well. Neither of these, unfortunately, are modifiable.



However, among those risk factors that are modifiable, it is estimated that approximately one-third of all cancers are caused by tobacco; one-third by diet (high fat/low fruit and vegetables); and, most of the remaining third by other life-style choices such as excessive drinking, lack of regular exercise, sexual and reproductive patterns, and frequent sunburns. Occupational exposures account for most of the remaining cancer risk, with the final—and very small—outstanding proportion attributable to toxins in the environment.

This is good news, for it suggests many cancers can be prevented simply through healthy lifestyle choices. Lung, oesophageal and stomach cancers, for instance, are all directly linked to tobacco use; melanoma of the skin, to sun exposure; and, colorectal cancer, to diet and exercise. Moreover, cancers like breast, colorectal and melanoma of the skin, can often be cured if detected early. For these cancers many screening and patient education options exist.

Glossary of terms

Age-adjusted rate: Since age is a major risk factor for cancer, rates are commonly age-adjusted to account for differences in the age composition of district councils, counties, countries or regions being compared. All incidence and mortality rates in this report are age-adjusted to the standard European population, except for childhood cancers which are adjusted to the standard world population.

Confidence intervals, 95% ci: Since two communities rarely have the same incidence or mortality rates, confidence intervals provide a simple means for determining if the differences are more than would be expected by chance alone. As a rule of thumb, if the confidence intervals overlap, then chance alone probably accounts for the difference. If the confidence intervals do not overlap, then the rates are considered to be statistically significantly different—although chance alone could still account for the difference.

Different, significantly different, significant: These terms are only used when the 95% confidence intervals do not overlap or if by some other statistical test the probability that an event happened by chance is less than or equal to 5%.

Eurocare: EUROCARE 3 is a collaborative study among 56 cancer registries in 20 European countries which provides population-based survival data for patients diagnosed between 1990 and 1994.

Incidence, cancer incidence: Terms used to describe the number of new cancer cases diagnosed.

Quintile, upper quintile, lower quintile: The upper and lower quintiles are simply the upper fifth and lower fifth of a rank ordered list of the counties' and district councils' rates. No statistical significance is implied.

Relative survival, 5-year survival rates: The percentage of patients who survive for 5 years or longer after being diagnosed. Differences in the expected life-span of those in older or younger age groups are taken into account.

SEER, SEER regions: The SEER program provides nationwide cancer statistics from 11 regions in the US. Incidence and mortality rates for the US are based upon the data from these regions.

Spatial scan statistic: This statistical test looks at all the possible combinations of adjacent counties and district councils and identifies any grouping of areas that have significantly more or fewer cases or deaths than expected. The methodology and software (SaTScan) was developed under contract for the US National Cancer Institute. (http://www.satscan.org/)

Stage at diagnosis, early stage, late stage: How far a cancer has advanced or developed is often described as its stage at diagnosis. Early stage cancer (stage I or II) can often be more effectively treated than late stage cancer (stage III and IV).

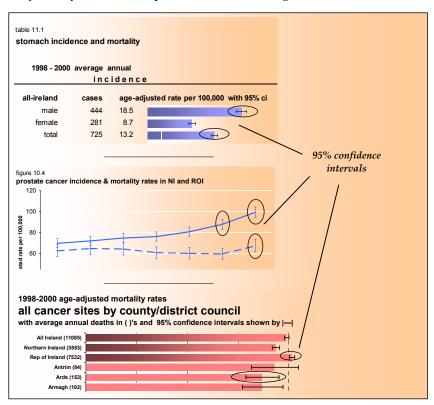
Years of life lost: The rank order of the "years of life lost" for each major cancer site is reported. It is based upon an estimate of the number of years people would have lived had they not died from cancer. The estimate uses the age- and sex-specific life-expectancy table for Ireland.

Guide to the figures and tables

Error bars

Tables and graphs throughout the report will often include error bars around each rate. These represent the 95% confidence intervals for the rate. As previously noted, if the confidence intervals overlap, the differences between the two rates are not statistically significant. Conversely, if they do not overlap, the differences are significant.

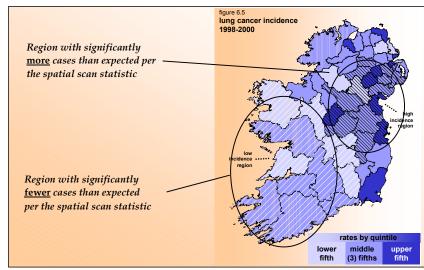
For counties and district councils, rates have not been displayed if there were fewer than 5 cases or deaths in 1998-2000.



Spatial scan statistic

Groups of counties and/or district councils identified through the spatial scan statistic as being significantly different than expected are highlighted on the maps of Ireland. Areas

shaded with white diagonals have fewer cases or deaths than expected; areas with black diagonals have more cases or deaths than expected.



2

All cancer sites combined All cancer sites c

Key findings:

- Cancer is a leading cause of serious illness and death in Ireland.
- *Men have higher incidence and mortality rates than women.*
- Incidence and mortality rates for women are higher in Ireland than in the EU.
- Mortality rates for men and women are higher in Ireland than in the US but incidence rates are lower.
- Forty percent of those diagnosed with cancer are under age 65, as are a quarter of those who die from it.
- *The rate of cancer has not changed appreciably over time.*
- The cancer mortality rate in the Republic of Ireland is significantly higher than in Northern Ireland.
- The northern region has significantly fewer cases than expected.
- Eastern seaboard and urban regions have significantly more cases and deaths than expected.
- The northern and western regions have significantly fewer deaths than expected.
- Differing cancer incidence and mortality rates for men and women, and among areas or regions probably reflect differences in lifestyle choices, health-care system and/or public-health initiatives.

cancer sites combined All cancer sites combi

2. All cancer sites combined

Risks and interventions

- Lifestyle choices especially tobacco use, high-fat/low fruit and vegetable diets, and sporadic and intense sun exposure are known to increase the risk for many of the most common cancers
- Many cancers can be successfully treated, especially if detected early
- Early detection through screening can effectively reduce mortality for some, but not all, cancers

Cancer is a major cause of death in Ireland. More people die from cancer than from heart disease, stroke, respiratory disease, or injuries and poisonings.

Over 19000 new cases of cancer are diagnosed each year, and each year more than 11000 deaths are caused by this disease.

Variation by gender

By and large, the burden of cancer weighs more heavily on men than on women. Specifically, the incidence rate for men is 20% higher than for women. Worse, the mortality rate for men is more than 40% higher.

International comparisons

Nevertheless, for women the incidence and mortality rates in Ireland are significantly higher than in the EU. While for men, they are equivalent to those in the EU.

For both men and women, Ireland's incidence rates are

table 2.1 all cancer sites combined incidence and mortality 1998 - 2000 average annual incidence all-ireland age-adjusted rate per 100,000 with 95% ci cases male 9707 400.6 female 9647 336 7 total 19354 360.1 european union (1998 only) male 412.1 289.9 female total 338.8 united states (11 seer regions) male 504.2 3914 female total 1998 - 2000 average annual all-ireland deaths age-adjusted rate per 100,000 with 95% ci 5842 241.0 male female 5242 168.1 11085 197.9 total european union (1998 only) male 250 1 female 141.2 total 186.5 united states (11 seer regions) 200.6 male female 144.7 total 167.3

lower than the US. However, for both men and women, Ireland's mortality rates are higher.

It is difficult to meaningfully compare overall cancer survival rates between countries.

Cancers with a poor survival, such as lung and stomach, may be more common in some countries, leading to poor overall survival. The rates are shown here primarily to allow for future comparisons.

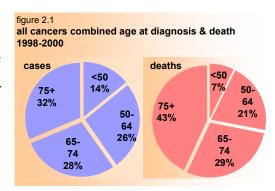
| table 2.2 | | | | |
|--|-----------------|-----------------|--|--|
| all cancer sites combined 5-year relative survival (%) | | | | |
| | male | female | | |
| | rate 95% ci | rate 95% ci | | |
| ireland | 40.5 39.8, 41.1 | 48.7 48.1, 49.3 | | |
| europe (eurocare) | 39.8 39.5, 40.1 | 51.2 50.9, 51.5 | | |
| united states (seer) | 62.3 62.1, 62.6 | 63.5 63.2, 63.7 | | |

Age distribution

Although cancer is generally thought to be a disease of the elderly, a full 40% of those diagnosed with this disease are under age 65.

In fact, half the people diagnosed with cancer are aged 67 or younger.

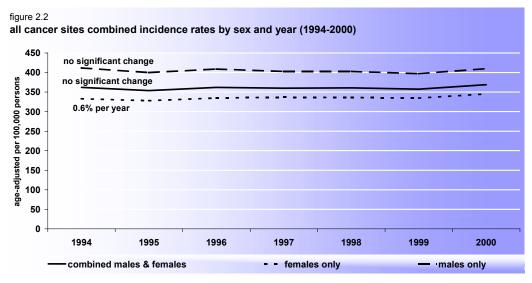
Additionally, more than a quarter of those who die from cancer are under age 65.

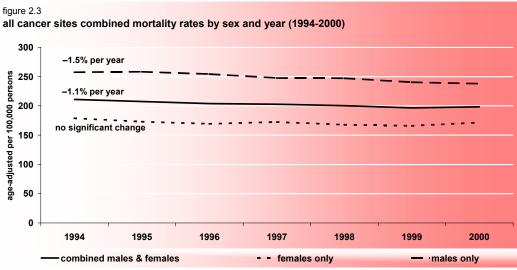


Time trends

The incidence rates have not changed appreciably between 1994 and 2000. For men, and for both sexes combined, the trend is essentially flat. For women, the rate is increasing by less than 1% per year.

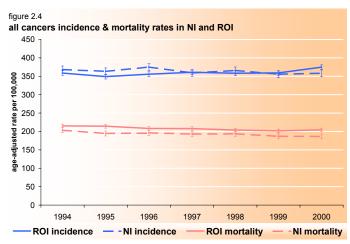
Conversely, mortality rates for men, and for both sexes combined, have been decreasing by between 1% and 1.5% per year. For women, however, the trend is essentially flat.





Geographic variations

The incidence rates in Northern Ireland (NI) and the Republic of Ireland (ROI) are statistically the same for any given year.



There is not a significant change in the incidence rates in NI or ROI over time.

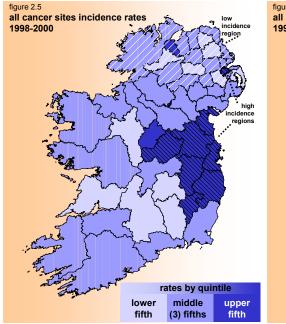
Mortality rates, however, are declining in both NI and ROI. In NI they are decreasing by 1.3% per year; in ROI, by 1% per year.

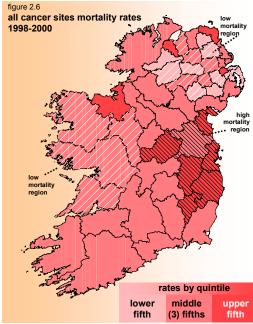
In addition, the mortality rates in NI are significantly lower than those in ROI in 1995, 1997, 1999 and 2000.

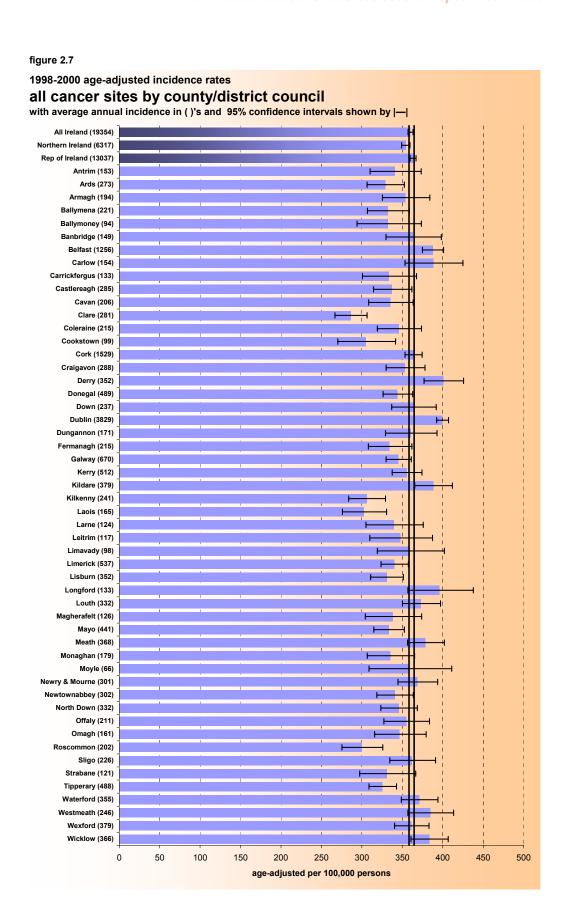
Compared to the all-Ireland incidence rate, Belfast, Derry, Dublin and Kildare have significantly high rates. Compared to the all-Ireland mortality rate, ROI as a whole, Dublin, Kildare, and Belfast have significantly high rates. Northern Ireland, 12 district councils and Clare have significantly low mortality rates. (See figures 2.7 and 2.8)

Counties or district councils in the upper quintile of incidence rates are generally in central east Ireland. Those in the lower quintile are somewhat spread through the island. Counties or district councils in the upper quintile of mortality rates are also mostly in the central east Ireland. Those in the lower quintile are all in the north. (See figures 2.5 and 2.6)

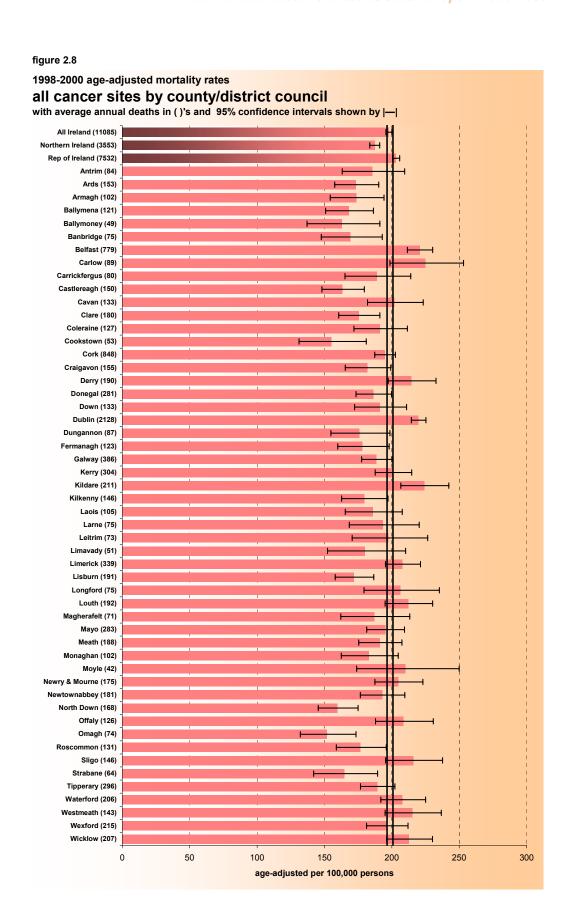
The spatial scan statistic finds that Belfast and the central east region have 8% to 10% more cases than expected. The northern part of Ireland as a whole has 4% fewer cases than expected. The central east region also has 11% more deaths than expected. The northeastern part has 12% to 16% fewer deaths than expected, while the west region has 8% fewer. (See figure 2.5 and 2.6)







14



3

All childhood cancers All childhood

Key findings:

- Cancer in children is rare.
- Leukaemia, lymphoma and brain cancers constitute two-thirds of all cancers in children.
- *Incidence and mortality rates for boys and girls are essentially the same.*
- *Incidence and mortality rates for children in Ireland are the same or lower than in the EU and US.*
- Survival rates in Ireland are the same as in Europe and US.
- The rate of cancer has not appreciably changed over time.
- No differences exist in the geographic distribution of incidence or mortality rates.

Idhood cancers All childhood cancers All chi

3. All childhood cancers

Risks and interventions

- Outside of certain genetic conditions, such as Down's Syndrome, or direct exposure to ionising radiation, such as x-rays, there are few known risk factors for childhood cancers
- Because of the rarity of the disease and the unique needs of the patients, children with cancer should be referred to medical centres with specialists experienced in treating childhood cancers

Cancer in children is rare.
Cancer-related death in children is even rarer.
Nearly four times as many children die from injuries as from cancer.

Nonetheless, cancer in children does occur. In Ireland each year about 155 children are diagnosed, and each year, approximately 28 children die from some form of this disease.

Variation by gender

The incidence and mortality rates (per million children) for boys generally run higher than for girls, although the differences between the two are not statistically significant.

International comparisons

Regardless of gender, the incidence rates in Ireland are the same or lower than the incidence rates in either the EU or the US. Similarly, the mortality rates here are the same or lower than the rates in the EU or the US. This is

all childhood cancers incidence and mortality 1998 - 2000 average annual incidence all-ireland age-adjusted* rate per 1,000,000 with 95% ci cases male 87 144.5 female 68 121.9 total 155 133.5 european union (1996 only) male 157.7 female 127.2 total 142.9 united states (11 seer regions) male 159.2 146.0 female total * per World Standard Population 1998 - 2000 average annual mortality all-ireland deaths age-adjusted* rate per 1,000,000 with 95% ci male 16 26.8 female 12 18.8 total 28 22.9 european union (1996 only) male 37.0 female 30.0 total 33.6 united states (11 seer regions) male 28.5 female 25.7 27 1 total * per World Standard Population

true for boys and girls separately and for both sexes combined

So, too, the 5-year survival rate for all children in Ireland is essentially the same as the US and better than in Europe 1 table 3.2

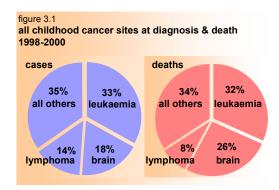
More than 75% of children with cancer in Ireland are alive five years or longer after being diagnosed. Long-term survival is also generally high.

| all childhood cancers 5-year relative survival (%) | | | |
|--|-----------------|------------|--|
| | children (0-14) | | |
| | rate | 95% ci | |
| ireland | 76.7 | 73.7, 79.7 | |
| europe (eurocare) | 71.8 | 70.7, 72.8 | |
| united states (seer) | 76.8 | 75.6, 77.9 | |

Distribution by type

The classification scheme for childhood cancers includes 12 broad categories and 48 sub-categories. Most childhood cancers, however, fall into three major groups: leukaemia, brain cancer, and lymphoma.

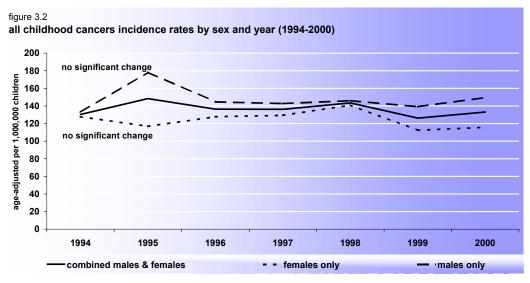
Approximately one-third of all childhood cancers diagnosed are leukaemia, although these are only a small fraction of all leukaemias in the general population. Similarly, about one-third of all childhood

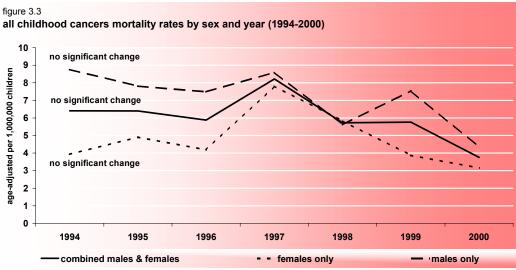


cancer death is caused by leukaemia. Lymphoma and brain cancer together make-up another third of cases and deaths, while all other types constitute the remainder.

Time trends

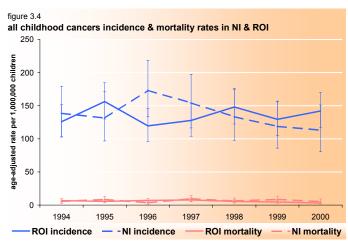
Neither the incidence nor the mortality rates have changed appreciably between 1994 and 2000. That is, the trend for all childhood cancer incidence and mortality—for boys, girls and all children combined—is essentially flat.





Geographic variations

The incidence and mortality rates in Northern Ireland (NI) and the Republic of Ireland (ROI) are statistically the same for any given year.



There is no significant change in the incidence rates in NI or ROI over time.

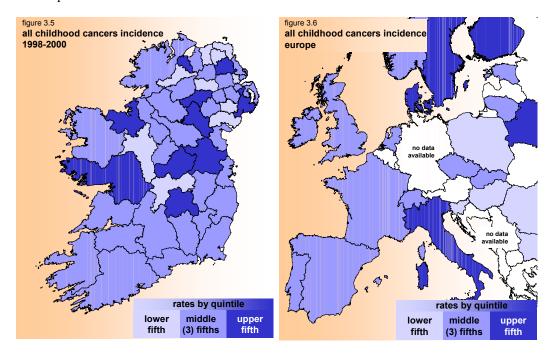
Similarly, there is no significant change in the mortality rates in NI or ROI over time.

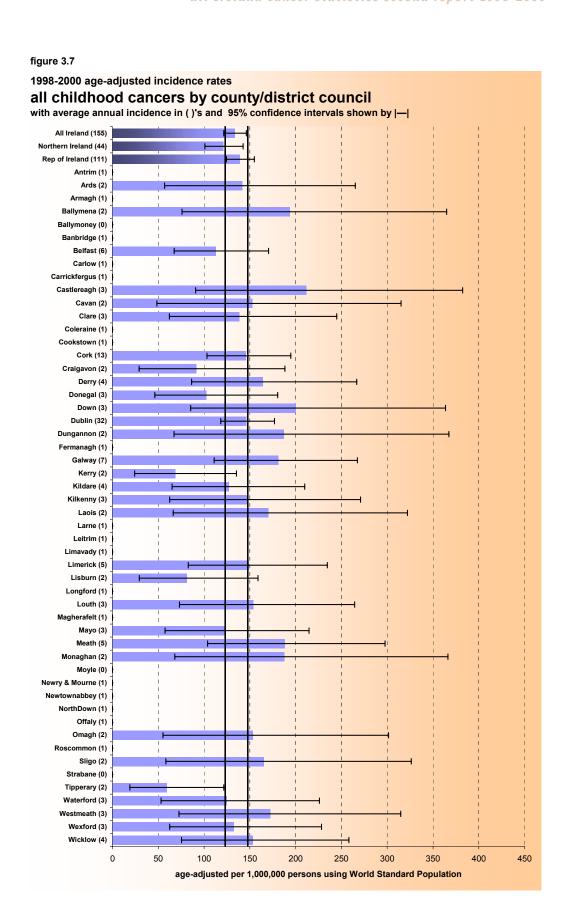
For boys and girls separately, there is no change in their rates over time in either ROI or NI for incidence or mortality.

No county or district council has an incidence rate that is statistically significantly different from the all-Ireland rate. In fact, no county or district council has a rate that is significantly different from any other county or district council. Approximately half the counties/district councils, however, have too few cases to compute a rate. Similarly, for mortality, only Dublin, Belfast and Cork have enough deaths to compute rates; none are significantly high or low. (See figures 3.7 and 3.8)

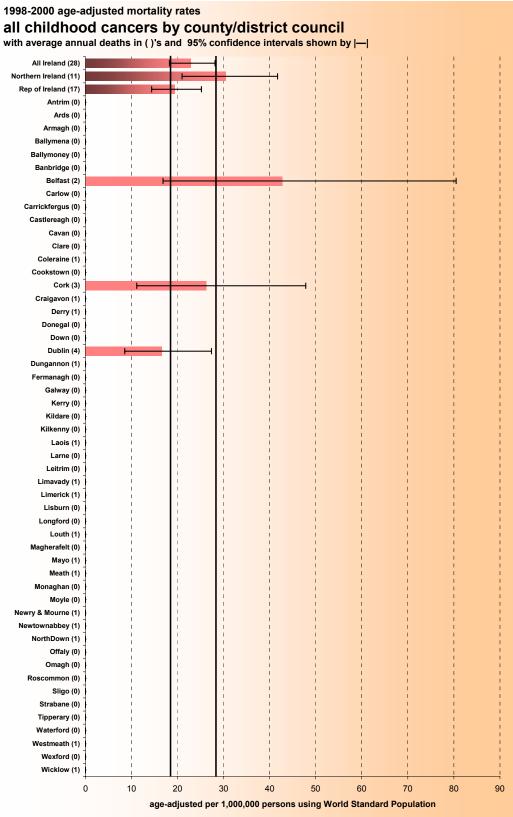
Counties or district councils in the upper quintile of incidence rates appear randomly spread across the island. All those in the lower quintile averaged one or fewer cases per year. Because there are too few deaths to map for Ireland, incidence rates across Europe are shown instead. Ireland's rate fits into the middle quintile. (See figures 3.5 and 3.6)

The spatial scan statistic does not find any region within Ireland with more or fewer cases than expected.











Breast cancer (female) Breast cancer (female)
Breast cancer (female) Breast cancer (female)
Breast cancer (female) Breast cancer (female)

Key findings:

- Breast cancer is the leading cause of cancer and of cancer-related death in women.
- Breast cancer ranks third among cancers in years of life lost. Half of the women diagnosed are aged 58 or younger.
- *Ireland's mortality rate is higher than the EU or US.*
- *Ireland's survival rate is lower than Europe or US.*
- Mortality rates for all Ireland had been declining but have now levelled off.
- The mortality rate for the Republic of Ireland is significantly higher than the rate for all Ireland.
- The mortality rate for Northern Ireland is significantly lower than the rate for all Ireland.
- Regions in the north have significantly fewer cases and deaths than expected.
- Regions in the east have significantly more cases and deaths than expected.
- Established screening programmes in Northern Ireland, and the lack of such programmes until recently in the Republic of Ireland may have contributed to the regional differences observed.

Breast cancer (female) Breast cancer (female)

4. Breast cancer (female)

Risks and interventions

- Increased risk is associated with a first pregnancy late in life or never being pregnant, obesity, and the use of hormone replacement therapy. Exercise and breast-feeding may reduce risk.
- Mammography screening can detect breast cancer early when it can be more effectively treated.
- Breast cancer can often be cured if detected early

For women, breast cancer is first in new cases diagnosed and first in cancer-related death. On average 2700 women a year are diagnosed with this disease, and over 900 die from it.

International comparisons

Ireland's incidence rate is more than 10% higher than the EU rate. It is, however, only 80% of the US rate.

Ireland's mortality rate is 15% higher than the EU rate. It is over 30% higher than the US rate.

Why our incidence and mortality rates are higher than the EU is unclear. High incidence rates are typically associated with intensive screening efforts which can lead to lower mortality rates. Ireland's higher rates for incidence and mortality may be due to our mix of established screening in Northern Ireland, and new or no services elsewhere. Patients' treatment decisions or their quality of care could also play a role, as could

breast cancer (female) incidence and mortality 1998 - 2000 average annual incidence all-ireland cases age-adjusted rate per 100,000 with 95% ci female 2715 102.7 european union (1998 only) female 92.0 united states (11 seer regions) female 132.1 1998 - 2000 average annual mortality all-ireland deaths age-adjusted rate per 100,000 with 95% ci 923 female 32.6 european union (1998 only) female 28.3 united states (11 seer regions) female 24.6

differences in behavioural risks or genetic susceptibility.

Nonetheless, Ireland's low incidence and high mortality rates compared to the US does suggest a need for greater screening efforts. In fact, Ireland's significantly low survival rate may be due to more women being diagnosed

| I | | | | |
|--|------|--------|--------|------------|
| table 4.2 | | | | |
| breast cancer (females) 5-year relative survival (%) | | | | |
| | male | | female | |
| | rate | 95% ci | rate | 95% ci |
| ireland | | | 75.6 | 74.4, 76.8 |
| europe (eurocare) | | | 76.1 | 75.6, 76.6 |
| united states (seer) | | | 86.8 | 86.4, 87.1 |
| | | | | |

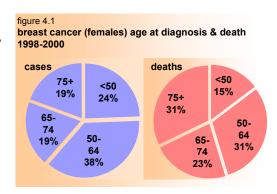
with late-stage disease—when treatments are less effective—because of this lack of screening.

Age distribution

Breast cancer affects middle-aged women more than any other major cancer. Over 60% of the women diagnosed with this disease are under age 65. Half of all women diagnosed are aged 58 or younger.

Breast cancer ranks third among the major sites in years of life lost.

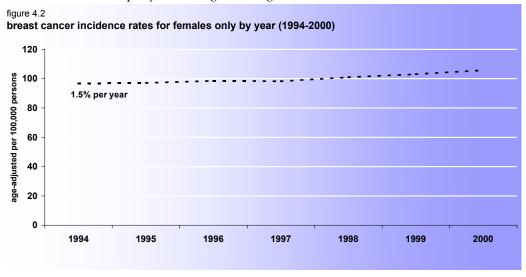
More than 45% of the women who die from breast cancer are under age 65.

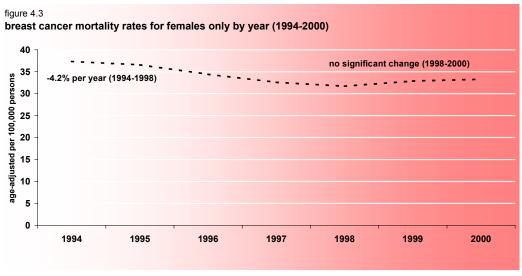


Time trends

Incidence rates for Ireland are increasing by 1.5% per year. Mortality rates had been decreasing by about 4% per year until 1998. They have since levelled off and are now essentially flat.

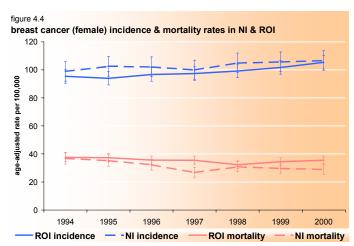
The modest rise in incidence rates, and the levelling off of mortality rates may add to concerns over the adequacy of existing screening efforts.





Geographic variations

For each year between 1994 and 2000 the incidence rates in Northern Ireland (NI) and the Republic of Ireland (ROI) have not differed significantly.



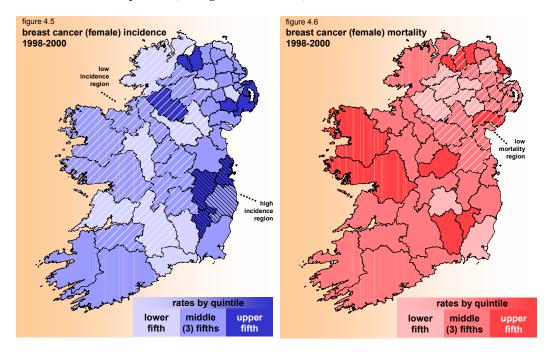
The incidence rates are increasing by about 1% per year in NI, and by about 2% per year in ROI.

In NI the mortality rates are decreasing by 4% per year. In ROI there is no change. While significant in 1997 only, the rates in NI are consistently below those in ROI. The screening programme in NI may contribute to the lower rates.

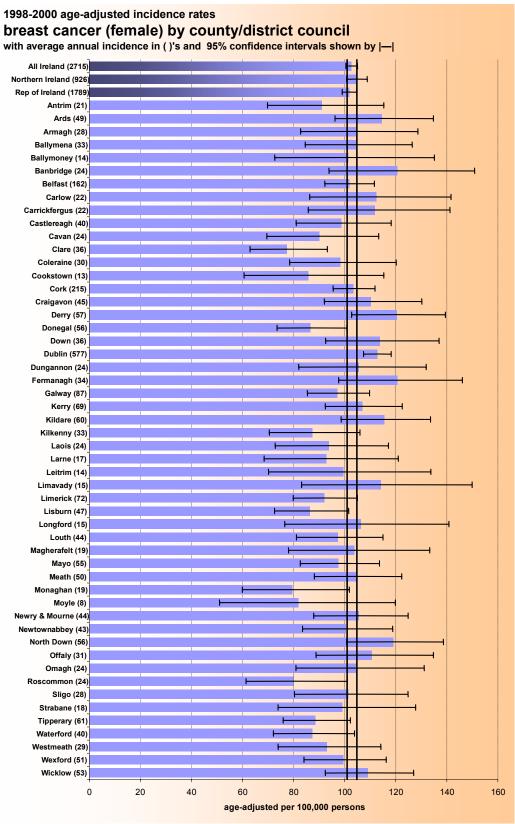
Among the counties and district councils, only Dublin has a significantly high incidence rate. Newly initiated screening services or recent increases in public health screening messages may account for this. No area has a significantly high mortality rate. (See figures 4.7 and 4.8)

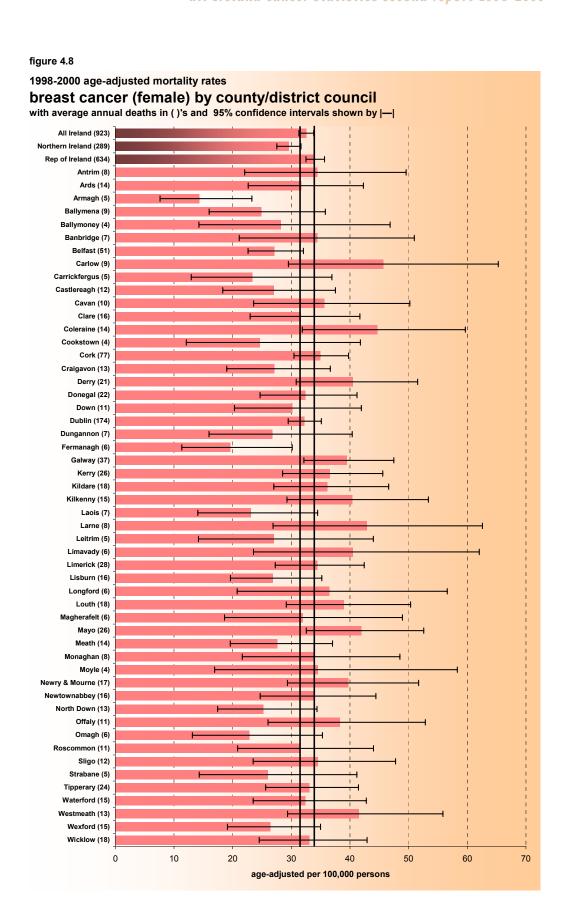
Areas in the lower quintile for incidence rates seem dispersed throughout the island. Areas in the upper quintile are mostly in the east. Conversely, areas in the lower quintile for mortality rates seem highly clustered in the north inland region, whereas areas in the upper quintile seem somewhat dispersed. (See figures 4.5 and 4.6)

For incidence, nearly the entire central and western region is identified by the spatial scan statistic as having 10% fewer cases than expected. The south eastern region is found to have 10% more cases than expected. For deaths, the northeast region is seen to have nearly 12% fewer than expected. No region, however, is identified by the spatial scan statistic as having more deaths than expected. (See figures 4.5 and 4.6)









5

Colorectal cancer Colorectal c

Key findings:

- Colorectal cancer is the leading type of cancer in Ireland.
- Colorectal cancer is the second leading cause of cancer-related death in Ireland.
- *Incidence and mortality rates for men are significantly higher than those for women.*
- Colorectal cancer ranks second among cancers in years of life lost.

 Nearly one-third of those diagnosed are under age 65.
- *Ireland's incidence and mortality rates are significantly higher than in the EU or the US.*
- Ireland's survival rate is significantly lower than in the US.
- *Incidence and mortality rates for all Ireland and Northern Ireland are decreasing. Rates in the Republic of Ireland remain unchanged.*
- The northern region has significantly fewer deaths than expected.
- The eastern seaboard region and the south have significantly more cases and/or significantly higher incidence or mortality rates than expected.
- The magnitude of this disease, and the fact that it is preventable and often curable when caught early, suggest that prevention programmes addressing diet and early detection should be promoted.

Colorectal cancer Colorectal c

5. Colorectal cancer

Risks and interventions

- Regular exercise and low-fat, high-fruit-and-vegetable diets help prevent colorectal cancer.
- If detected early, colorectal cancer can often be cured.
- Various options for detecting early-stage colorectal cancer exist including better patient education and screening

Colorectal cancer is the leading cause of cancer in Ireland. It is the second leading cause of cancer death. Each year approximately 2700 new cases are diagnosed and more than 1500 lives are taken by this disease.

Variation by gender

Although the incidence and mortality rates for men are significantly higher than for women, colorectal cancer is a major concern for both sexes.

For women, it ranks second in new cases diagnosed and third in cancer death. For men it is third in new cases and second in deaths.

International comparisons

The incidence rates for men and women in Ireland are higher than in the EU. Men here also have a significantly higher rate than in the US.

For both sexes the mortality rates in Ireland are significantly higher than in

table 5.1 colorectal incidence and mortality 1998 - 2000 average annual incidence age-adjusted rate per 100,000 with 95% ci all-ireland cases male 1488 61.8 1232 female 40.1 total 2720 49.8 european union (1998 only) male 54.7 female 35.9 total united states (11 seer regions) male 54.1 40.2 female total 1998 - 2000 average annual mortality age-adjusted rate per 100,000 with 95% ci all-ireland deaths male 840 34.8 716 female 21.3 total 1556 27.2 european union (1998 only) male 26.9 17.4 female total 21.4 united states (11 seer regions) male 20.0 female 14.0 total 16.6

the EU or the US. Ireland's overall mortality rate is one and a half times the US rate.

Half the patients diagnosed in Ireland and Europe are still alive after 5 years. So, too, are nearly two-thirds of the US patients. Early diagnosis through active screening may explain the higher US survival rate. Aggressive treatment may also be a factor.

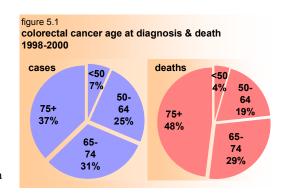
| table 5.2 | | | | |
|--|-----------------|-----------------|--|--|
| colorectal cancer 5-year relative survival (%) | | | | |
| | male | female | | |
| | rate 95% ci | rate 95% ci | | |
| ireland | 49.8 47.9, 51.7 | 50.9 49.2, 52.7 | | |
| europe (eurocare) | 47.6 46.7, 48.4 | 50.5 49.7, 51.3 | | |
| united states (seer) | 62.5 61.7, 63.3 | 62.0 61.2, 62.7 | | |

Age distribution

More than 30% of the cases—or nearly 900 people per year—are under age 65 when they are diagnosed with colorectal cancer. Approximately half the people with colorectal cancer are under age 70.

Colorectal cancer ranks second among the major cancers in terms of years of life lost.

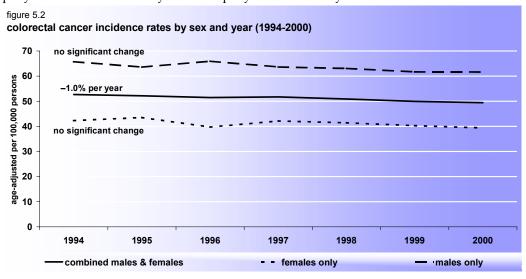
More than a fifth of the people who die from colorectal cancer are under age 65.

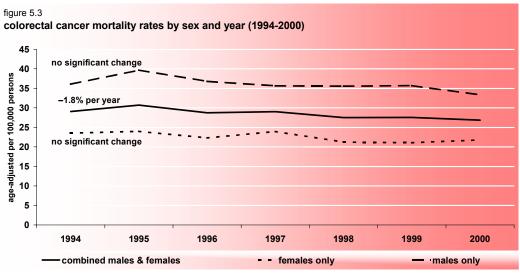


Time trends

Little change is seen in the incidence and mortality rates between 1994 and 2000. For men and women separately there is no significant change in either rate.

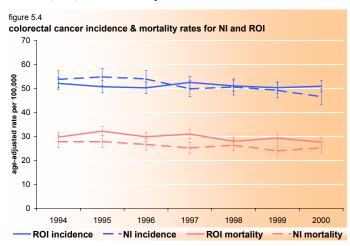
For both sexes combined, however, there is a modest but significant downward trend by 1% per year for incidence and by about 2% per year for mortality.





Geographic variations

For each year individually, the incidence rates in Northern Ireland (NI) and the Republic of Ireland (ROI) are essentially the same.



Over time, there is no change in the incidence rates in ROI. In NI the rates are falling by 2.5% per year.

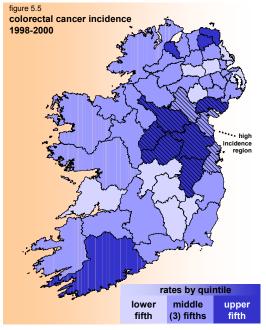
Mortality rates in ROI remain unchanged. In NI, they are going down by 2% per year.

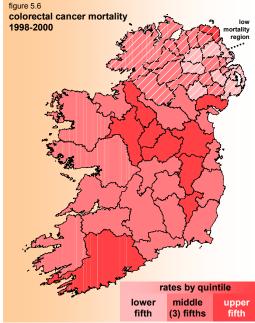
For each individual year the mortality rates in NI are below those in ROI, although the differences are significant in 1997 and 1999 only.

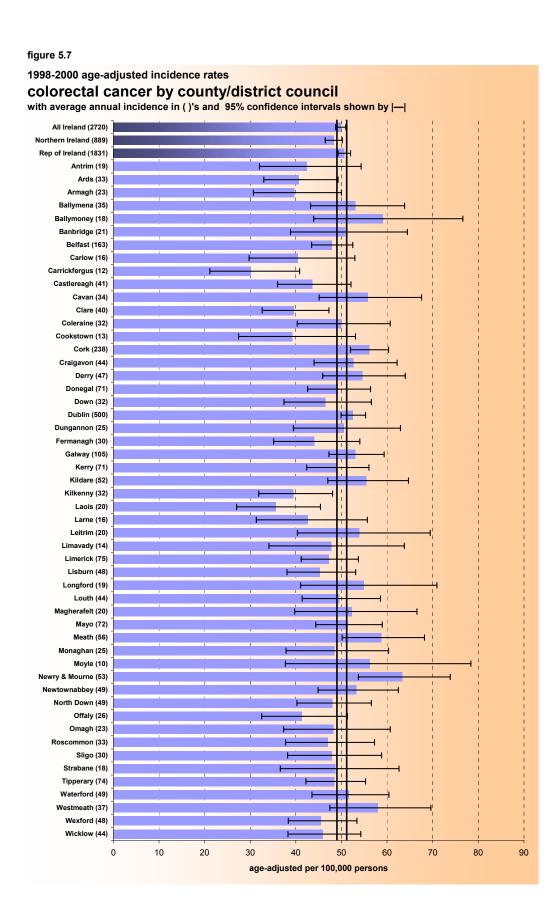
Among the counties and district councils, Cork and Newry & Mourne have significantly high incidence rates. In Carrickfergus, Clare, Kilkenny and Laois the incidence rates are significantly low. Mortality rates in Cork, Kildare and Moyle are significantly high. In Carrickfergus and Cookstown the rates are significantly low. (See figures 5.7 and 5.8)

Counties in the northern midlands of ROI tend to be in the upper quintile for incidence, mortality or both. Cork is also in the upper quintile for both. Counties and district councils in the central region or the north tend to be in the lower quintile for incidence. Many of those in the north are also in the lower quintile for mortality rates. (See figures 5.5 and 5.6)

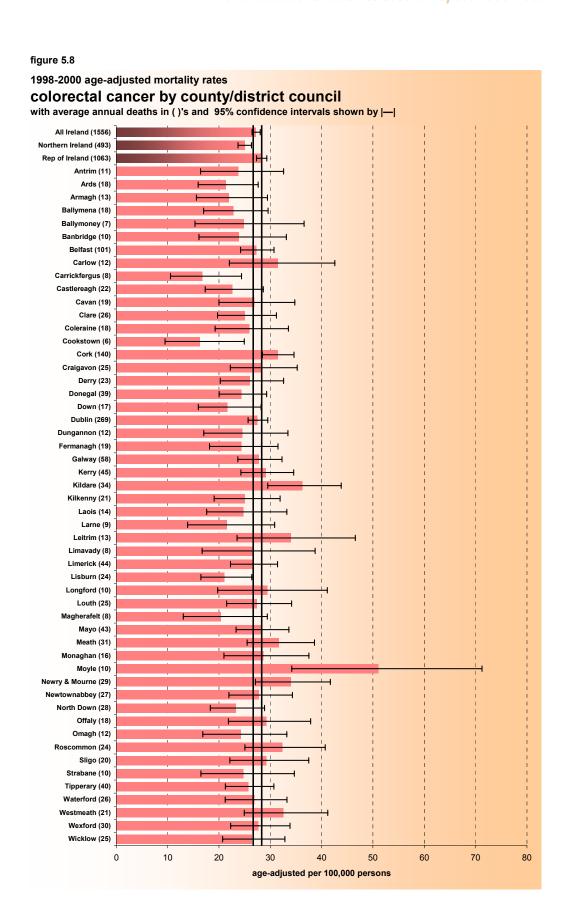
The eastern counties and district councils in figure 5.5 are identified through the spatial scan statistic as a region with 8% more cases than expected. No region was found to have fewer cases or more deaths than expected. However, the northern region is seen to have about 8% fewer deaths than expected. (See figure 5.6)







32



33

Lung cancer Lung c

Key findings:

- Lung cancer is the third leading type of cancer in Ireland.
- Lung cancer is the leading cause of cancer death in Ireland.
- Incidence and mortality rates for men are twice those for women.
- Lung cancer ranks first among cancers in years of life lost. More than 700 of those diagnosed each year are under age 65.
- *Incidence and mortality rates for women in Ireland are nearly twice those in the EU.*
- *Ireland's survival rates are lower than in the US.*
- Incidence rates in all Ireland and the Republic of Ireland are rising for women.
- Incidence rates in all Ireland and Northern Ireland are falling for men.
- The northern, eastern seaboard and urban regions have significantly more cases and deaths, and significantly higher incidence and mortality rates than average.
- Prevention is the most effective means for reducing lung cancer death, and targeting women and high-risk regions should be a priority.

Lung cancer Lung c

6. Lung cancer

Risks and interventions

- Tobacco exposure, particularly cigarette smoking, is the primary cause of lung cancer.
- Smoking prevention and cessation reduces deaths.
- Surgery may prolong life for some lung cancer patients.

Lung (and bronchus) cancer is the leading cause of cancer death in Ireland. Nearly 2300 people die from this disease each year.

Lung cancer ranks third in new cases diagnosed. Close to 7 people a day, about 2500 per year, are diagnosed with this disease.

Variation by gender

The incidence and mortality rates for men are more than twice those for women.

Nonetheless, for women lung cancer is the second leading cause of cancer death, and third in new cases diagnosed. For men it is the leading cause of cancer death, and second in new cases.

The incidence and mortality rates for lung cancer are high for both sexes.

International comparisons

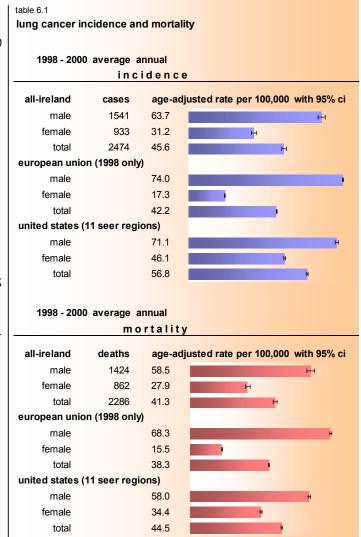
The incidence and mortality rates for men in Ireland are lower than in the EU. For women, however, the rates in Ireland are nearly twice as

Survival rates in Ireland are lower than in the US for both sexes and lower than Europe for men, possibly be due to less active investigation and

in the US for both men and women.

Age distribution

treatment of lung cancer.



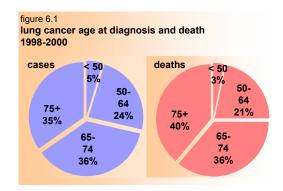
high as in the EU. Ireland's incidence and mortality rates are lower or essentially the same as

table 6.2

Three out of 10 people diagnosed with lung cancer—more than 700 people per year—are under age 65. Half are under age 70.

Lung cancer ranks first among cancers in years of life lost.

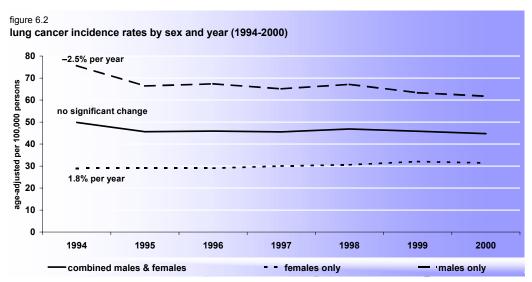
Almost a quarter of all lung cancer deaths occur among people under age 65.

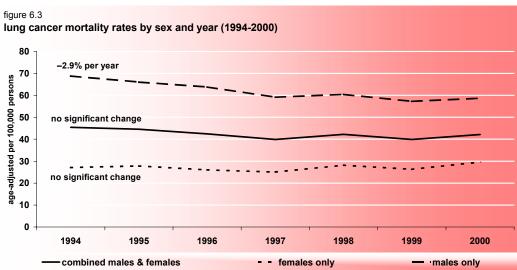


Time trends

Among men there is a significant decline in the rates of lung cancer. For incidence, the rates are falling by 2.5% per year. For mortality, they are falling by about 3% per year.

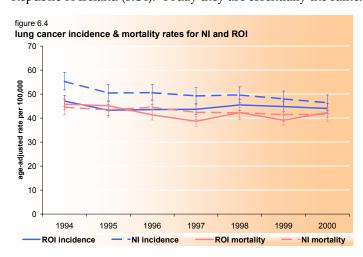
Incidence rates in women are increasing by nearly 2% per year. Their mortality rates have not changed. However, given the rising trend in incidence rates, and the fatal nature of the disease, a significant increase in their death rates is likely to occur.





Geographic variations

Prior to 1997 the incidence rates in Northern Ireland (NI) were significantly higher than in the Republic of Ireland (ROI). Today they are essentially the same. This convergence is due to



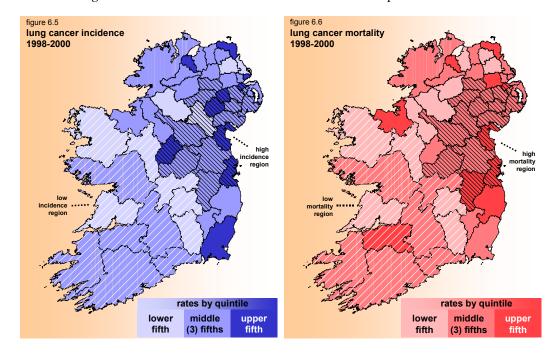
the rates falling by about 2% per year in NI, whilst remaining unchanged in ROI. Differences in sex-specific trends generally account for this. Although not shown in figure 6.4, men's incidence rates in NI are falling by 4% per year; women's are rising by 2% per year in ROI.

Mortality rates are also falling in NI, but only by 1% per year. No change is seen in ROI.

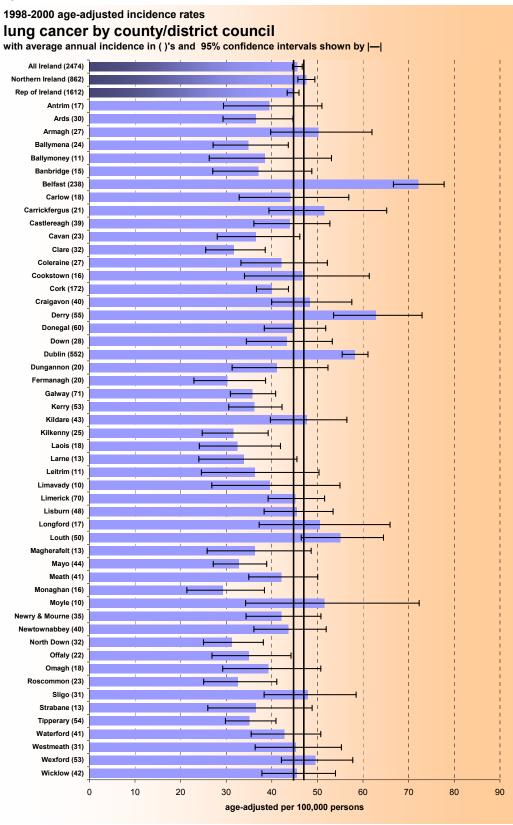
Among the counties and district councils, only Belfast, Derry and Dublin have significantly high rates—for both incidence and mortality. This is consistent with previous reports and potentially reflects higher tobacco use common to low-income groups in inner city areas. About a dozen counties or district councils have significantly low rates, with ten having both low incidence and low mortality rates. (See figures 6.7 and 6.8)

Consistent with the findings above for both incidence and mortality rates, figures 6.5 and 6.6 generally indicate that the lowest quintiles are in the central and western counties and district councils, whilst the highest are in the eastern and northern areas.

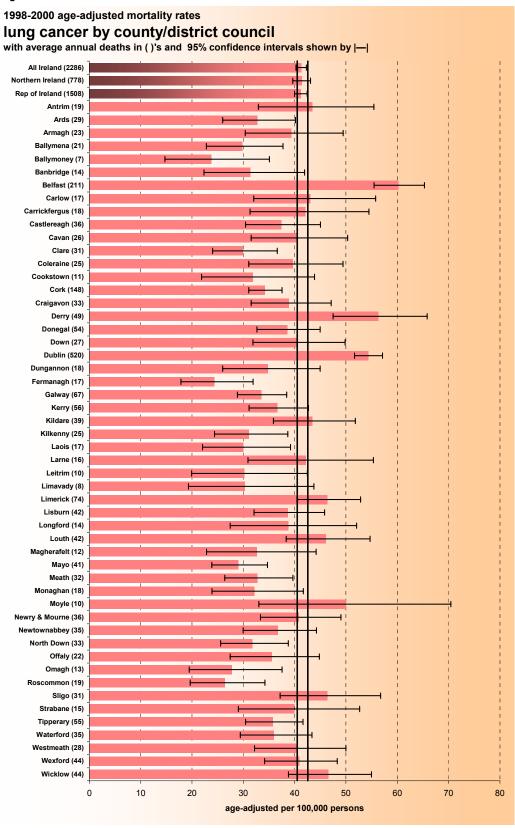
The spatial scan statistic shows an Ireland clearly divided by this disease. The northeast regions in figures 6.5 and 6.6 have about 20% more cases and deaths than expected. The southwest regions have about 20% fewer cases and deaths than expected.











Lymphoma Lym

Key findings:

- Lymphoma ranks fifth among the major cancer sites in new cases diagnosed, and eighth in cancer-related death.
- *Incidence and mortality rates for men are* 25% to 33% higher than *for women. The differences are statistically significant.*
- Lymphoma ranks fourth among cancers in years of life lost. Half those diagnosed are under age 62.
- *Ireland's female, and total, incidence rates are higher than in the EU.*
- *Ireland's mortality rates are higher than in the EU*.
- *Incidence rates for all Ireland are increasing for men and for both sexes combined.*
- Mortality rates for all Ireland are increasing for women.
- *Incidence rates in Northern Ireland are for some years significantly higher than in the Republic of Ireland.*
- Incidence rates in the Republic of Ireland are increasing while those in Northern Ireland remain unchanged.
- No region is found to have significantly more cases or deaths than expected.
- *Increasing incidence and mortality rates warrant further study.*

Inphoma Lymphoma Lymp

7. Lymphoma

Risks and interventions

- Causes of lymphoma are not well understood although viruses, particularly Epstein-Barr, appear to play a role, and individuals with compromised immune systems are at higher risk.
- Occupational exposure to chemicals may also be a risk factor.
- Because lymphomas comprise a broad array of differing sub-types, treatments and their efficacy vary.

Lymphomas, which are of many types, but often categorized as Hodgkin's and non-Hodgkin's, rank fifth among the major cancers in new cases diagnosed, and eighth in the number of cancer deaths.

On average, over 800 individuals are diagnosed with lymphoma each year. About half that number die from it annually.

Variation by gender

Incidence and mortality rates for men are between 25% and 33% higher than the rates for women.

For women, however, lymphoma ranks fifth in incidence and seventh in death rates relative to the other major cancer sites; for men it is sixth and eighth.

International comparisons

Compared to the EU, incidence and mortality rates for women are significantly higher. For men, incidence rates are similar, whilst

lymphoma incidence and mortality 1998 - 2000 average annual incidence age-adjusted rate per 100,000 with 95% ci all-ireland cases male 426 17.2 female 388 13.6 814 15.4 european union (1998 only) male 16.7 female 10.9 total 13.6 united states (11 seer regions) male 16.7 female 20.0 total 1998 - 2000 average annual mortality age-adjusted rate per 100,000 with 95% ci all-ireland deaths male 212 8.8 female 200 6.6 total 7.6 european union (1998 only) male 7 1 female 4.6 total 5.7 united states (11 seer regions) male 9.4 female 6.0 total 7.5

mortality rates are higher. Ireland's rates are lower or about the same as in the US.

Since this cancer includes subtypes with different survival, comparisons of survival rates can be affected by differences in the proportion of each type. Nonetheless, survival rates in Ireland are similar to those in the EU, but lower than in the US.

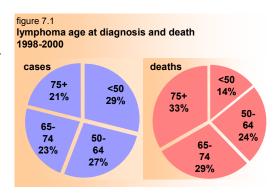
| lymphoma 5-year relative survival (%) | | | |
|---------------------------------------|--|--|--|
| male | female | | |
| rate 95% ci | rate 95% ci | | |
| 51.4 48.2, 54.7 | 58.1 55.4, 60.9 | | |
| 52.3 50.9, 53.7 | 57.8 56.3, 59.3 | | |
| 57.7 56.7, 58.6 | 64.8 63.7, 65.8 | | |
| | male rate 95% ci 51.4 48.2, 54.7 52.3 50.9, 53.7 | | |

Age distribution

While lymphomas affect children more than do the other major cancers, only 3% of the cases are under age 15. About 55% are under age 65, and half are under age 62.

Lymphoma ranks fourth among the major cancers in terms of years of life lost.

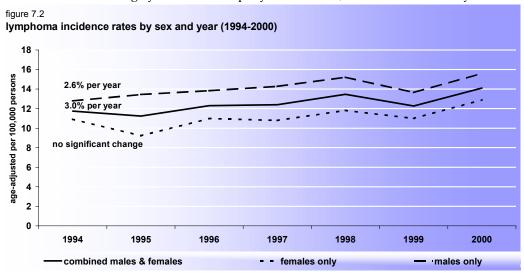
Nearly 40% of the people who die from lymphoma are under age 65.

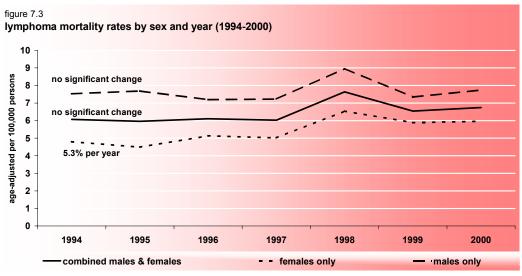


Time trends

For incidence, men's rates are increasing on average by 2.6% per year. Women's rates are generally moving in an upward direction, but the trend is not significant. The combined rates for men and women are increasing by 3% per year.

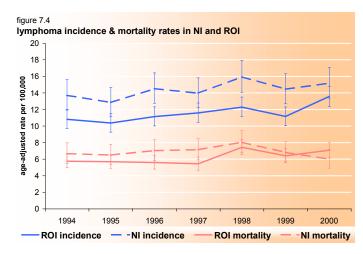
The increasing death rate for women is significant—and somewhat substantial. On average their rates are increasing by more than 5% per year. For men, the trend is essentially flat.





Geographic variations

Year to year, the incidence rates in Northern Ireland (NI) are consistently above the rates in the Republic of Ireland (ROI). For 1996, 1998 and 1999 those differences are significant.



This gap between NI and ROI may be narrowing since the trend in incidence rates in NI is flat while it rising 3.5% per year in ROI.

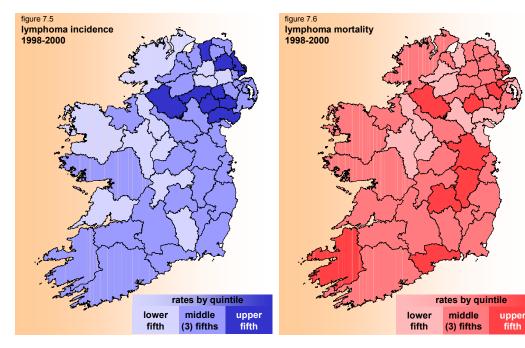
For mortality, there is no significant difference between the NI and ROI annual rates.

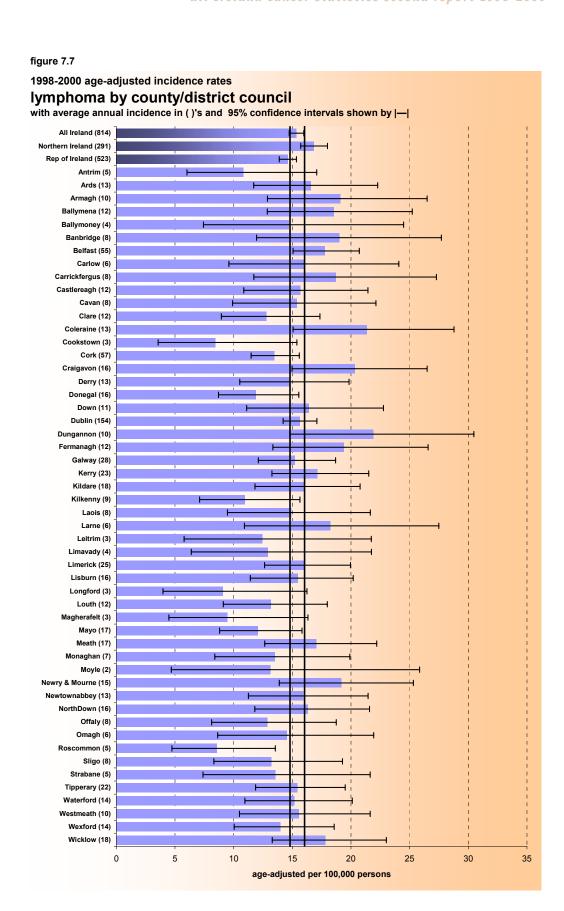
So, too, the mortality rate trends for NI and ROI are essentially flat.

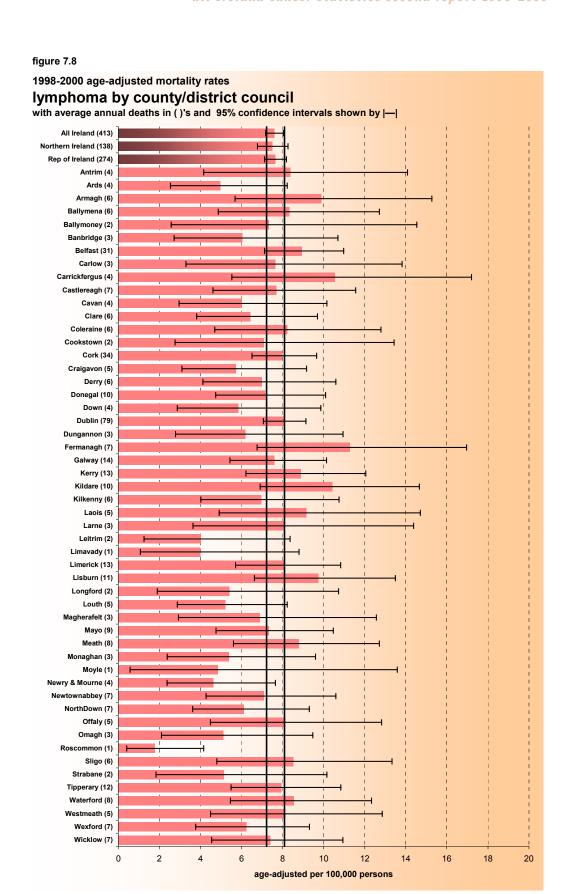
Because of a potential link between lymphoma and certain chemicals, concerns about lymphoma clusters are not uncommon. Among the counties and district councils, however, only one area, Roscommon, had a rate significantly different from the all Ireland rate. For both incidence and mortality, the rates in Roscommon are significantly *lower* than the all Ireland rate. (See figures 7.7 and 7.8)

In ranking the counties and district councils by their incidence rates, those areas in the upper quintile appear to be grouped in the northeast, whilst those in the lower quintile seem randomly dispersed. For mortality rates, counties and district councils in either the upper or lower quintiles show no apparent regional grouping. (See figures 9.5 and 9.6)

Despite the apparent grouping in the northeast of areas in the upper quintile of incidence rates, the spatial scan statistic does not identify any region as having either more or fewer cases or deaths than expected.







Melanoma of the skin Melanoma

Key findings:

- Melanoma of the skin ranks eighth among the major cancers in new cases diagnosed and eighteenth in cancer-related death.
- The incidence rate for women is significantly higher than that for men.
- Melanoma of the skin ranks eighteenth among cancers in years of life lost, and more than a third of those diagnosedare under age 50.
- *Ireland's female, and total, incidence rates are significantly higher than those in the EU*.
- Survival rates for men in Ireland, Europe and the US are significantly lower than those for women.
- Incidence and mortality rate trends for men and women in all Ireland, for the Republic of Ireland and for Northern Ireland are essentially flat.
- The central eastern seaboard region has significantly more deaths than expected.
- The high incidence rates among women and low survival rates among men point toward the need for increased education about the risks of ultraviolet light exposure and the importance of checking for early signs.

Melanoma of the skin Melanoma

8. Melanoma of the skin

Risks and interventions

- Frequent sunburns, especially in childhood and adolescence, increases the risk for melanoma of the skin.
- Individuals with fair skin, red hair and freckles appear to be at greatest risk.
- If detected early, melanoma of the skin can often be cured.
- Surgery is an effective treatment for early stage melanoma of the skin.

Melanoma of the skin ranks eighth among the major cancer sites in terms of new cases diagnosed each year, and eighteenth in terms of cancer related death.

Nonetheless, each year nearly 600 new cases are diagnosed and over 100 individuals die from it.

Variation by gender

Unlike most cancers, the incidence rate among women is significantly higher than the rate for men. Mortality rates for men and women are essentially the same.

For women, melanoma of the skin ranks sixth in new cases diagnosed; for men it is twelfth. For women it is eighteenth in terms of cancerrelated death; for men, sixteenth.

International comparisons

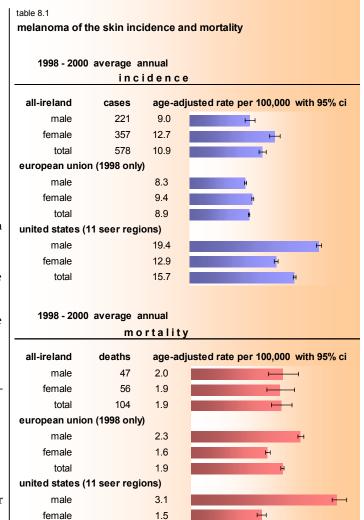
Incidence among women is higher than the EU and the same as the US. Mortality for women is higher in Ireland than in the US while incidence and mortality rates

for men in Ireland are lower than in the US.

total

table 8.2

Survival rates for melanoma of the skin are high. Among women in Ireland, 90% are still alive after 5 years; better than Europe and the same as the US. Among men, the rate is lower, around 80%; about the same as the EU but lower than the US.



2.2

melanoma of the skin 5-year relative survival (%)

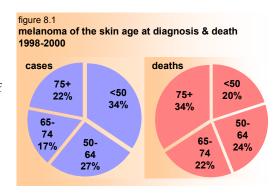
male

female

Age distribution

While melanoma is rare among young people, a large proportion of people diagnosed with melanoma of the skin are young: more than a third are under age 50, and nearly two-thirds are under age 65. Half are under age 57.

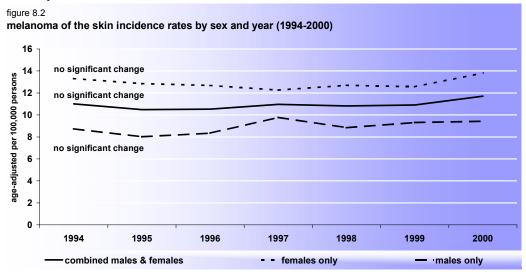
But since survival rates are relatively high, melanoma of the skin ranks eighteenth among major sites in terms of years of life lost to cancer.

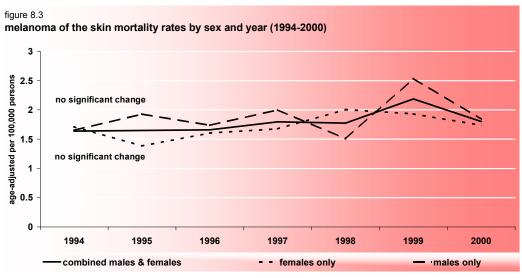


Nonetheless, approximately 44% of the people who die from melanoma of the skin are under age 65.

Time trends

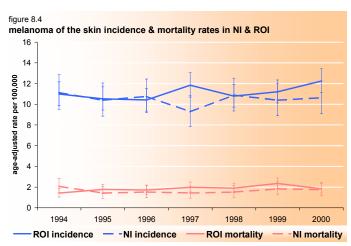
No significant change is seen in the male, female or combined rates for either incidence or mortality.





Geographic variations

Incidence rates in Northern Ireland (NI) and the Republic of Ireland (ROI) are essentially the same for each individual year.



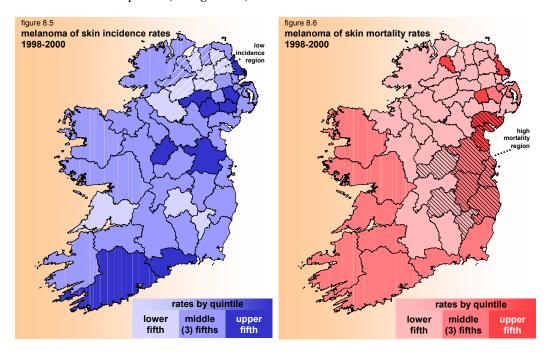
Similarly, there is no change over time in the incidence rates in either ROI or in NI. This is true for both sexes combined as well as men and women separately.

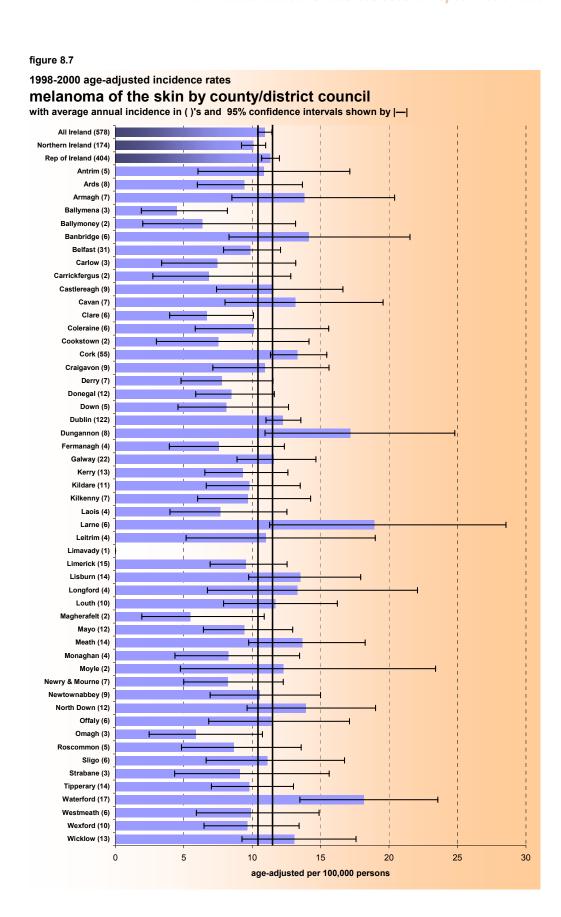
So, too, mortality rates in ROI and NI remain unchanged. Again, this is true for sexspecific rates as well as for both sexes combined. Annual mortality rates in NI and ROI, are also essentially equal.

In comparing the counties' and district councils' incidence rates with the all Ireland rate, only Waterford is significantly high. Both Ballymena and Clare are significantly low. In comparing the mortality rates, no county or district council is significantly high or low. Dublin, however, is very close to being significantly high. (See figures 8.7 and 8.8)

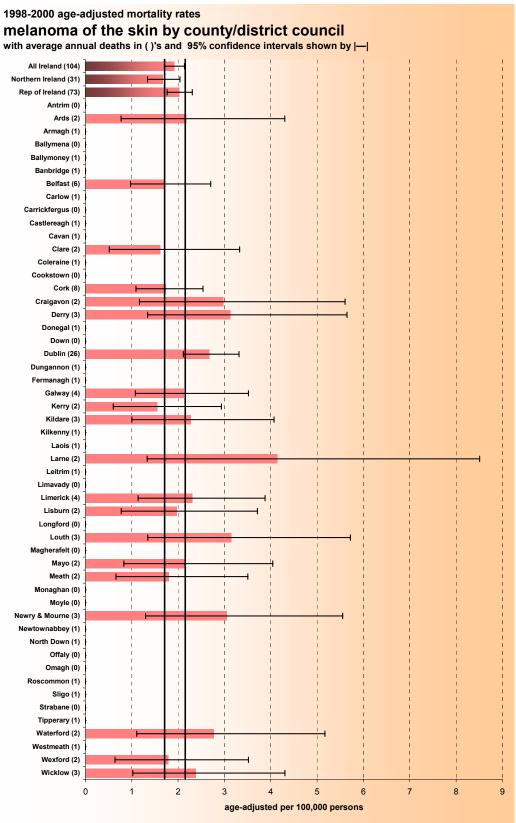
When ranked by their incidence rates, those counties and district councils in the lowest quintile are mostly in the central north region. Those in the upper quintile seem generally spread throughout the island. For mortality, those in the lower quintile are within central and northern parts of the island; those in the upper quintile are on the eastern, western and southern shoreline. (See figures 8.5 and 8.6)

The north central region is identified by the spatial scan statistic as having significantly fewer cases than expected (see figure 8.5). The central eastern coast is seen to have significantly more deaths than expected (see figure 8.6).









Ocsophageal cancer Oesophageal cancer Oesophageal cancer Oesophageal cancer Oesophageal cancer Oesophageal cancer Oesophageal cancer

Key findings:

- Oesophageal cancer ranks twelfth in new cases diagnosed and seventh in cancer-related deaths.
- Incidence and mortality rates for men are more than twice those for women.
- Oesophageal cancer ranks eighth in years of life lost. Half those diagnosed are aged 70 or younger.
- *Incidence and mortality rates in Ireland are* 1.2 to 3 times higher than in the EU and the US.
- Survival rates in Ireland, Europe and the US are low and essentially the same.
- Mortality rates for women are increasing in Northern Ireland and decreasing in the Republic of Ireland.
- Regions in the central and western seaboard have significantly fewer cases than expected.
- Regions on the eastern seaboard have significantly more deaths than expected.
- Differences in trends and geographic distributions point to a need for further study.

phageal cancer Oesophageal cance

9. Oesophageal cancer

Risks and interventions

- Tobacco use combined with alcohol increases the risk for squamous carcinoma of the oesophagus
- Obesity is associated with an increased risk for adenocarcinoma of the oesophagus
- Early diagnosis and state-of-the-art treatments have not yet appreciably improved survival
- Prevention appears to be the most viable means for reducing deaths

Cancer of the oesophagus ranks twelfth among the major cancers in the number of new cases diagnosed, and seventh in the number of cancer deaths. Its high mortality rate makes it a major concern.

Each year nearly 450 people are diagnosed with oesophageal cancer. Each year approximately the same number die from it.

Variation by gender

Oesophageal cancer incidence and mortality rates for men are more than twice those for women.

For men it ranks tenth in incidence and fifth in mortality relative to the other major cancer sites. For women it ranks thirteenth in incidence and eighth in mortality.

International comparisons

Compared to the EU and the US, the incidence rate for men in Ireland is 1.2 to 1.5 times higher. For women, it

oesophageal cancer incidence and mortality 1998 - 2000 average annual incidence all-ireland age-adjusted rate per 100,000 with 95% ci cases male 265 11.1 female 180 5.5 total 445 european union (1998 only) male female 2.2 total united states (11 seer regions) male female 1.8 total 1998 - 2000 average annual age-adjusted rate per 100,000 with 95% ci all-ireland deaths male 288 11.9 female 172 5.0 total 460 8.2 european union (1998 only) male female 1.9 total 4.9 united states (11 seer regions) male 6.7 female 1.6

is 2.5 to 3 times higher. Similarly, for mortality, the rate for men in Ireland is 1.4 to 1.8 times higher than in the EU or US, whilst the rate for women is 2.5 to 3 times higher than in the EU or US.

Oesophageal cancer is often fatal. Treatment is usually directed toward palliation rather than prolonging life. Female survival rates in Ireland are better than in Europe but male rates are essentially the same.

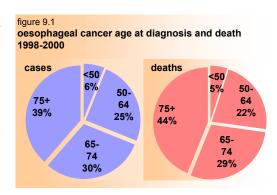
| table 9.2 | | | |
|---|-----------------|-----------------|--|
| oesophageal cancer 5-year relative survival (%) | | | |
| | male | female | |
| | rate 95% ci | rate 95% ci | |
| ireland | 10.7 8.4, 13.0 | 17.6 14.5, 20.7 | |
| europe (eurocare) | 8.5 7.5, 9.7 | 10.5 9.2, 11.9 | |
| united states (seer) | 13.6 12.3, 14.9 | 13.3 11.1, 15.5 | |

Age distribution

Roughly 30% of the people with oesophageal cancer are under age 65 when they are diagnosed. Half are under age 70.

Oesophageal cancer ranks eighth among the major cancers in terms of years of life lost, putting it ahead of prostate cancer and melanoma of the skin.

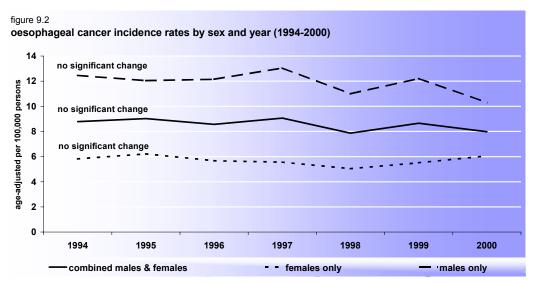
More than a quarter of the people who die from oesophageal cancer are under age 65.

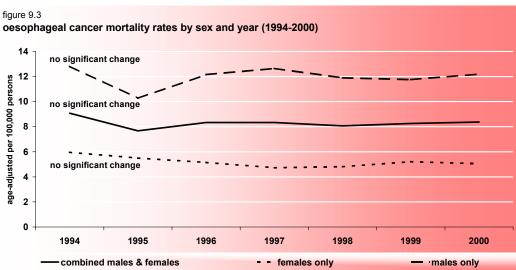


Time trends

There is no significant trend in either incidence or mortality rates between 1994 and 2000.

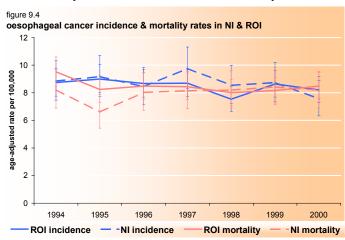
This is true for men and women separately and for both sexes combined





Geographic variations

Year to year, the incidence rates in Northern Ireland (NI) and the Republic of Ireland (ROI) are essentially the same. So, too, are the mortality rates.



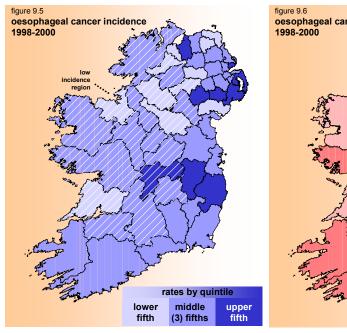
For both incidence and mortality rates in NI and ROI the overall trends are flat.

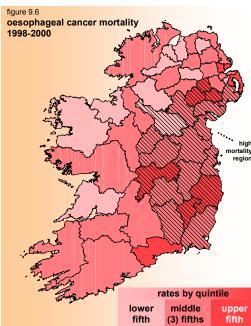
However, for women in ROI mortality rates are decreasing by 4.2% per year, whilst in NI they are increasing by 4.5% per year. The trends for women's incidence rates and for men's incidence and mortality rates are flat in both ROI and NI. (Note: sex-specific rates are not shown in figure 9.4)

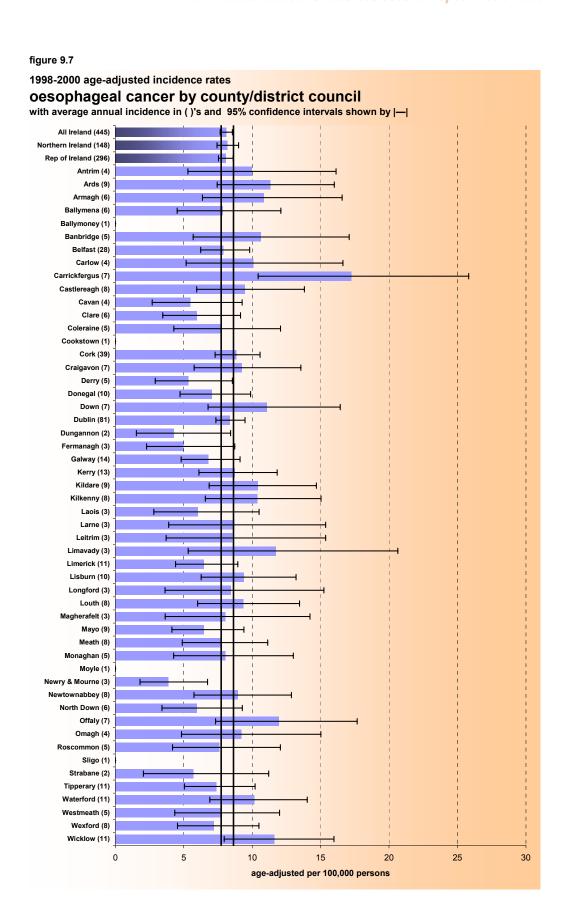
Among the counties and district councils, Carrickfergus has a significantly high incidence rate, and Newry & Mourne has a significantly low incidence rate. For mortality, Craigavon and Wicklow are significantly high, while Sligo is significantly low. Rates are not computed for areas with fewer than 5 cases or deaths between 1998 and 2000. (See figures 9.7 and 9.8)

For both incidence and mortality rates, counties and district councils in the upper quintile are generally grouped in north eastern or south eastern Ireland. Counties and district councils with rates in the lower quintile are generally in western or central Ireland. (See figures 9.5 and 9.6)

Consistent with that pattern, the spatial scan statistic identifies the eastern region in figure 9.6 as having 15% more deaths than expected, while identifying the western region in figure 9.5 as having 18% fewer cases than expected.

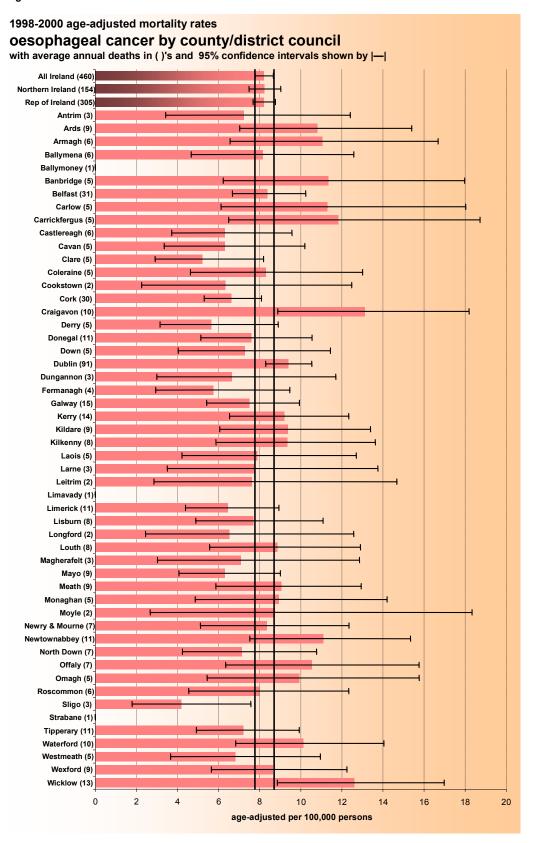






56

figure 9.8



Prostate cancer Prostate cancer

Key findings:

- *Prostate cancer is the leading type of cancer in men.*
- Prostate cancer ranks third in men for cancer-related deaths.
- Prostate cancer ranks tenth in years of life lost. Nearly 80% of the men diagnosed are 65 years old or older
- Ireland's mortality rate is higher than the EU and US rates
- Survival rates for Ireland, Europe and the US are strongly influenced by differing proportions of screen-detected cancer.
- Incidence rates for all Ireland and the Republic of Ireland are increasing.
- Mortality rates in Northern Ireland are declining.
- *Incidence and mortality rates in the Republic of Ireland are significantly higher than those in Northern Ireland.*
- Increased PSA testing is probably responsible for the sharp rise in incidence rates as well as the wide variation in incidence rates among regions.
- With the benefits of PSA screening unproven, and the risk of unwarranted worries and unneeded treatments high, policy guidelines on screening should be examined.

Prostate cancer Prostate cance

10. Prostate cancer

Risks and interventions

- Studies on prevention are mixed. Low fat, high fruit and vegetable diets may reduce risk.
- Studies on screening are mixed. The benefits of early detection through PSA tests are not proven.
- Studies on treatment are mixed. For some, surgery may be worth the risk of serious side effects. For others, non-surgical treatments or close monitoring with no treatment may be more appropriate.

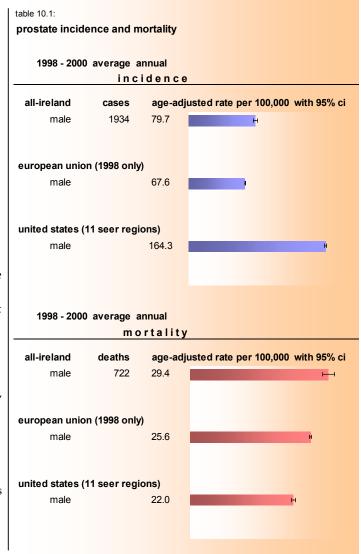
For men, prostate cancer ranks first in new cases diagnosed, and third in cancer-related deaths. Each year more than 1900 men are diagnosed, and more than 700 die from it.

International comparisons

Ireland's incidence rate is nearly 20% higher than the EU rate, but it is less than half the rate in the US—even when excluding high at-risk African-American men.

Yet the differing rates may be misleading. Prostate specific antigen (PSA) tests can detect non-life threatening cancers typically not found by clinical examination. In doing so, PSA tests increase the number of cases reported, and increase the rates.

Since the value of PSA testing is still unproven, there is wide variation in its use. Differing incidence rates in Ireland, EU and the US may be a reflection of this variation in PSA testing.



Ireland's mortality rate is about 15% higher than in the EU, and 30% higher than in the US.

Widespread PSA testing also leads to high survival rates—simply by adding more non-fatal cases. The high US survival rate may reflect this. It is difficult, therefore, to compare survival in Ireland, Europe and the US.

table 10.2

prostate cancer 5-year relative survival (%)

male female

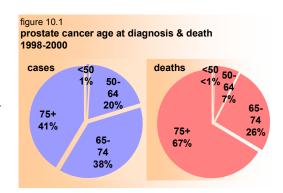
rate 95% ci rate 95% ci

ireland 64.5 62.4, 66.7 ---
europe (eurocare) 65.4 64.4, 66.4 ---
united states (seer) 98.0 97.6, 98.4 ----

-Nearly 80% of the men diagnosed with prostate cancer in Ireland are 65 years old or older. Half the men are age 71 or older. In general, this is a disease of the elderly.

Prostate cancer ranks tenth among the major cancer sites in terms of years of life lost.

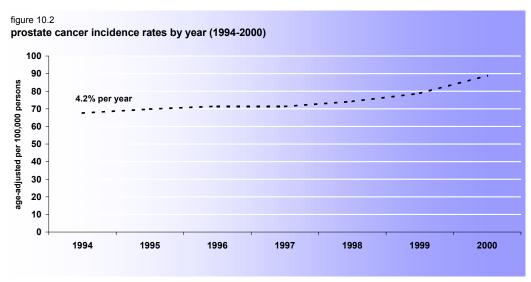
More than 90% of the men who die from prostate cancer are 65 or older. Two-thirds are aged 75 and older.

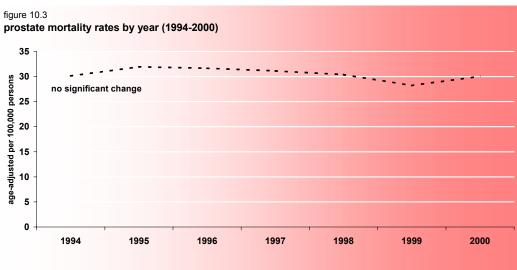


Time trends

Incidence rates are increasing by about 4% per year. The sharpest rise, however, occurs from 1998 to 2000.

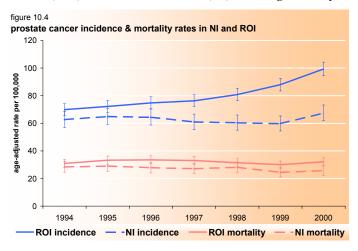
The mortality rate trend is flat.





Geographic variations

Beginning in 1997 and continuing each year afterwards, the incidence rates in the Republic of Ireland (ROI) and Northern Ireland (NI) differ significantly.



From 1994 to 1998, the rates in ROI rise by about 3% per year; from 1998 to 2000, they increase by 11% per year. Such an upsurge is probably due to increased PSA testing and follow-up biopsies. In NI the rates remain unchanged, although PSA testing is on the rise there as well.

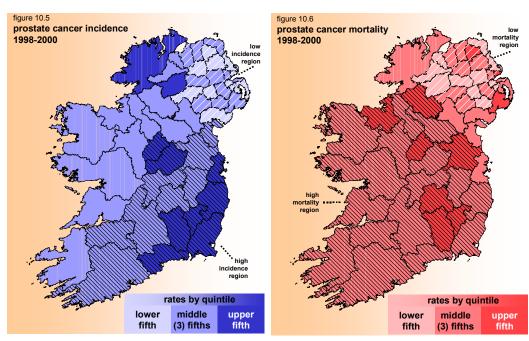
For mortality, the NI rates are decreasing by 2% per year. In ROI they remain unchanged.

For each individual year the mortality rates in ROI and NI are essentially equal.

Significantly high incidence rates are seen in Dublin, Carlow, Cork, Donegal, Wicklow and Waterford. In fact, the incidence rate for ROI is significantly higher than the all-Ireland rate. No county or district council has a significantly high mortality rate (see figures 10.7 and 10.8)

Many district councils in NI are in the lower quintile for incidence and mortality rates. Counties in the upper quintile for incidence rates are mostly in the east. Areas in the upper quintile for mortality rates seem randomly dispersed. (See figures 10.5 and 10.6)

The spatial scan statistic identified the northern regions as having about 30% fewer cases and about 25% fewer deaths than expected. The southeast region is found to have 16% more cases than expected. The whole southern region highlighted has 10% more deaths than expected. (See figures 10.5 and 10.6)



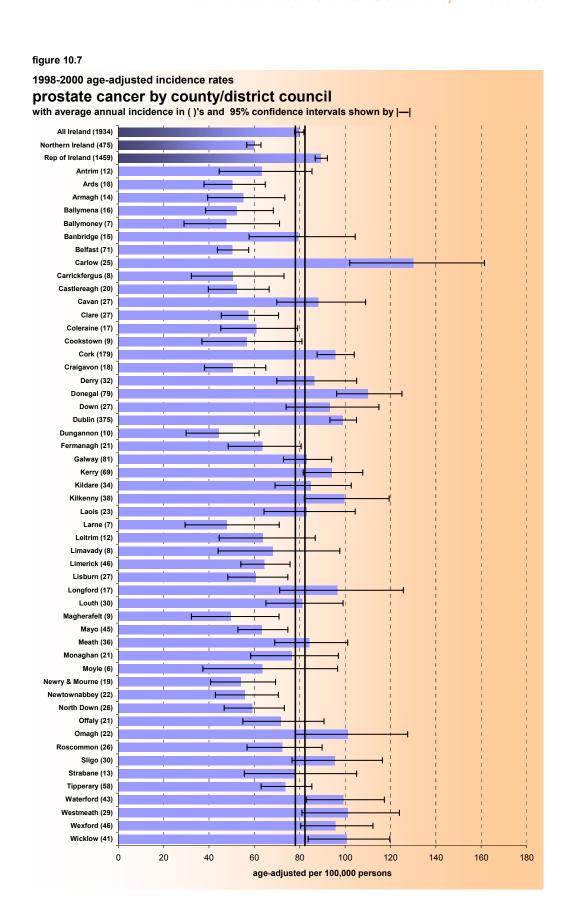
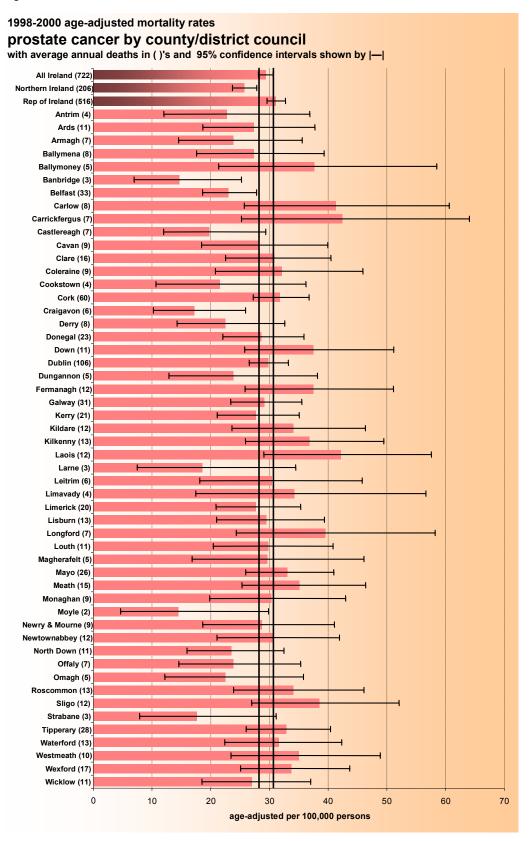


figure 10.8



Stomach cancer Stomac

Key findings:

- Stomach cancer is the sixth leading type of cancer, and the fifth leading cause of cancer death.
- *Incidence and mortality rates for men are twice those for women.*
- Stomach cancer ranks fifth in years of life lost. Nearly 30% of those diagnosed are under age 65.
- Survival rates for stomach cancer are low in Ireland, the EU and the US.
- *Ireland's mortality rate is twice the US rate* .
- Incidence and mortality rates in all Ireland and the Republic of Ireland are falling. Rates in Northern Ireland remain unchanged.
- Regions in the east have significantly more cases and deaths than expected.
- Prevention initiatives, focusing on diet and tobacco control, and particularly targeting populations in high risk areas, should be continued and strengthened.

cancer Stomach cancer

11. Stomach cancer

Risks and interventions

- Changes in diet—less salt, more fruit and vegetables—can prevent stomach cancer.
- Control of Helicobacter pylori infections may prevent stomach cancers, but studies are not definitive.
- Smoking increases risk.
- Few treatment options exist.

Stomach cancer ranks sixth among the major cancers in both new cases diagnosed and fifth in cancer-related death. Each year, more than 700 people are diagnosed with stomach cancer and about 550 die from it.

Variation by gender

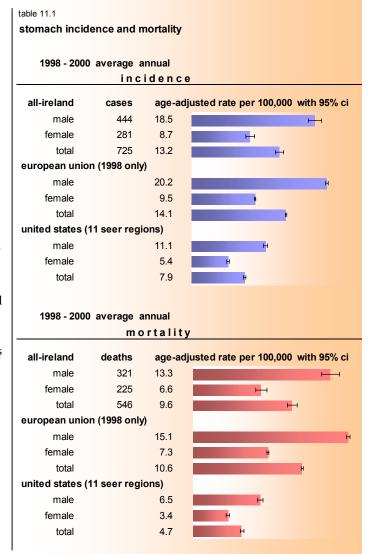
For men stomach cancer ranks fifth in incidence and fourth in cancer death. For women it ranks eighth in incidence and sixth in cancer death.

Like many cancers, men tend to be at greater risk. With stomach cancer, the incidence and mortality rates for men are more than twice those for women.

International comparisons

For both men and women, the incidence and mortality rates in Ireland are about the same as in the EU.

However, for both men and women the incidence rates here are about 70% higher



than in the US. Moreover, the mortality rates in Ireland are double the US rates.

Stomach cancer survival rates are low everywhere. In Ireland and Europe about 20% of the patients diagnosed live five years or longer. In the US, it is about a quarter. Ireland's survival rates are, however, significantly lower than in either Europe or the US.

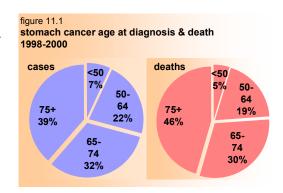
| table 11.2 | | | |
|---|-----------------|-----------------|--|
| stomach cancer 5-year relative survival (%) | | | |
| | male | female | |
| | rate 95% ci | rate 95% ci | |
| ireland | 16.8 14.6, 19.0 | 19.5 16.9, 22.2 | |
| europe (eurocare) | 20.0 19.2, 20.9 | 25.4 24.3, 26.6 | |
| united states (seer) | 22.2 21.0, 23.4 | 25.4 23.8, 26.9 | |

Age distribution

Stomach cancer is generally thought to be a disease of the elderly only. However, nearly 30% of the people diagnosed are under age 65. In fact, half are under age 70.

Among the major cancer sites, stomach cancer ranks fifth in years of life lost.

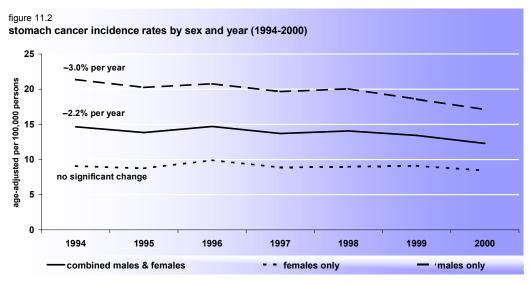
Almost 25% of the people who die from stomach cancer are under age 65.

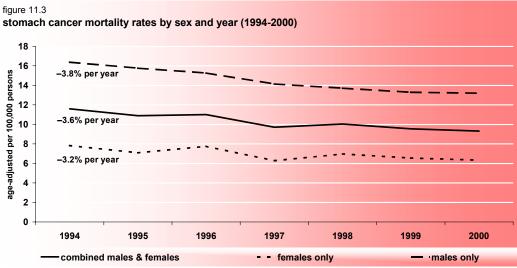


Time trends

Incidence rates are falling by about 3% per year for men, and by 2% per year for both sexes combined. The rates for women have not changed.

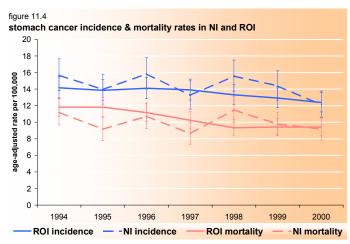
Mortality rates are falling for both men and women. For men they are going down by about 4% per year. For women, the rates are falling by about 3% per year.





Geographic variations

For each year between 1994 and 2000, the incidence rates in Northern Ireland (NI) and the Republic of Ireland (ROI) have been essentially the same.



The incidence rates in ROI are falling by about 2% per year. The rates in NI have not changed.

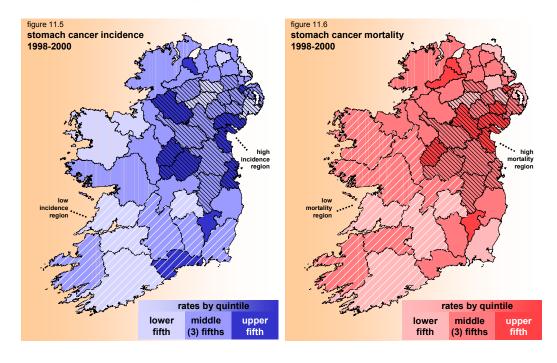
The mortality rates in ROI are falling by about 5% per year. The rates in NI have not changed significantly.

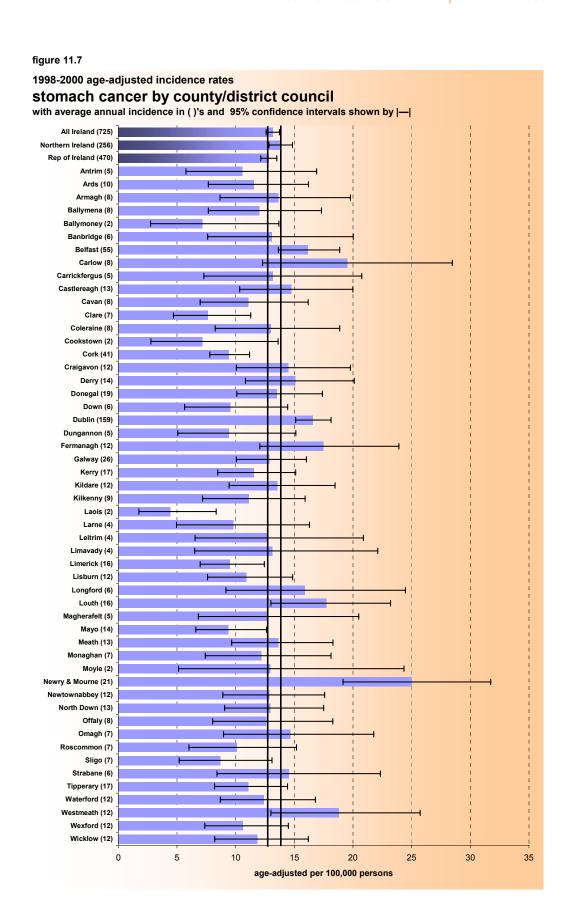
Year by year the mortality rates in ROI and NI are essentially the same.

For each county or district council individually, only Dublin and Newry & Mourne have incidence rates that are significantly high. Newry & Mourne also has a significantly high mortality rate, as does Belfast. (See figures 11.7 and 11.8) Previous reports have noted this.

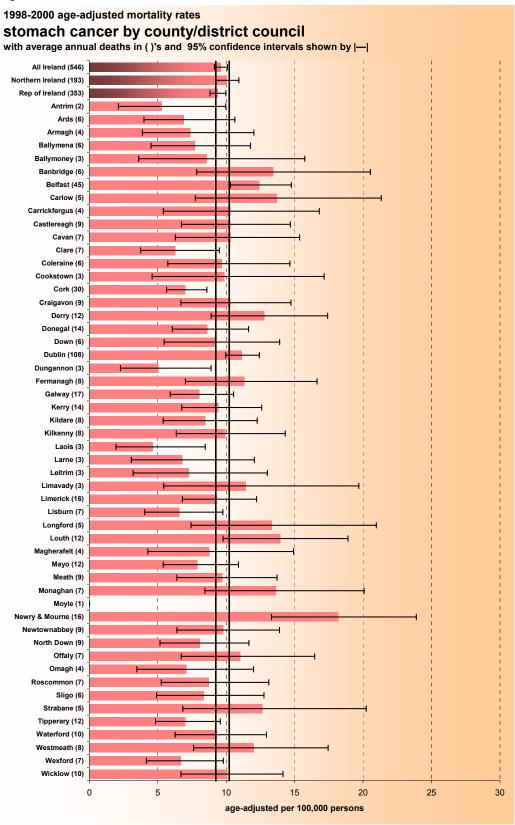
Counties or district councils in the upper quintile for incidence and mortality are generally in the east or inland. Counties or district councils in the lower quintile for incidence and mortality are generally in the south or west. (See figures 11.5 and 11.6)

The spatial scan statistic finds that the northeast region has 17% more cases than expected. A similar region is seen as having 16% more deaths than expected. A large region encompassing most of the southern counties is identified as having 25% fewer cases than expected. A similar but somewhat broader region encompassing the southwest is found to have 20% fewer deaths than expected. (See figures 11.5 and 11.6)









Priority issues and actions Priority issues and

Priority issues and actions:

- Increase mammography screening in the Republic of Ireland.
- *Understand regional variations in colorectal cancer and target colorectal prevention to high-risk regions and populations.*
- Reduce tobacco use throughout Ireland.
- Determine the impact of PSA testing on health care resource use, identify incentives for its use, and assess its likely effects on quality of care, quality of life, and regional variations.
- Stomach and oesophageal cancers would benefit from a tobacco reduction initiative. Stomach cancer would also benefit from any dietary initiative.
- Initiatives focusing on preventing sunburns in children and taking care in the sun, while avoiding sunbeds, would be worthwhile in reducing melanoma.
- Much could be accomplished through a broader coalition of the registries with cancer research centres, medical oncology groups and other key medical, advocacy, and public health groups.

ues and actions Priority issues and

12. Priority issues and actions

Cancer is a large and, as the population ages, growing problem in Ireland. But it is not insurmountable. To deal with such a large problem, however, the first steps should involve identifying priorities. This report provides one avenue for doing so.

Most of the cancer sites focused on in this report were chosen because they represent a major burden to the general population, and because interventions or actions exist to prevent or cure them. In this respect all such cancers highlighted in the report are high priority concerns. Even so, some are clearly a higher priority than others.

Four cancers readily fall into this highest priority group: breast, colorectal, lung and prostate. Together they constitute more than half of all the cancers in Ireland. Individually, they are unique in the combination of the problems they pose, the populations they affect, and the strategies best suited to overcome them. These are highlighted and discussed below.

Increase
mammography
screening in the
Republic of
Ireland.

Breast cancer – For women, breast cancer is the leading type of cancer and the leading cause of cancer-related death. Few prevention options exist, and their impact may be limited and not be felt for many years. Screening — specifically mammography screening — is the preferred intervention because it can prevent breast cancer deaths now.

Ireland's regional variations in breast cancer incidence and mortality appear to correspond to differences in the availability and use of such screening services. A region encompassing most of Northern Ireland, where nationally sponsored screening programmes are wellestablished, is found to have fewer breast cancer-related deaths than expected. Moreover, cancer mortality rates in Northern Ireland have fallen by more than 20% between 1994 and 2000. In the Republic of Ireland, where there was no state-sponsored programme before 2000, breast cancer mortality rates are the same in 2000 as they were in 1994.

These findings strongly suggest a need for an increase in the use and/or availability of mammography screening services in the Republic of Ireland.

Colorectal cancer – For both sexes combined, colorectal cancer is the leading cause of cancer in Ireland, and the second leading cause of cancer-related death. Actions that prevent colorectal cancer are similar to those that prevent cardiovascular disease: regular exercise, and low-fat, high fruit and vegetable diets. This dual benefit alone makes prevention a highly desirable strategy. Screening for colorectal cancer is under investigation and looks promising. Options for screening for colorectal cancers run the gamut from inexpensive home-administered faecal occult blood tests (FOBT), to varyingly invasive and

Understand
regional
variations
and . . .

... target
prevention to
high-risk
regions and
populations.

sophisticated procedures such as sigmoidoscopy or colonoscopy. Each has its benefits and shortcomings.

This report has identified striking variations by region and by sex for incidence and mortality rates in Ireland. Incidence and/or mortality rates are significantly high in certain counties and district councils. Rates are falling in Northern Ireland, but not in the Republic of Ireland. Incidence in men is 1.5 times higher than in women. The eastern region has significantly more cases than expected.

Understanding why regional variations in colorectal cancer exist should be a priority focus of future epidemiological analyses. Targeting those regions and populations at highest risk should be the priority focus of prevention initiatives.

Lung cancer – The leading cause of cancer death in Ireland is lung cancer. Tobacco exposure, particularly cigarette smoking, is the principal cause of lung cancer. Prevention is the most effective means available today for reducing lung cancer incidence and mortality.

use throughout Ireland

Reduce tobacco

Confirming what has been reported elsewhere, the incidence and mortality rates for lung cancer are highest in those urban regions where smoking rates are typically the highest.

The nationwide effort in the Republic of Ireland to reduce tobacco use, including a ban on smoking in public places, should profoundly lower the rates of lung cancer. Such an initiative needs to be instituted island-wide.

Determine
impact of PSA
testing on
health care
resource use,
identify
incentives for
its use,
and . . .

Prostate cancer – The leading cause of cancer in men is prostate cancer. Low-fat, high fruit and vegetable diets may reduce a man's risk for prostate cancer, but the evidence is not conclusive. The relative benefits of screening and subsequent treatment are, in many instances, unclear. The widespread and growing use of prostate specific antigen (PSA) tests—which can detect non-life threatening prostate cancers, but cannot distinguish them from life threatening ones—adds to the complexity.

The implications of all this uncertainty appear to be reflected in the differences in Northern Ireland and the Republic of Ireland. Between 1994 and 2000, the incidence rates in the Republic of Ireland increased by 33%—with a 22% increase between 1998 and 2000 alone. In Northern Ireland, during that same 1994-2000 period, there is no change in the incidence rate. This suggests an increase in PSA testing and follow-up biopsies in the Republic of Ireland, but not in Northern Ireland. Is that what occurred? Why? What are the implications?

Equally intriguing, from 1994 to 2000 the mortality rates in Northern Ireland fell by 12%, but in the Republic of Ireland they have remained unchanged. Moreover,

regions that encompass large sections of the Republic of Ireland are seen to have significantly more cases and more deaths than expected. Why?

Understanding these differences between the Republic of Ireland and Northern Ireland has important implications on issues as diverse as health care resource utilization, incentives in the health care system, quality of care, quality of life, and the epidemiology of prostate cancer. They should be explored. With the benefits of PSA screening unproven, and the risk of unwarranted worries and unneeded treatments high, policy guidelines on screening should be examined.

. . . assess
quality of care,
quality of life,
and regional
variations.

Among the remaining cancers, two, *stomach* and *oesophageal cancers*, would benefit from the tobacco reduction initiative. The geographic distribution of both cancers, in fact, loosely mirrors that of lung cancer. Stomach cancer would also benefit from any dietary initiative; diets high in fruits and vegetables and low in salt help prevent stomach cancer.

Ultraviolet exposure is well documented as the primary cause of *melanoma of the skin*. Although not currently a major burden to the general population, and showing no increase between 1994 and 2000, the general characteristics of a large proportion of the population of Ireland correspond to those most at-risk: fair skin, red-hair, and freckles. Initiatives focusing on preventing sunburns in children and taking care in the sun, while avoiding sunbeds, would be worthwhile and would also reduce incidence of the most common cancer, non-melanoma skin cancer.

For *childhood cancer* and *lymphoma*, the findings that there are no geographic variations in their distribution is encouraging. Monitoring of these cancers is important, but "cluster" analyses and other resource expenditures should be tempered with a sense of the relative impact these cancers have on the population.

The cancer registries of the Republic of Ireland and Northern Ireland are the foundations of our understanding of cancer throughout the island. The collaboration of these two entities, together with participation from the United States, exemplifies once again the value inherent in partnerships.

Much more, however, could be accomplished through a broader coalition of the registries with cancer research centres, medical oncology groups and other key medical, advocacy, and public health entities. Such a coalition could provide the most efficient and effective means for identifying and implementing priority initiatives to reduce incidence, morbidity and mortality through prevention, early detection, treatment, rehabilitation, and palliation. The first steps in building such a coalition have been made through the establishment of the Ireland/Northern Ireland/NCI Cancer Consortium.

The need to develop this coalition further may be the highest priority finding of this report.

Appendices

Appendix A

Definitions of cancer sites

| Cancer | Incidence Codes ICD-0-2 (malignant behaviour only) | Mortality Codes ICD-9 or ICD-10 |
|----------------------------|--|---|
| All sites combined | C00.0 - C80.9, all morphology codes | ICD-9: 140-208 ICD-10: C00-C97 |
| Bladder | C67.0-C67.9, excluding morphology codes 9590- 9989 | ICD-9: 188.0-188.9 ICD-10: C67 |
| Brain | C71.0-C71.9, excluding morphology codes 9530- 9539 and 9590-9989 | ICD-9: 191.0-191.9 ICD-10: C71 |
| Breast (Female) | C50.0-C50.9, excluding morphology codes 9590- 9989 | ICD-9: 174.0-174.9 ICD-10: C50 |
| Cervix | C53.0-C53.9, excluding morphology codes 9590- 9989 | ICD-9: 180.0-180.9 ICD-10: C53 |
| Colorectal | C18.0-C18.9, C19.9, C20.9, C26.0, excluding morphology codes 9590-9989 | ICD-9: 153, 153.0-154.1, 159, 159.0 ICD-10: C18-C20, C26.0 |
| Endometrium | C54.0-C54.9, excluding morphology codes 9590- 9989 | ICD-9: 182, 182.0-182.1, 182.8 ICD-10: C54 |
| Oesophagus | C15.0-C15.9, excluding morphology codes 9590- 9989 | ICD-9: 150.0-150.9 ICD-10: C15 |
| Hodgkin's Lymphoma | All primary sites with morphology codes 9650-9667 | ICD-9: 201.0-201.9 ICD-10: C81 |
| Kaposi's Sarcoma | All primary sites with morphology code 9140 | ICD-9: 176 ICD-10: C46 |
| Kidney and Renal Pelvis | C64.9, C65.9, excluding morphology codes 9590- 9989 | ICD-9: 189, 189.0, 189.1 ICD-10: C64-C65 |
| Larynx | C32.0-C32.9, excluding morphology codes 9590- 9989 | ICD-9: 161.0-161.9 ICD-10: C32 |
| Leukaemia | All primary sites with morphology codes 9800-9941 | ICD-9: 204.0-208.9 ICD-10: C90.1, C91-C95 |
| Liver | C22.0, excluding morphology codes 9590-9989 | ICD-9: 155, 155.0, 155.2 ICD-10: C22.0, C22.2-C22.4, C22.7, C22.9 |
| Lung and Bronchus | C34.0-C34.9, excluding morphology codes 9590- 9989 | ICD-9: 162, 162.2-162.9 ICD-10: C34 |
| Melanoma of the Skin | C44.0-C44.9, including only morphology codes 8720-8790 | ICD-9: 172.0-172.9 ICD-10: C43 |
| Multiple Myeloma | All primary sites with morphology codes 9731-9732 | ICD-9: 203, 203.0, 203.2-203.8 ICD-10: C90.0, C90.2 |
| Non-Hodgkin's Lymphoma | All primary sites with morphology codes 9590-9595, 9670-9719 | ICD-9: 200, 200.0-200.8, 202, 202.0- 202.2, 202.8-202.9 ICD-10: C82-C85 |
| Oral Cavity and Pharynx | C00.0-C14.8, excluding morphology codes 9590- 9989 | ICD-9: 140.0-149.9 ICD-10: C00-C14 |
| Ovary | C56.9, excluding morphology codes 9590-9970 | ICD-9: 183, 183.0 ICD-10: C56 |
| Pancreas | C25.0-C25.9, excluding morphology codes 9590- 9989 | ICD-9: 157.0-157.9 ICD-10: C25 |
| Prostate | C61.9, excluding morphology codes 9590-9989 | ICD-9: 185 ICD-10: C61 |
| Stomach | C16.0-C16.9, excluding morphology codes 9590- 9989 | ICD-9: 151.0-151.9 ICD-10: C16 |
| Testis | C62.0-C62.9, excluding morphology codes 9590- 9989 | ICD-9: 186.0-186.9 ICD-10: C62 |
| Thyroid | C73.9, excluding morphology codes 9590-9989 | ICD-9: 193 ICD-10: C73 |

Appendix B

Statistical formulae and special terminology

Most formulae used in this report are described in Appendix 2 of the *All-Ireland cancer statistics report 1994-96*, March 2001. Two exceptions are described below:

Confidence intervals: The confidence intervals in this report are calculated using the gamma distribution as described in these formulae:

LowerLimit =
$$\frac{v}{2y}(\chi^2)\frac{-1}{2y^2}(\alpha/2)$$

UpperLimit =
$$\frac{v + w_M^2}{2(y + w_M)} (\chi^2) \frac{-1}{\frac{2(y + w_M)^2}{v + w_M^2}} (1 - \alpha/2)$$

where y is the age-adjusted rate, v is the variance as calculated in the equation,

$$v = \sum_{i=1}^m d_i (s_i/P_i)^2$$

wM is the maximum of the weights s_i/P_i , $1-\alpha$ is the confidence level desired (i.e. if 95% confidence intervals are needed, use α = 0.05), and $(\chi^2)^{-1}x$ is the inverse of the χ^2 distribution with x degrees of freedom.

Spatial Scan Statistic: The spatial scan statistic is described by Kulldorff (2002) as the following process:

The purely spatial scan statistic imposes a circular window on the map. The window is in turn centred on each of several possible grid points positioned throughout the study region. For each grid point, the radius of the window varies continuously in size from zero to some upper limit. In this way, the circular window is flexible both in location and size. In total, the method creates an infinite number of distinct geographical circles with different sets of neighbouring data locations within them. Each circle is a possible candidate for a cluster.

For each location and size of the scanning window, the alternative hypothesis is that there is an elevated rate within the window as compared to outside. Under the Poisson assumption, the likelihood function for a specific window is then proportional to:

$$(c/n)^{c}([C-c]/[C-n])^{(C-c)}I()$$

where C is the total number of cases over the whole area, c is the number of cases within the window, and n is the covariate adjusted expected number of cases within the window under the null-hypothesis.

I() is an indicator function. When SaTScan is set to scan only for clusters with high rates, I() is equal to 1 when the window has more cases than expected under the null-

hypothesis, and 0 otherwise. The opposite is true when SaTScan is set to scan only for clusters with low rates. When the program scans for clusters with either high or low rates, then I()=1 for all windows.

The likelihood function is maximized over all window locations and sizes, and the one with the maximum likelihood constitutes the most likely cluster. This is the cluster that is least likely to have occurred by chance. The likelihood ratio for this window constitutes the maximum likelihood ratio test statistic. Its distribution under the null-hypothesis is obtained by repeating the same analytic exercise on a large number of random replications of the data set generated under the null hypothesis. The p-value is obtained through Monte Carlo hypothesis testing, by comparing the rank of the maximum likelihood from the real data set with the maximum likelihoods from the random data sets. If this rank is R, then p = R / (1 + # simulation). In order for p to be a 'nice looking' number, the number of simulations is restricted to 999 or some other number ending in 999 such as 1999, 9999 and 29999. That way it is always possible to reject or not reject the null hypothesis for typical cut-off values such as 0.05, 0.01 and 0.001. Additional information and the software is available at: http://www.satscan.org/

Kulldorff M and Information Management Services, Inc (2002). *SaTScan v.3.05: Software for the spatial and space-time scan statistic* Bethesda, MD USA: National Cancer Institute

Appendix C1 Total incidence and age-adjusted rates for the

| | الذ | sites com | hinod | i | colore | | Lium | a g br | onchus | | lympho | .ma |
|-------------------------------|-------------------|----------------|----------------------------------|-------------|--------------|------------------------------|-------------|--------------|------------------------------|-------------|-------------|-----------------------------|
| county or | | Siles con | billed | cases | COIOTE | Jai | cases | ig & Dit | Jiiciius | cases | iyiripiic | Jila |
| county or district council | cases per year | rate | 95% ci | per year | rate | 95% ci | per year | rate | 95% ci | per year | rate | 95% ci |
| Antrim | 153 | 341.1 | (310.2, 373.3) | 19 | 42.4 | (32.0, 54.3) | 17 | 39.5 | (29.4, 51.0) | 5 | 10.9 | (6.0, 17.1) |
| Ards | 273 | 329.1 | (306.4, 352.6) | 33 | 40.7 | (33.0, 49.3) | 30 | 36.6 | (29.3, 44.6) | 13 | 16.6 | (11.7, 22.3) |
| Armagh | 194 | 354.1 | (325.4, 384.0) | 23 | 39.8 | (30.7, 50.0) | 27 | 50.3 | (39.8, 62.0) | 10 | 19.1 | (12.9, 26.5) |
| Ballymena | 221 | 332.3 | (306.9, 358.7) | 35 | 53.0 | (43.2, 63.8) | 24 | 34.9 | (27.1, 43.6) | 12 | 18.5 | (12.9, 25.2) |
| Ballymoney | 94 | 332.5 | (293.8, 373.4) | 18 | 59.1 | . , | 11 | 38.5 | (26.3, 53.1) | 4 | 14.7 | (7.4, 24.5) |
| Banbridge | 149 | 363.2 | (329.8, 398.3) | 21 | 50.8 | (38.8, 64.4) | 15 | 37.1 | (27.1, 48.7) | 8 | 19.0 | (12.0, 27.7) |
| Belfast | 1256 | 387.9 | (375.0, 401.0) | 163 | 47.9 | (43.5, 52.5) | 238 | 72.1 | (66.7, 77.7) | 55 | 17.8 | (15.1, 20.7) |
| Carlow | 154 | 388.3 | (353.3, 424.9) | 16 | 40.5 | (29.8, 52.9) | 18 | 44.0 | (32.8, 56.9) | 6 | 16.0 | (9.6, 24.1) |
| Carrickfergus | 133 | 333.4 | (300.8, 367.5) | 12 | 30.2 | (21.1, 40.8) | 21 | 51.5 | (39.4, 65.2) | 8 | 18.7 | (11.7, 27.3) |
| Castlereagh | 285 | 337.7 | (314.4, 361.7) | 41 | 43.7 | (36.0, 52.1) | 39 | 44.0 | (36.0, 52.7) | 12 | 15.7 | (10.9, 21.4) |
| Cavan | 206 | 335.5 | (308.5, 363.6) | 34 | 55.8 | (45.1, 67.6) | 23 | 36.5 | (28.0, 46.1) | 8 | 15.4 | (9.9, 22.1) |
| Clare | 281 | 286.3 | (266.7, 306.4) | 40 | 39.6 | (32.6, 47.3) | 32 | 31.7 | (25.5, 38.5) | 12 | 12.8 | (9.0, 17.4) |
| 7.7 | 215 | 345.9 | , | 32 | | . , | 27 | | , , | | | , , |
| Coleraine | | | (319.1, 373.7) | | 50.0 | (40.3, 60.7) | | 42.2 | (33.2, 52.2) | 13 | 21.4 | (15.1, 28.8) |
| Cookstown Cork | 99 1529 | 305.0 363.9 | (270.3, 341.7) (353.2, 374.6) | 13 238 | 39.2 56.1 | (27.5, 53.1) (52.0, 60.3) | 16 172 | 46.7 40.0 | (34.0, 61.4) (36.6, 43.6) | 3 57 | 8.4 13.5 | (3.6, 15.4) (11.5, 15.6) |
| | | | | i | | | - | | , | - | | / |
| Craigavon | 288 | 353.7 | (330.1, 378.0) | 44 | 52.7 | (44.0, 62.2) | 40 | 48.4 | (40.0, 57.5) | 16 | 20.3 | (15.0, 26.5) |
| Derry | 352 | 400.9 | (376.9, 425.7) | 47 | 54.6 | (45.9, 64.0) | 55 | 62.9 | (53.5, 72.9) | 13 | 14.8 | (10.5, 19.8) |
| Donegal | 489 | 344.3 | (326.3, 362.9) | 71 | 49.2 | (42.6, 56.4) | 60 | 44.8 | (38.3, 51.8) | 16 | 11.9 | (8.7, 15.6) |
| Down | 237 | 363.9 | (337.0, 391.8) | 32 | 46.5 | (37.4, 56.5) | 28 | 43.4 | (34.4, 53.3) | 11 | 16.4 | (11.1, 22.8) |
| Dublin | 3829 | 399.7 | (392.4, 407.2) | 500 | 52.6 | (49.9, 55.3) | 552 | 58.2 | (55.4, 61.1) | 154 | 15.6 | (14.2, 17.1) |
| Dungannon | 171 | 360.5 | (329.4, 393.0) | 25 | 50.5 | (39.5, 62.9) | 20 | 41.1 | (31.3, 52.3) | 10 | 21.9 | (14.8, 30.5) |
| Fermanagh | 215 | 334.3 | (308.0, 361.7) | 30 | 44.1 | (35.1, 54.0) | 20 | 30.3 | (22.9, 38.6) | 12 | 19.4 | (13.4, 26.6) |
| Galway | 670 | 345.4 | (330.0, 361.1) | 105 | 53.1 | (47.2, 59.4) | 71 | 35.7 | (30.9, 40.8) | 28 | 15.2 | (12.1, 18.7) |
| Kerry | 512 | 355.7 | (337.5, 374.3) | 71 | 49.0 | (42.4, 56.0) | 53 | 36.2 | (30.6, 42.2) | 23 | 17.1 | (13.3, 21.5) |
| Kildare | 379 | 388.4 | (365.5, 411.9) | 52 | 55.5 | (47.0, 64.7) | 43 | 47.7 | (39.7, 56.4) | 18 | 16.0 | (11.8, 20.8) |
| Kilkenny | 241 | 306.1 | (283.7, 329.3) | 32 | 39.5 | (31.9, 48.0) | 25 | 31.6 | (24.7, 39.2) | 9 | 11.0 | (7.1, 15.7) |
| Laois | 165 | 302.6 | (276.0, 330.6) | 20 | 35.6 | (27.0, 45.4) | 18 | 32.4 | (24.1, 41.9) | 8 | 14.9 | (9.5, 21.6) |
| Larne | 124 | 339.6 | (305.1, 375.9) | 16 | 42.7 | (31.4, 55.7) | 13 | 33.9 | (24.0, 45.5) | 6 | 18.3 | (10.9, 27.5) |
| Leitrim | 117 | 347.5 | (309.9, 387.3) | 20 | 53.9 | (40.3, 69.5) | 11 | 36.3 | (24.6, 50.3) | 3 | 12.5 | (5.8, 21.7) |
| Limavady | 98 | 359.3 | (319.0, 401.9) | 14 | 47.8 | (34.1, 63.8) | 10 | 39.7 | (26.8, 54.9) | 4 | 12.9 | (6.4, 21.7) |
| Limerick | 537 | 340.3 | (323.7, 357.4) | 75 | 47.3 | (41.2, 53.7) | 70 | 45.2 | (39.2, 51.6) | 25 | 16.1 | (12.6, 20.0) |
| Lisburn | 352 | 330.8 | (310.9, 351.4) | 48 | 45.3 | (38.1, 53.1) | 48 | 45.6 | (38.3, 53.4) | 16 | 15.5 | (11.4, 20.2) |
| Longford | 133 | 396.3 | (357.0, 437.7) | 19 | 55.0 | (41.0, 70.9) | 17 | 50.6 | (37.2, 65.9) | 3 | 9.1 | (4.0, 16.3) |
| Louth | 332 | 373.3 | (350.1, 397.2) | 44 | 49.6 | (41.4, 58.6) | 50 | 55.1 | (46.4, 64.5) | 12 | 13.2 | (9.1, 18.0) |
| Magherafelt | 126 | 338.3 | (304.3, 374.0) | 20 | 52.3 | (39.7, 66.5) | 13 | 36.3 | (25.8, 48.6) | 3 | 9.5 | (4.5, 16.3) |
| Mayo | 441 | 333.4 | (314.7, 352.7) | 72 | 51.4 | (44.4, 58.9) | 44 | 32.7 | (27.1, 38.9) | 17 | 12.1 | (8.8, 15.8) |
| Meath | 368 | 378.9 | (356.4, 402.0) | 56 | 58.8 | (50.2, 68.2) | 41 | 42.2 | (34.9, 50.1) | 17 | 17.1 | (12.7, 22.2) |
| Monaghan | 179 | 335.3 | (306.8, 365.1) | 25 | 48.5 | (37.9, 60.3) | 16 | 29.3 | (21.4, 38.4) | 7 | 13.5 | (8.4, 19.9) |
| Moyle | 66 | 358.1 | (308.7, 411.2) | 10 | 56.2 | | 10 | 51.5 | | 2 | 13.1 | (4.7, 25.8) |
| Newry & Mourne | 301 | 368.8 | (344.7, 393.6) | 53 | 63.4 | (53.7, 73.8) | 35 | 42.2 | (34.3, 50.7) | 15 | 19.2 | (13.9, 25.3) |
| Newtownabbey | 302 | 340.8 | (318.6, 363.7) | 49 | 53.3 | (44.9, 62.5) | 40 | 43.6 | (36.1, 51.9) | 13 | 16.0 | (11.3, 21.5) |
| North Down | 332 | 345.6 | (323.5, 368.5) | 49 | 48.1 | (40.2, 56.6) | 32 | 31.2 | | 16 | 16.3 | (11.8, 21.6) |
| Offaly | 211 | 354.8 | (327.2, 383.5) | 26 | 41.4 | (32.5, 51.4) | 22 | 35.0 | (26.9, 44.2) | 8 | 12.9 | (8.1, 18.7) |
| Omagh | 161 | 346.9 | (315.9, 379.4) | 23 | 48.3 | (37.3, 60.7) | 18 | 39.2 | | 6 | 14.5 | (8.6, 21.9) |
| Roscommon | 202 | 300.0 | (275.3, 325.7) | 33 | 47.0 | (37.7, 57.2) | 23 | 32.6 | (25.0, 41.1) | 5 | 8.6 | (4.7, 13.5) |
| Sligo | 226 | 362.3 | (334.6, 391.0) | 30 | 48.0 | (38.2, 58.8) | 31 | 47.9 | (38.3, 58.5) | 8 | 13.2 | (8.3, 19.3) |
| Strabane | 121 | 331.1 | (297.5, 366.5) | 18 | 48.7 | (36.6, 62.6) | 13 | 36.5 | (25.9, 48.8) | 5 | 13.6 | (7.4, 21.6) |
| Tipperary | 488 | 325.6 | (308.8, 342.9) | 74 | 48.5 | (42.2, 55.3) | 54 | 35.1 | (29.8, 40.9) | 22 | 15.5 | (11.9, 19.5) |
| Waterford | 355 | 371.1 | (348.9, 394.0) | 49 | 51.6 | | 41 | 42.8 | (35.5, 50.7) | 14 | 15.2 | , , |
| Westmeath | 246 | 384.6 | (356.9, 413.4) | 37 | 58.0 | (47.4, 69.6) | 31 | 45.3 | (36.4, 55.3) | 10 | 15.6 | (10.5, 21.6) |
| Wexford | 379 | 361.5 | (340.5, 383.1) | 48 | 45.6 | (38.3, 53.4) | 53 | 49.6 | (42.1, 57.8) | 14 | 14.0 | (10.0, 18.6) |
| Wicklow | 366 | 383.3 | (360.7, 406.7) | 44 | 45.9 | (38.3, 54.2) | 42 | 45.5 | (37.8, 53.9) | 18 | 17.8 | (13.3, 23.0) |
| Rep of Ireland | 13037 | 363.3 | (359.7, 367.0) | 1831 | 50.6 | (49.3, 52.0) | 1612 | | (43.4, 45.9) | 523 | 14.6 | (13.9, 15.4) |
| Northern Ireland | 6317 | 354.3 | (349.2, 359.5) | 889 | 48.3 | (46.4, 50.2) | 862 | 47.6 | (45.7, 49.5) | 291 | 16.8 | (15.7, 18.0) |
| All Ireland | 19354 | | (357.1, 363.1) Rates ao | | | (48.7, 50.9) | | | (44.5, 46.7) | | | (14.7, 16.0) |

major cancer sites by county and district council, 1998-2000 annual average

| mel | lanoma | a of skin | ď | esoph | agus | stomach | | | |
|----------------------|--------------|-----------------------------|----------------------|-------------|----------------------------|----------------------|--------------|-----------------------------|-----------------------------------|
| cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | county or district counc |
| 5 | 10.9 | (6.0, 17.1) | 4 | 10.0 | (5.3, 16.1) | 5 | 10.6 | (5.8, 16.9) | Antrim |
| 8 | 9.4 | (6.0, 13.7) | 9 | 11.3 | (7.4, 16.0) | 10 | 11.5 | (7.7, 16.2) | 7.7 |
| 7 | 13.8 | (8.5, 20.4) | 6 | 10.9 | (6.4, 16.6) | 8 | 13.7 | (8.7, 19.8) | |
| 3 2 | 4.5 6.4 | (1.9, 8.2) (2.0, 13.2) | 6 1 | 7.9 | (4.5, 12.1) | 8 2 | 12.0 7.17 | (7.7, 17.3) (2.7, 13.7) | Ballymena Ballymoney |
| 6 | 14.2 | | 5 | 10.6 | (F 7 17 1) | | 13.1 | | |
| 31 | 9.9 | (8.3, 21.5) (7.9, 12.1) | 28 | 7.9 | (5.7, 17.1) (6.2, 9.8) | 6 55 | 100 | (7.6, 20.0) (13.6, 18.9) | Banbridge |
| 3 | 7.5 | (3.4, 13.2) | 4 | 10.1 | (5.2, 16.6) | 8 | 19.6 | (12.3, 28.5) | Carlow |
| 2 | 6.9 | (2.7, 12.8) | 7 | | (10.4, 25.8) | 5 | 13.2 | | Carrickfergus |
| 9 | 11.6 | (7.4, 16.6) | 8 | 9.5 | (6.0, 13.8) | 13 | 14.8 | (10.3, 20.0) | Castlereagh |
| 7 | 13.2 | (8.0, 19.6) | 4 | 5.5 | (2.7, 9.3) | 8 | 11.1 | (7.0, 16.2) | Cavan |
| 6 | 6.7 | (4.0, 10.1) | 6 | 6.0 | (3.5, 9.1) | 7 | 7.6 | (4.7, 11.3) | |
| 6 | 10.1 | (5.8, 15.6) | 5 | 7.7 | (4.3, 12.1) | 8 | 13.0 | (8.3, 18.9) | |
| 2 | 7.5 | (3.0, 14.2) | 1 | _ | _ | 2 | 7.18 | | Cookstown |
| 55 | 13.3 | (11.3, 15.4) | 39 | 8.9 | (7.3, 10.6) | 41 | 9.4 | (7.8, 11.2) | |
| 9 | 11.0 | , , | 7 | 9.2 | (5.8, 13.5) | 12 | | (10.1, 19.8) | |
| 7 | 7.8 | (4.8, 11.5) | 5 | 5.4 | (2.9, 8.6) | 14 | | (10.8, 20.1) | |
| 12 5 | 8.5 8.1 | (5.9, 11.6) (4.6, 12.6) | 10 7 | 7.1 | (4.7, 9.9) (6.8, 16.4) | 19 6 | 9.5 | (10.1, 17.4) (5.7, 14.4) | |
| 122 | 12.2 | (11, 13.5) | | 8.4 | (7.3, 9.5) | 159 | | (5.7, 14.4) (15.1, 18.1) | |
| 8 | 17 2 | (10.9, 24.8) | 2 | 4.3 | (1.5, 8.4) | 5 | 9.4 | | _ |
| 4 | 7.6 | (3.9, 12.3) | 3 | 5.0 | (2.3, 8.7) | 12 | | (12.1, 23.9) | Dungannon |
| 22 | 11.6 | (8.9, 14.7) | 14 | 6.8 | (4.8, 9.1) | 26 | 12.9 | (10.1, 16.0) | Galway |
| 13 | 9.3 | (6.5, 12.6) | 13 | 8.7 | (6.1, 11.8) | 17 | 11.6 | (8.5, 15.1) | |
| 11 | 9.8 | (6.6, 13.5) | 9 | 10.4 | (6.9, 14.7) | 12 | 13.6 | (9.4, 18.5) | |
| 7 | 9.7 | (6.0, 14.3) | 8 | 10.4 | (6.6, 15) | 9 | 11.1 | (7.2, 15.9) | Kilkenny |
| 4 | 7.7 | (4.0, 12.5) | 3 | 6.0 | (2.8, 10.5) | 2 | 4.44 | (1.8, 8.3) | Laois |
| 6 | 18.9 | (11.3, 28.5) | 3 | 8.7 | (3.9, 15.4) | 4 | 9.8 | (5.0, 16.3) | Larne |
| 4 | 11.0 | (5.2, 19.0) | 3 | 8.5 | (3.7, 15.4) | 4 | 12.7 | (6.5, 20.9) | |
| 1 | _ | _ | 3 | 11.7 | (5.3, 20.6) | 4 | 13.2 | (6.5, 22.1) | _ |
| 15 | 9.5 | (6.9, 12.6) | 11 | 6.5 | (4.4, 9.0) | 16 | 9.5 | (7.0, 12.4) | |
| 14 | 13.5 | (9.8, 17.9) | 10 | 9.4 | (6.3, 13.2) | 12 | 10.9 | (7.6, 14.9) | Lisburn |
| 4 10 | 13.3 11.7 | (6.7, 22.1) (7.9, 16.2) | 3 8 | 8.4 9.4 | (3.6, 15.2) (6.0, 13.5) | 6 16 | 15.9 17.7 | (9.2, 24.5) | |
| 2 | 5.5 | (1.9, 10.2) | | 8.1 | (3.6, 14.2) | | 12.8 | (13.0, 23.2) (6.8, 20.5) | Louth Magherafelt |
| 12 | 9.4 | (6.4, 13.0) | 9 | 6.5 | (4.1, 9.4) | 14 | 9.4 | (6.6, 12.6) | _ |
| 14 | 13.7 | (9.7, 18.2) | 8 | 7.7 | (4.1, 9.4) | 13 | 13.6 | (9.7, 18.3) | |
| 4 | 8.3 | (4.3, 13.5) | 5 | 8.0 | (4.3, 13.0) | 7 | 12.2 | (7.4, 18.1) | Monaghan |
| 2 | | (4.7, 23.4) | 1 | _ | _ ′ | 2 | 13 | (5.1, 24.4) | Moyle |
| 7 | 8.2 | (5.0, 12.3) | 3 | 3.9 | (1.8, 6.7) | 21 | 25.1 | | Newry & Mour |
| 9 | 10.6 | (6.9, 15.0) | 8 | 9.0 | (5.7, 12.9) | 12 | 12.9 | (8.9, 17.6) | Newtownabbe |
| 12 | 13.9 | | 6 | 6.0 | (3.4, 9.3) | 13 | 13.0 | (9.1, 17.5) | North Down |
| 6 | 11.4 | | 7 | 11.9 | (7.3, 17.7) | 8 | 12.6 | | Offaly |
| 3 | 5.9 | (2.5, 10.7) | 4 | 9.2 | (4.8, 15.0) | 7 | 14.7 | | Omagh |
| 5 | 8.7 | (4.8, 13.6) | 5 | 7.6 | (4.2, 12.1) | 7 | 10.1 | | Roscommon |
| 6 | 11.1 | | | _ | - | 7 | 8.7 | (5.2, 13.1) | Sligo |
| 3 | 9.1 | (4.3, 15.6) (7.0, 13.0) | 2 | 5.7 | (2.1, 11.2) | 6 | 14.5 | (8.4, 22.3) | Strabane |
| 14 17 | 9.8 | (7.0, 13.0) (13.5, 23.6) | 11 11 | 7.4 10.2 | (5.0, 10.2) (6.9, 14.0) | 17 12 | 11.1 | (8.2, 14.4) (8.7, 16.8) | lipperary |
| 6 | 9.9 | (5.9, 14.9) | | 7.7 | (4.3, 12.0) | | | (13.0, 25.7) | waterrord Westmeath |
| 10 | 9.6 | (6.5, 13.4) | 8 | 7.2 | (4.5, 10.5) | 12 | | (7.4, 14.5) | |
| 13 | | (9.3, 17.6) | | | (7.9, 16.0) | | 11.9 | (8.2, 16.2) | wextord Wicklow |
| 404 | 11.3 | (10.7, 12.0) | 296 | 8.1 | (7.5, 8.6) | 470 | | | Rep of Ireland |
| 174 | | (9.2, 11.0) | 148 | 8.2 | (7.4, 9.0) | 256 | 13.8 | (12.8, 14.8) | Rep of Ireland Northern Irelar |
| 578 | | (10.4, 11.4) | | 8.1 | (7.7, 8.6) | 725 | 13.2 | (12.6, 13.7) | All Ireland |
| | Ο- | toc adiu | etad | to E | uroneai | n stai | | d popul | |

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Appendix C2

Female incidence and age-adjusted rates for the

| 1-1 | àll | sites co | mbined | Ī | brea | st | ı | colore | ctal | l lun | ig & bro | onchus | | lympho | ma |
|--------------------|------------|----------------|----------------------------------|----------|----------------|--------------------------------|-----------------|--------------|------------------------------|----------|--------------|-----------------------------|----------|--------------|-----------------------------|
| county or | cases | | | cases | | 95% ci | cases | | 95% ci | cases | _ | | cases | | 95% ci |
| district council | per year | rate | 95% ci | per year | rate | 95% CI | per year | rate | 95% CI | per year | rate | 95% ci | per year | rate | 95% CI |
| Antrim | 80 | 331.7 | (290.2, 375.9) | 21 | 91.2 | (69.8, 115.3) | 10 | 39.5 | (26.3, 55.4) | 7 | 27.7 | (16.7, 41.5) | 4 | 13.8 | (6.7, 23.5) |
| Ards | 147 | 328.0 | (296.8, 360.7) | 49 | 114.7 | (96.2, 134.7) | 16 | 35.7 | (25.9, 47.0) | 13 | 28.2 | (19.8, 38.0) | 5 | 13.0 | (7.3, 20.4) |
| Armagh | 101 | 341.1 | (302.3, 382.2) | 28 | 104.4 | (82.7, 128.6) | 11 | 34.2 | (23.3, 47.3) | 10 | 33.5 | (22.3, 46.9) | 5 | 16.8 | (9.3, 26.6) |
| Ballymena | 122 | 346.7 | (310.7, 384.7) | 33 | 104.5 | (84.6, 126.4) | 19 | 50.5 | (37.7, 65.2) | 8 | 24.0 | (15.3, 34.7) | 8 | 22.4 | (14, 32.7) |
| Ballymoney | 46 | 304.4 | (253.3, 360.1) | 14 | 101.5 | (72.6, 135.1) | 7 | 40.8 | (23.9, 62.0) | 1 | _ | _ | 2 | 11.4 | (3.5, 23.9) |
| Banbridge | 78 | 359.8 | (313.9, 408.9) | 24 | 120.7 | (93.9, 150.9) | 11 | 48.6 | (33.1, 67.1) | 5 | 23.3 | (13.1, 36.3) | 3 | 11.8 | (5, 21.4) |
| Belfast | 659 | 362.4 | (345.2, 379.9) | 162 | 101.7 | (92.3, 111.6) | 80 | 38.7 | (33.5, 44.3) | 104 | 55.2 | (48.8, 62.0) | 26 | 14.3 | (11.1, 18) |
| Carlow | 78 | 381.2 | (332.9, 432.8) | 22 | 112.3 | (86.3, 141.6) | 6 | 25.4 | (14.6, 39.2) | 6 | 26.7 | (15.5, 40.9) | 3 | 15.2 | (6.8, 26.8) |
| Carrickfergus | 73 | 332.1 | (288.0, 379.3) | 22 | 111.8 | (85.8, 141.2) | 6 | 26.4 | (15.6, 40.0) | 8 | 35.2 | (22.2, 51.0) | 5 | 20.2 | (10.7, 32.6) |
| Castlereagh | 147 | 325.4 | (293.8, 358.6) | 40 | 98.8 | (81.0, 118.2) | 18 | 33.2 | (24.4, 43.3) | 14 | 25.2 | (17.6, 34.0) | 9 | 20.9 | (13.4, 30.1) |
| Cavan | 87 | 283.8 | (248.1, 321.8) | 24 | 90.1 | (69.5, 113.3) | 15 | 46.8 | (33.3, 62.6) | 7 | 20.9 | (12.6, 31.3) | 4 | 16.3 | (8.6, 26.5) |
| Clare | 131 | 263.5 | ` ' ' | 36 | 77.3 | (62.9, 93.2) | 12 | 23.7 | (16.3, 32.5) | 8 | 15.7 | (10.0, 22.8) | 5 | 9.0 | (4.8, 14.5) |
| Coleraine | 120 | 355.1 | (317.8, 394.4) | 30 | 98.2 | (78.5, 120.2) | 17 | 44.6 | (32.5, 58.5) | 12 | 33.7 | (23.2, 46.2) | 7 | 22.1 | (13.5, 32.6) |
| Cookstown | 50 | 295.5 | (248.2, 346.8) | 13 | 85.8 | (60.6, 115.3) | 6 | 36.9 | (21.5, 56.3) | 4 | 23.7 | (12.2, 39.1) | 2 | 11.7 | (4.1, 23.3) |
| Cork | 746 | 333.8 | (319.6, 348.2) | 215 | 103.5 | (95.5, 111.8) | 107 | 44.6 | (39.6, 49.8) | 62 | 26.7 | (22.9, 30.8) | 24 | 11.0 | (8.6, 13.7) |
| Contractor | 154 | 347.7 | (315.6, 381.3) | 45 | 110.3 | (92.1, 130.2) | 20 | 41.5 | (31.3, 53.0) | 16 | 35.9 | (26.2, 47.0) | 8 | 18.6 | (11.0.26.8) |
| Craigavon Derry | 185 | 385.7 | (353.6, 419.1) | 45 57 | 120.4 | (102.8, 139.4) | 20 | 41.0 | (31.1, 52.3) | 21 | 43.6 | (33.3, 55.2) | 6 | 12.5 | (11.9, 26.8) (7.3, 19.1) |
| Donegal | 219 | 304.5 | (280.3, 329.6) | 56 | 86.7 | (73.5, 100.9) | 31 | 39.2 | (31.1, 48.2) | 23 | 32.7 | (25.1, 41.4) | 7 | 9.4 | (5.8, 14) |
| Down | 123 | 354.3 | , | 36 | 113.7 | (92.5, 137.0) | 15 | 38.0 | (27.2, 50.7) | 11 | 31.3 | (21.3, 43.1) | 7 | 20.3 | (12.2, 30.3) |
| Dublin | 1969 | 360.7 | (351.3, 370.1) | 577 | 112.8 | (107.4, (118.2) | 225 | 40.0 | (37.0, 43.2) | 230 | 41.2 | (38.1, 44.4) | 75 | 13.3 | (11.6, 15.2) |
| | - 04 | 004.0 | 200 0 440 5) | I 04 | 405.5 | (00.0.404.0) | - I 40 | 40.0 | (0.4.000.0) | I e | 40.0 | (40.0.00.4) | | 47.0 | (0.0.00.0) |
| Dungannon | 91 | 364.3 | . , | 24 | 105.5 120.7 | (82.0, 131.9) | 13 | 49.2 35.1 | (34.6, 66.3) | 5 | 18.2 | (10.2, 28.4) | 4 5 | 17.6 | (9.2, 28.8) |
| Fermanagh | 105 300 | 323.2 304.6 | (286.4, 362.2 (284.1, 325.8) | 34 87 | 97.2 | (97.7, 146.1) (85.4, 109.8) | 13 39 | 36.1 | (24.4, 47.8) (29.5, 43.3) | 6 19 | 16.7 17.3 | (9.5, 25.9) (12.9, 22.3) | 10 | 15.1 10.7 | (8.1, 24.1) (7.2, 15) |
| Galway | 232 | 321.8 | | 69 | 106.9 | (92.4, 122.5) | 30 | 38.4 | (30.4, 47.2) | 18 | 22.8 | (16.8, 29.8) | 9 | 14.0 | (9.1, 19.9) |
| Kerry Kildare | 193 | | (341.3, 404.1) | 60 | 115.5 | (98.6, 133.6) | 24 | 45.5 | (35.3, 56.9) | 14 | 31.3 | (22.4, 41.6) | 10 | 17.5 | (11.5, 24.7) |
| Niuaie | | | (= , | | | (, | | | (,) | | | (==::, ::::) | | | (, =) |
| Kilkenny | 116 | 289.6 | , , | 33 | 87.3 | (70.5, 106.0) | 15 | 34.9 | (25.0, 46.3) | 8 | 19.1 | (12.0, 27.9) | 5 | 11.2 | (6.2, 17.7) |
| Laois | 83 | 307.3 | (269.1, 347.9) | 24 | 93.7 | (72.8, 117.2) | 11 | 37.4 | (25.2, 52.0) | 6 | 22.8 | (13.3, 34.9) | 5 | 17.3 | (9.3, 27.8) |
| Larne | 68 | 344.6 | , , | 17 | 92.9 | (68.4, 121.0) | 10 | 44.5 | (29.3, 62.7) | 4 | 20.2 | (10.3, 33.4) | 4 | 18.0 | (8.7, 30.5) |
| Leitrim | 58 54 | 359.7 387.7 | (303.5, 420.5) (329.3, 450.8) | 14 15 | 99.5 114.1 | (70.2, 133.7) (83.1, 149.9) | 10 8 | 51.4 50.3 | (32.6, 74.3) (31.5, 73.6) | 2 | 13.6 18.3 | (4.9, 26.6) (7.2, 34.4) | 2 | 13.2 16.4 | (4.0, 28.0) (6.4, 30.9) |
| Limavady | 54 | 307.7 | (323.3, 430.0) | 13 | 114.1 | (05.1, 145.5) | ı ° | 30.3 | (31.3, 73.0) | 2 | 10.5 | (7.2, 34.4) | 2 | 10.4 | (0.4, 30.3) |
| Limerick | 259 | 308.9 | 286.9, 331.7) | 72 | 92.0 | (79.9, 105.0) | 27 | 32.0 | (25.2, 39.6) | 25 | 30.4 | (23.8, 37.9) | 13 | 15.5 | (10.9, 20.9) |
| Lisburn | 193 | 330.7 | (303.6, 359.0) | 47 | 86.5 | (72.5, 101.6) | 27 | 44.9 | (35.3, 55.6) | 21 | 35.2 | (26.8, 44.7) | 8 | 14.0 | (8.9, 20.2) |
| Longford | 59 | 364.4 | (309.9, 423.1) | 15 | 106.3 | (76.5, 140.9) | 9 | 50.4 | (32.2, 72.6) | 6 | 35.2 | (20.0, 54.5) | 1 | _ | _ |
| Louth | 166 | 336.7 | (306.8, 368.0) | 44 | 97.3 | (81.1, 115.0) | 19 | 35.4 | (26.5, 45.6) | 17 | 31.7 | (23.3, 41.3) | 5 | 11.0 | (6.1, 17.3) |
| Magherafelt | 68 | 345.1 | (297.8, 395.9) | 19 | 103.9 | (78.0, 133.3) | 11 | 49.5 | (33.3, 68.9) | 3 | 18.0 | (8.4, 31.2) | 1 | _ | _ |
| Mayo | 200 | 310.4 | 284.3, 337.7) | 55 | 97.5 | (82.6, 113.6) | 27 | 36.5 | (28.4, 45.7) | 14 | 18.9 | (13.1, 25.7) | 7 | 9.1 | (5.3, 13.9) |
| Meath | 170 | 333.0 | (303.9, 363.4) | 50 | 104.5 | (88.1, 122.3) | 22 | 42.2 | (32.4, 53.2) | 17 | 31.5 | (23.1, 41.2) | 7 | 13.6 | (8.2, 20.4) |
| Monaghan | 81 | 310.2 | (271.0, 352.0) | 19 | 79.5 | (60.0, 101.8) | 11 | 39.6 | (26.5, 55.1) | 4 | 14.1 | (7.3, 23.1) | 4 | 14.8 | (7.4, 24.8) |
| Moyle | 32 | | (260.5, 396.5) | 8 | 81.8 | (51.0, 119.9) | 5 | 52.9 | (29.4, 83.2) | 5 | 49.3 | (26.8, 78.4) | 1 | _ | _ |
| Newry & Mourne | 158 | 357.3 | (324.9, 391.4) | 44 | 105.6 | (87.9, 124.9) | 23 | 46.9 | (36.1, 59.1) | 15 | 32.6 | (23.4, 43.1) | 7 | 17.7 | (10.9, 26.2) |
| Newtownabbey | 150 | 307.8 | 279.0, 338.1) | 43 | 100.4 | (83.5, 118.8) | 21 | 39.7 | (30.1, 50.6) | 17 | 30.6 | (22.4, 40.1) | 6 | 15.4 | (9.2, 23.1) |
| North Down | 187 | | (327.7, 391.8) | 56 | | (100.8, (138.7) | | 45.9 | (35.5, 57.5) | 15 | 27.2 | (19.3, 36.4) | 8 | 11.5 | (6.9, 17.4) |
| Offaly | 104 | 345.9 | (307.5, 386.6) | 31 | 110.6 | (88.8, 134.7) | 11 | 30.6 | (20.7, 42.5) | 8 | 26.9 | (17.0, 39.0) | 3 | 9.5 | (4.3, 16.8) |
| Omagh | 74 | 298.7 | (258.9, 341.2) | 24 | 104.6 | (81.0, 131.2) | 11 | 38.9 | (26.3, 53.9) | 6 | 25.1 | (14.4, 38.7) | 4 | 15.2 | (7.3, 25.9) |
| Roscommon | 93 | 275.8 | (241.9, 312.0) | 24 | 80.0 | (61.4, 101.0) | 15 | 39.5 | (28.0, 53.0) | 8 | 19.6 | (12.2, 28.6) | 2 | 7.3 | (2.5, 14.7) |
| Sligo | 104 | 329.7 | 292.2, 369.5) | 28 | 101.4 | (80.3, 124.8) | 15 | 42.1 | (29.8, 56.5) | 12 | 36.4 | (25.0, 50.0) | 4 | 15.2 | (7.9, 24.9) |
| Strabane | 60 | | (263.5, 355.7) | 18 | 99.0 | (73.9, 127.8) | 9 | 41.9 | (27.5, 59.5) | 5 | 23.7 | (12.8, 38.0) | 2 | 11.5 | (4.2, 22.6) |
| Tipperary | 233 | | (296.2, 345.1) | 61 | 88.6 | (75.9, 102.2) | 36 | 47.6 | (38.8, 57.4) | 18 | 24.5 | (18.1, 31.7) | 10 | 14.9 | (10, 20.8) |
| Waterford | 173 | | (315.6, 376.8) | 40 | 87.3 | (72.1, 103.8) | 21 | 40.6 | (31.0, 51.5) | 14 | 26.6 | (19.0, 35.5) | 7 | 13.9 | (8.4, 20.8) |
| Westmeath | 109 | 328.9 | (293.0, 366.7) | 29 | 93.0 | (73.9, 114.1) | 17 | 49.8 | (36.4, 65.3) | 9 | 22.7 | (14.5, 32.6) | 4 | 10.9 | (5.3, 18.5) |
| M. 6. 1 | 178 | 320 4 | 300.2, 357.3) | 51 | 99.5 | (84.1, 116.3) | 21 | 36.6 | (27.8, 46.6) | 22 | 37.0 | (29.0, 47.9) | 7 | 12.6 | (8 2 20 4) |
| Wexford | 178 | | (322.4, 383.2) | | 109.0 | | | 43.5 | (33.6, 54.7) | 16 | 37.8 31.2 | (29.0, 47.9) | 7 6 | 13.6 11.5 | (8.3, 20.1) (6.8, 17.3) |
| Wicklow | 102 | JJZ.Z | (322.7, 303.2) | . 33 | 108.0 | (32.7, 121.0) | l ²³ | 73.5 | (00.0, 04.1) | . '0 | J 1.Z | (22.1, 41.0) | . " | 11.5 | (0.0, 11.0) |
| Rep of Ireland | 6321 | | 328.3, 338.1) | 1789 | 101.8 | , , | 797 | 39.7 | (38.1, 41.4) | 593 | 30.1 | (28.6, 31.5) | 239 | 12.6 | (11.7, 13.6) |
| Northern Ireland | 3326 | | (337.0, 351.2) | 926 | | (100.8, 108.8) | 434 | 41.0 | (38.6, 43.3) | 340 | 33.7 | (31.5, 35.8) | 149 | 15.6 | (14.1, 17.1) |
| All Ireland | 9647 | 336.7 | (332.7, 340.7) | 2715 | 102.7 | (100.5, 105.0) | 1232 | 40.1 | (38.8, 41.5) | 933 | 31.2 | (30.0, 32.4) | 388 | 13.6 | (12.8, 14.4) |

(332.7, 340.7) 2715 102.7 (100.5, 105.0) 1232 40.1 (38.8, 41.5) 933 **Rates adjusted to European standard population**

major cancer sites by county and district council, 1998-2000 annual average

| melanoma of skin | | , ا | agus | Ī | stoma | ach | | | |
|-------------------|--------------|----------------------------|----------------------|-------------|---------------------------|----------------------|------|----------------------------|-------------------------------|
| cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | county or district council |
| 4 | 15.4 | (7.5, 26.0) | 1 | - | - | 1 | _ | _ | Antrim |
| 6 | 13.3 | (7.8, 20.3) | 3 | 5.2 | (2.1, 9.8) | 3 | 5.3 | (2.2, 9.8) | Ards |
| 4 | 15.5 | (7.9, 25.7) | 3 | 9.5 | (4.1, 17.1) | 2 | 5.7 | (1.9, 11.6) | Armagh |
| 2 | 4.7 | (1.4, 9.9) | 2 | 3.7 | (1.3, 7.3) | 3 | 5.1 | (2.1, 9.4) | Ballymena |
| 1 | - | - | 1 | - | - | 1 | - | - | Ballymoney |
| 4 | 16.7 | (8.4, 27.8) | 1 | _ | - | 3 | 10.2 | (4.4, 18.4) | Banbridge |
| 19 | 10.2 | (7.5, 13.2) | 13 | 5.3 | (3.7, 7.3) | 22 | 10.7 | (8.1, 13.8) | Belfast |
| 3 | 13.2 | (5.6, 24.1) | 3 | 11.8 | (5.0, 21.6) | 4 | 23.2 | (12.1, 37.8) | Carlow |
| 2 5 | 9.4 | (3.0, 19.4) (7.4, 22.0) | 3 | 12.3 6.7 | (5.4, 22.0) | 1 5 | 8.3 | - (4.4, 13.5) | Carrickfergus Castlereagh |
| | | , , , , | | | (5,, | | | , , | |
| 3 | 8.9 | (3.7, 16.4) | 1 | _ | (0.4.0.0) | 3 | 8.4 | (3.7, 15.1) | Cavan |
| 4 | 9.3 | (4.8, 15.2) | 3 | 4.9 | (2.1, 8.8) | 3 4 | 6.3 | (2.8, 11.1) | Clare |
| 4 1 | 12.2 | (5.9, 20.7) | 2 1 | 3.8 | (1.5, 7.1) | 1 | 11.2 | (5.5, 19.0) | Coleraine |
| 34 | 15.7 | (12.7, 19.0) | 17 | 6.6 | (4.8, 8.6) | 14 | 5.2 | (3.7, 7.1) | Cookstown Cork |
| 6 | 15.0 | (8.8, 22.8) | 2 | 5.1 | (2.0, 9.5) | 3 | 7.1 | (3.3, 12.4) | |
| 5 | 9.4 | (5.1, 15.1) | 2 | 3.3 | (1.0, 7.0) | 7 | 12.4 | (7.5, 18.6) | Craigavon |
| 7 | 9.7 | (5.8, 14.6) | 4 | 4.9 | (2.4, 8.3) | 8 | 10.7 | (6.7, 15.6) | Derry |
| 3 | 7.9 | (3.4, 14.2) | 1 | _ | - | 3 | 7.1 | (2.9, 13.1) | Donegal Down |
| 77 | 13.9 | (12.2, 15.8) | 34 | 5.6 | (4.5, 6.8) | 64 | 10.9 | (9.4, 12.5) | Dublin |
| 6 | 23.1 | (13.3, 35.5) | 2 | 6.3 | (1.9, 13.4) | 2 | 5.0 | (1.5, 10.5) | Dungannon |
| 2 | 8.0 | (2.9, 15.7) | 1 | _ | _ | 4 | 11.9 | (6.1, 19.7) | Fermanagh |
| 13 | 13.2 | (9.2, 17.8) | 7 | 6.0 | (3.5, 9.1) | 10 | 9.2 | (6.1, 13.0) | Galway |
| 6 | 10.1 | (6.0, 15.2) | 5 | 6.9 | (3.8, 10.8) | 5 | 6.2 | (3.3, 10.1) | Kerry |
| 5 | 8.5 | (4.8, 13.2) | 3 | 6.9 | (3.2, 11.9) | 4 | 8.5 | (4.3, 14.2) | Kildare |
| 5 | 12.2 | (6.6, 19.5) | 3 | 7.3 | (3.3, 13.0) | 3 | 8.1 | (3.7, 14.1) | Kilkenny |
| 3 | 8.5 | (3.5, 15.7) | 1 | _ | - | 1 | _ | - | Laois |
| 3 | 15.3 | (6.4, 28.0) | 2 | 8.5 | (2.6, 18.1) | 2 | 7.4 | (2.3, 15.5) | Larne |
| 2 | 15.7 | (5.8, 30.5) | 0 | - | - | 1 | _ | - | Leitrim |
| 1 | - | - | 2 | 13.7 | (4.4, 28.1) | 1 | _ | - | Limavady |
| 9 | 10.4 | (6.7, 14.9) | 5 | 4.6 | (2.4, 7.3) | 6 | 5.0 | (2.9, 7.8) | Limerick |
| 8 | 14.7 | (9.4, 21.2) | 4 | 7.7 | (4.0, 12.6) | 5 | 7.0 | (3.7, 11.3) | Lisburn |
| 2 | 14.6 | (5.7, 27.6) | 1 | | - | 2 | 8.6 | (3.1, 16.8) | Longford |
| 8 | 15.8 | (9.9, 23.1) | 3 | 4.7 | (1.9, 8.7) | 6 | 10.4 | (6.0, 16.0) | Louth |
| 1 | _ | _ | 1 | _ | _ | 3 | 13.5 | (5.5, 25.1) | Magherafelt |
| 7 | 11.0 | (6.6, 16.5) | 2 | 2.8 | (0.9, 5.9) | 5 | 4.6 | (2.5, 7.4) | Mayo |
| 8 | 15.8 | (10.1, 22.8) | 2 | 3.4 | (1.2, 6.8) | 2 | 4.7 | (1.8, 8.9) | Meath |
| 2 | 9.1 | (3.5, 17.3) | 3 | 6.8 | (2.7, 12.7) | 2 1 | 9.3 | (3.6, 17.8) | Monaghan |
| 2 4 | 9.9 | (7.0, 40.9) (5.1, 16.1) | 0 1 | | _ | 7 | 14.9 | (9.2, 22.0) | Moyle Newry & Mourne |
| - | | | , | | (2.4.0.9) | | 6.4 | | |
| 5 8 | 11.1 | (6.1, 17.5) | 3 2 | 5.5 3.0 | (2.4, 9.8) | 4 7 | 6.4 | (3.3, 10.5) | Newtownabbey |
| 4 | 17.7 14.7 | (11.0, 26) (7.5, 24.2) | 4 | 11.0 | (1.0, 5.9) (5.3, 18.7) | 4 | 9.6 | (5.5, 14.8) (6.2, 20.3) | North Down |
| 2 | 6.5 | (2.0, 13.6) | 2 | 6.0 | (1.8, 12.6) | 3 | 12.6 | (5.9, 21.9) | Offaly Omagh |
| 4 | 12.0 | (5.7, 20.7) | 2 | 3.7 | (1.3, 7.1) | 3 | 9.2 | (3.8, 16.8) | Roscommon |
| 2 | 7.6 | (2.9, 14.6) | 1 | | _ | 3 | 6.8 | (2.7, 12.7) | 0" |
| 2 | 12.1 | (4.8, 22.7) | 1 | _ | _ | 2 | 8.0 | (2.9, 15.8) | Sligo Strabane |
| 10 | 14.5 | (9.7, 20.2) | 4 | 5.8 | (3.0, 9.4) | 6 | 7.8 | (4.6, 11.9) | Tipperary |
| 12 | 24.8 | (17.1, 33.9) | 5 | 8.5 | (4.7, 13.6) | 5 | 9.4 | (5.1, 15.0) | Waterford |
| 5 | 14.9 | (8.2, 23.6) | 2 | 4.1 | (1.3, 8.5) | 5 | 14.7 | (7.9, 23.7) | Westmeath |
| 6 | 10.9 | (6.4, 16.7) | 2 | 2.4 | (0.7, 5.1) | 6 | 9.4 | (5.3, 14.5) | Wexford |
| 7 | 14.2 | (8.8, 21.0) | 4 | 6.9 | (3.5, 11.5) | 7 | 11.7 | (7.0, 17.5) | Wicklow |
| 249 | 13.3 | (12.3, 14.3) | 120 | 5.6 | (5.0, 6.2) | 183 | 8.7 | (8.0, 9.5) | Rep of Ireland |
| 108 | 11.7 | (10.4, 13.1) | 60 | 5.3 | (4.6, 6.2) | 98 | 8.7 | (7.7, 9.8) | Northern Ireland |
| 357 | 12.7 | (12, 13.5) | 180 | 5.5 | (5.0, 6.0) | 281 | 8.7 | (8.1, 9.4) | All Ireland |
| | D- | 4 | - 4 1 | | | | | | lation |

Appendix C3

Male incidence and age-adjusted rates for the

| | L 20 | -: | | | | -4-1 | | - 0 | | | | |
|------------------------|-------------------|----------|----------------|-------------------|--------|---------------|-------------------|---------|---------------|-------------------|--------|--------------|
| county or | | sites co | ombined | | colore | ciai | | g & bro | onchus | | lympho | ma |
| district council | cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci |
| uistrict courier | l. , | | | l. , | | | . , | | | r ´ | | |
| (Antrim | (72)) | 358.3 | (311.8, 407.9) | 9 | 46.4 | (30.4, 65.6) | 11 | 53.2 | (36.4, 73.2) | 1 | _ | _ |
| (Ards | (125)) | 344.3 | (310.0, 380.3) | 18 | 48.8 | (36.4, 62.9) | 17 | 47.0 | (35.0, 60.8) | 8 | 20.8 | (13.1, 30.2) |
| (Armagh | (94)) | 383.5 | (339.6, 430.0) | 11 | 46.5 | (32.1, 63.6) | 17 | 70.5 | (52.4, 91.2) | 5 | 21.7 | (12.3, 33.6) |
| | (99) | 332.1 | (295.1, 371.4) | 17 | 56.4 | (41.8, 73.2) | 16 | 51.6 | (37.8, 67.5) | 4 | 14.0 | (7.2, 23.0) |
| (Ballymena | 49) | 377.1 | , | | 83.3 | ' | | 77.3 | | | 18.2 | |
| Ballymoney | 49) | 311.1 | (317.6, 441.6) | I '' | 03.3 | (57.0, 114.5) | 10 | 11.3 | (51.5, 108.3) | | 10.2 | (7.2, 34.2) |
| | 74) | 376.9 | (207.0.400.7) | 10 | 52.1 | (24.7. 70.0) | 10 | 54.0 | (20.2.75.4) | 5 | 26.8 | (14.9, 42.1) |
| Banbridge | 71) | | (327.6, 429.7) | | | (34.7, 72.9) | | | (36.3, 75.1) | | | , , |
| Belfast | 597) | 440.1 | (419.6, 461.1) | 83 | 61.6 | (54.1, 69.7) | 134 | 97.8 | (88.3, 107.8) | 29 | 22.2 | (17.7, 27.1) |
| Carlow | 76) | 408.4 | (356.4, 463.9) | 10 | 59.3 | (39.8, 82.6) | 12 | 63.8 | (44.1, 87.0) | 3 | 18.1 | (8.4, 31.3) |
| Carrickfergus | 60) | 349.6 | (299.6, 403.4) | 6 | 33.8 | (20.0, 51.2) | 13 | 73.4 | (52.0, 98.5) | 3 | 16.3 | (7.4, 28.7) |
| Castlereagh | 138) | 370.0 | (334.3, 407.5) | 23 | 58.4 | (45.1, 73.5) | 25 | 68.6 | (53.6, 85.5) | 3 | 9.8 | (4.6, 16.9) |
| | | | | | | | | | | | | |
| Cavan | 119) | 394.0 | (353.3, 436.9) | 19 | 64.6 | (48.7, 82.7) | 15 | 51.7 | (37.6, 68.1) | 4 | 14.6 | (7.5, 24.0) |
| Clare | 150) | 315.0 | (286.2, 345.2) | 28 | 57.1 | (45.3, 70.2) | 24 | 49.3 | (38.4, 61.6) | 8 | 16.4 | (10.4, 23.9) |
| Coleraine | 95) | 350.3 | (310.4, 392.5) | 16 | 58.3 | (42.7, 76.3) | 15 | 54.0 | (39.1, 71.3) | 6 | 21.1 | (12.2, 32.4) |
| Cookstown | 49) | 329.9 | (278.0, 386.2) | 6 | 43.8 | (26.2, 65.8) | 11 | 75.5 | (52.1, 103.2) | 1 | _ | _ |
| Cork | 783 | 412.7 | (396.0, 429.7) | 131 | 69.9 | (63.1, 77.0) | 109 | 56.6 | (50.6, 62.9) | 32 | 16.5 | (13.3, 20.0) |
| | _ | | | _ | | | _ | | | _ | | |
| Craigavon | 134 | 371.9 | (336.1, 409.4) | 24 | 67.8 | (52.9, 84.6) | 24 | 65.9 | (51.3, 82.2) | 8 | 22.6 | (14.4, 32.6) |
| Derry | 166 | 441.7 | (403.1, 482.1) | 27 | 73.7 | (58.3, 90.7) | 34 | 91.0 | (73.9, 109.8) | 7 | 17.9 | (11.1, 26.2) |
| Donegal | 270 | 392.3 | (365.1, 420.4) | 41 | 59.8 | (49.4, 71.1) | 37 | 57.0 | (46.8, 68.3) | 9 | 13.9 | (9.1, 19.7) |
| Down | 114 | 396.2 | (355.0, 439.7) | 17 | 58.6 | (43.5, 75.9) | 17 | 61.0 | (45.4, 78.8) | 4 | 12.4 | (6.1, 20.9) |
| Dublin | 1860 | 472.2 | (459.8, 484.8) | 274 | 70.4 | (65.6, 75.3) | 323 | 83.4 | (78.2, 88.7) | 79 | 18.4 | (16.1, 20.9) |
| Dubiiii | | | (, , | • | | (, | | | (- , - , | | | (- , , |
| Dungannon | 80 | 371.3 | (325.3, 420.2) | 11 | 53.2 | (36.7, 72.6) | 15 | 69.3 | (50.4, 91.1) | 6 | 28.0 | (16.5, 42.5) |
| Fermanagh | 110 | 362.7 | (323.9, 403.7) | 17 | 55.8 | (41.3, 72.4) | 14 | 47.0 | (33.8, 62.3) | 7 | 23.6 | (14.3, 35.2) |
| - | 370 | 395.9 | (372.6, 419.9) | 66 | 71.1 | (61.4, 81.5) | 51 | 55.4 | (46.9, 64.7) | 18 | 19.7 | (14.8, 25.4) |
| Galway | 280 | 402.1 | (374.8, 430.3) | 41 | 60.5 | (50.1, 71.9) | 35 | 50.9 | (41.4, 61.2) | 14 | 20.5 | (14.7, 27.3) |
| Kerry | 186 | 424.8 | (389.2, 461.9) | 28 | 65.9 | (52.5, 80.8) | 28 | 69.3 | (55.1, 85.1) | 8 | 15.1 | |
| Kildare | 100 | 424.0 | (309.2, 401.9) | 20 | 00.9 | (32.3, 60.6) | 20 | 09.3 | (55.1, 65.1) | ٥ | 15.1 | (9.4, 22.3) |
| | 125 | 334.9 | (201 2 270 2) | 17 | 45.2 | (33.5, 58.6) | 17 | 44.8 | (33.3, 57.9) | 4 | 10.1 | (5.0, 17.0) |
| Kilkenny | | | (301.3, 370.2) | 9 | | | | | | 3 | | |
| Laois | 82 | 303.3 | (266.0, 343.1) | | 33.2 | (22.0, 46.8) | 12 | 43.6 | (30.3, 59.3) | | 12.6 | (5.9, 21.7) |
| Larne | 56 | 353.5 | (300.8, 410.4) | 6 | 40.1 | (23.9, 60.4) | 9 | 56.3 | (36.6, 80.2) | 3 | 17.0 | (7.3, 30.6) |
| Leitrim | 59 | 343.3 | (292.7, 397.7) | 10 | 57.3 | (38.3, 79.9) | 9 | 57.3 | (37.1, 81.9) | 2 | 11.7 | (3.6, 24.4) |
| Limavady | 44 | 343.0 | (286.7, 404.3) | 6 | 45.8 | (27.0, 69.3) | 8 | 65.7 | (42.0, 94.6) | 1 | _ | _ |
| | | | | | | l | | | | | | |
| Limerick | 278 | 388.8 | (362.6, 415.9) | 48 | 66.8 | (56.3, 78.3) | 45 | 63.2 | (52.9, 74.4) | 12 | 16.4 | (11.5, 22.1) |
| Lisburn | 158 | 344.8 | (314.3, 376.7) | 21 | 45.9 | (35.3, 58.0) | 27 | 59.5 | (47.2, 73.3) | 8 | 16.5 | (10.6, 23.8) |
| Longford | 74 | 444.5 | (386.5, 506.4) | 10 | 61.7 | (40.9, 86.8) | 11 | 68.1 | (46.5, 93.8) | 2 | 11.0 | (3.8, 21.8) |
| Louth | 166 | 434.4 | (396.4, 474.0) | 25 | 68.2 | (53.3, 84.8) | 33 | 85.8 | (69.5, 103.7) | 6 | 15.9 | (9.4, 24.2) |
| Magherafelt | 58 | 338.1 | (289.2, 390.8) | 10 | 54.6 | (36.4, 76.4) | 10 | 58.3 | (39.3, 81.1) | 2 | 12.7 | (4.6, 24.8) |
| | | | | | | | - | | | - | | |
| Mayo | 241 | 366.4 | (339.3, 394.5) | 45 | 67.2 | (55.9, 79.6) | 31 | 47.3 | (37.9, 57.7) | 10 | 15.1 | (10.0, 21.1) |
| Meath | 198 | 441.5 | (406.2, 478.3) | 34 | 76.6 | (62.3, 92.3) | 25 | 56.1 | (43.9, 69.7) | 10 | 20.8 | (14.0, 28.8) |
| Monaghan | 98 | 378.2 | (335.3, 423.5) | 15 | 58.4 | (42.1, 77.2) | 12 | 46.7 | (32.2, 63.8) | 3 | 13.4 | (6.4, 23.0) |
| Moyle | 34 | 406.1 | (330.0, 490.0) | 5 | 61.0 | (33.7, 96.3) | 5 | 55.3 | (30.1, 87.9) | 1 | _ | _ |
| Newry & Mourne | 143 | 397.5 | (360.2, 436.7) | 29 | 84.5 | (67.5, 103.3) | 20 | 53.9 | (41.0, 68.5) | 8 | 20.6 | (13.0, 29.9) |
| | | | | | | | | | | | | |
| Newtownabbey | 152 | 400.1 | (363.6, 438.2) | 28 | 74.0 | (58.6, 91.1) | 24 | 59.9 | (46.7, 74.7) | 6 | 16.6 | (10.0, 25.0) |
| North Down | 145 | 346.9 | (314.5, 380.8) | 23 | 52.5 | (40.6, 65.9) | 17 | 38.7 | (28.6, 50.3) | 8 | 20.8 | (13.2, 30.0) |
| Offaly | 107 | 371.1 | (331.2, 413.2) | 15 | 51.9 | (37.7, 68.3) | 14 | 45.2 | (32.3, 60.3) | 5 | 16.3 | (8.9, 25.9) |
| Omagh | 87 | 413.6 | | 23 | 48.3 | (37.3, 60.7) | 18 | 39.2 | (29.2, 50.7) | 6 | 14.5 | (8.6, 21.9) |
| Roscommon | 109 | 328.4 | . , | | 47.0 | (37.7, 57.2) | | 32.6 | (25.0, 41.1) | | 8.6 | (4.7, 13.5) |
| 11000011111011 | | | , | | | , , , | | | , , | • | | , , |
| Sligo | 123 | 407.9 | (366.6, 451.5) | 30 | 48.0 | (38.2, 58.8) | 31 | 47.9 | (38.3, 58.5) | 8 | 13.2 | (8.3, 19.3) |
| Strabane | 60 | 362.9 | (311.6, 418.0) | 18 | 48.7 | (36.6, 62.6) | 13 | 36.5 | (25.9, 48.8) | 5 | 13.6 | (7.4, 21.6) |
| Tipperary | 256 | 332.8 | (309.3, 357.2) | 74 | 48.5 | (42.2, 55.3) | 54 | 35.1 | (29.8, 40.9) | 22 | 15.5 | (11.9, 19.5) |
| | 183 | 415.5 | (381.2, 451.3) | 49 | 51.6 | (43.5, 60.4) | 41 | 42.8 | (35.5, 50.7) | 14 | 15.2 | (11.0, 20.1) |
| Waterford Westmeath | 137 | 459.8 | | 37 | 58.0 | (45.5, 60.4) | 31 | 45.3 | (36.4, 55.3) | 10 | 15.2 | (10.5, 21.6) |
| vvestmeatn | 137 | 400.0 | (410.0, 000.0) | 57 | 30.0 | (47.4, 03.0) | 31 | 40.0 | (50.4, 55.5) | 10 | 13.0 | (10.5, 21.0) |
| 18/ | 200 | 411.9 | (379.5, 445.7) | 48 | 45.6 | (38.3, 53.4) | 53 | 49.6 | (42.1, 57.8) | 14 | 14.0 | (10.0, 18.6) |
| Wexford | 184 | 411.9 | (400.2, 473.6) | | 45.6 | ` ' ' | | | | 18 | | |
| Wicklow | 184 | 430. I | (400.2, 473.0) | 44 | 45.9 | (38.3, 54.2) | 42 | 45.5 | (37.8, 53.9) | 18 | 17.8 | (13.3, 23.0) |
| | 6740 | 400.4 | (402 0 44F O | 1004 | E0.0 | (40.3 50.0) | 1640 | 14.7 | (42 4 45 C) | 500 | 14.0 | (12.0.45.4) |
| Rep of Ireland | 6716 | 409.4 | (403.8, 415.2) | 1831 | 50.6 | (49.3, 52.0) | 1612 | 44.7 | (43.4, 45.9) | 523 | 14.6 | (13.9, 15.4) |
| Northern Ireland | 2991 | 382.4 | (374.4, 390.4) | 889 | 48.3 | (46.4, 50.2) | 862 | 47.6 | (45.7, 49.5) | 291 | 16.8 | (15.7, 18.0) |
| All Ireland | 9707 | 400.6 | (396.0, 405.2) | 2720 | 49.8 | (48.7, 50.9) | 2474 | 45.6 | (44.5, 46.7) | 814 | 15.4 | (14.7, 16.0) |

major cancer sites by county and district council, 1998-2000 annual average

| najor cancer sites | | | | • | | | | | | | | | ı | |
|--------------------|-------------------|------------|----------------------------|-------------------|-------------|------------------------------|-------------------|--------------|------------------------------|-------------------|--------------|-----------------------------|------------------------------|--|
| | m | nelanoma | of skin | | oesopha | agus | | prosta | ate | | Stomad | ch | | |
| | cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | county or district council | |
| i | 1 | _ | | 3 | 15.6 | (7.1, 27.3) | 12 | 63.3 | (44.4, 85.4) | 4 | 18.2 | (9.1, 30.5) | | |
| ı | 2 | 4.4 | (1.4, 9.1) | 7 | 19.0 | (11.6, 28.3) | 18 | 50.4 | (37.8, 64.8) | 7 | 19.1 | (11.8, 28.2) | Antrim | |
| | 3 | 12.1 | (5.5, 21.1) | 3 | 12.4 | (5.6, 21.7) | 14 | 55.1 | (39.4, 73.4) | 6 | 24.8 | (14.7, 37.7) | Ards | |
| | 1 | | (0.0, 21.1) | 4 | 12.3 | (6.1, 20.6) | 16 | 52.4 | (38.5, 68.3) | 6 | 19.4 | (11.2, 29.7) | Armagh Ballymena | |
| | 0 | _ | _ | 1 | _ | — | 7 | 47.7 | (28.9, 71.0) | 1 | _ | — (11.2, 20.7) | Ballymena | |
| 1 | 2 | 10.4 | (3.8, 20.3) | | 18.2 | (8.6, 31.4) | 15 | 79.4 | (57.7, 104.4) | 3 | 17.1 | (7.8, 30.2) | | |
| | 12 | 9.3 | (6.5, 12.6) | 15 | 10.9 | (7.8, 14.4) | 71 | 50.3 | (43.7, 57.4) | 32 | 23.8 | (19.2, 28.8) | Banbridge | |
| | 0 | _ | (0.0, 12.0) | 1 | - | (1.0, 14.4) | 25 | 130 | (102.0, 161.4) | 3 | 16.7 | (8.0, 28.7) | Belfast | |
| | 1 | | _ | 4 | 22.2 | (11.0, 37.1) | 8 | 50.6 | (32.2, 73.0) | 4 | 22.9 | (11.3, 38.5) | Carlow | |
| ı | 4 | 10.1 | (5.1, 16.6) | 5 | 13.3 | (7.2, 21.4) | 20 | 52.2 | (39.7, 66.5) | 8 | 23.0 | (14.7, 33.1) | Carrickfergus Castlereagh | |
| 1 | 4 | 16.6 | (8.8, 27) | 3 | 9.2 | (3.9, 16.7) | 27 | 88.4 | (69.9, 109) | 5 | 14.4 | (7.7, 23.0) | | |
| | 2 | 4.3 | (1.6, 8.4) | 3 | 6.8 | (3.1, 11.9) | 27 | 57.3 | (45.4, 70.6) | 4 | 9.0 | (4.6, 14.8) | Cavan | |
| | 2 | 7.7 | (2.8, 15.1) | 3 | 11.1 | (5.0, 19.5) | 17 | 60.9 | (45.2, 79.0) | 4 | 16.4 | (8.7, 26.6) | Clare | |
| | 1 | | (2.0, 15.1) | 0 | | (0.0, 10.0) | 9 | 56.8 | (36.8, 80.9) | 2 | 11.8 | (3.8, 24.4) | Coleraine | |
| | 21 | 10.8 | (8.3, 13.7) | 22 | 11.3 | (8.7, 14.3) | 179 | 95.7 | (87.7, 104.0) | 27 | 14.5 | (11.5, 17.9) | Cookstown Cork | |
| 1 | 2 | 7 2 | (3 1 13 3) | I 5 | 1/ 1 | (7.0. 22.2) | 10 | 50.6 | (39, 65) | I . | 22.1 | (15.0.33.1) | | |
| ı | 3 2 | 7.3 5.5 | (3.1, 13.3) | 5 3 | 14.1 9.1 | (7.9, 22.2) | 18 32 | 50.6 86.6 | (38, 65) (69.9, 105.1) | 8 7 | 23.1 18.3 | (15.0, 33.1) | Craigavon | |
| | 5 | | (2.2, 10.3) | | | (4.0, 16.3) | | | | | | (11.3, 26.9) | Derry | |
| | 2 | 7.3 7.9 | (4.0, 11.5) | 6 6 | 9.2 19.7 | (5.5, 13.9) | 79 27 | 110 93.3 | (96.3, 125) | 11 4 | 16.2 12.7 | (10.9, 22.4) | Donegal | |
| | 45 | 10.5 | (3.1, 14.8) (8.8, 12.4) | 47 | 12.2 | (11.4, 30.3) (10.2, 14.3) | 375 | 99.3 | (73.9, 114.9) (93.3, 105) | 95 | 24.4 | (6.3, 21.3) (21.7, 27.4) | Down Dublin | |
| | _ | | , | I . | | , , , | • | | , , , | | | | | |
| | 2 | 10.5 | (4.2, 19.6) | 0 | _ | (0.5.40.0) | 10 | 44.5 | (29.9, 62.0) | 3 | 14.0 | (6.3, 24.5) | Dungannon | |
| | 2 | 8.1 | (3.2, 15.2) | 2 | 8.7 | (3.5, 16.2) | 21 | 63.5 | (48.5, 80.6) | 8 | 24.7 | (15.5, 35.9) | Fermanagh | |
| | 9 | 9.9 | (6.5, 14.1) | 7 | 7.4 | (4.6, 11.0) | 81 | 83.1 | (72.8, 94.1) | 15 | 16.6 | (12.1, 21.9) | Galway | |
| ı | 6 | 9.1 | (5.4, 13.7) | 7 | 10.8 | (6.7, 15.9) | 69 | 94.2 | (81.5, 107.8) | 12 | 17.4 | (12.1, 23.6) | Kerry | |
| ı | 6 | 10.8 | (6.2, 16.8) | 6 | 15.1 | (8.7, 23.3) | 34 | 85.1 | (69.1, 102.6) | 8 | 19.4 | (12.2, 28.2) | Kildare | |
| I | 3 | 7.4 | (3.2, 13.6) | 5 | 13.4 | (7.4, 21.1) | 38 | 99.8 | (82.0, 119.4) | 5 | 14.7 | (8.3, 22.9) | Kilkenny | |
| | 2 | 6.6 | (2.1, 13.6) | 2 | 7.4 | (2.6, 14.6) | 23 | 83.1 | (64.2, 104.5) | 1 | _ | _ | Laois | |
| | 4 | 26.2 | (12.8, 44.2) | 1 | _ | _ | 7 | 48 | (29.5, 70.9) | 2 | 13.0 | (5.2, 24.4) | Larne | |
| | 1 | _ | _ | 3 | 14.6 | (6.1, 26.6) | 12 | 63.9 | (44.5, 86.8) | 3 | 18.7 | (8.3, 33.1) | Leitrim | |
| | 0 | _ | _ | 1 | _ | _ | 8 | 68.2 | (44.0, 97.7) | 3 | 20.3 | (8.7, 36.6) | Limavady | |
| I | 6 | 8.4 | (5.0, 12.7) | 6 | 8.4 | (4.9, 12.7) | 46 | 64.4 | (54.0, 75.7) | 10 | 14.7 | (10.0, 20.4) | Limerick | |
| | 6 | 12.2 | (7.2, 18.6) | 5 | 11.8 | (6.7, 18.2) | 27 | 60.8 | (48.3, 74.7) | 7 | 16.6 | (10.4, 24.2) | Lisburn | |
| | 2 | 11.8 | (3.7, 24.5) | 2 | 10.6 | (3.8, 20.9) | 17 | 96.5 | (71.1, 125.7) | 4 | 24.0 | (12.1, 40.0) | Longford | |
| | 3 | 6.7 | (2.9, 12.1) | 6 | 14.1 | (8.2, 21.6) | 30 | 81.2 | (65.1, 99.1) | 10 | 26.5 | (17.8, 37.0) | Louth | |
| ı | 1 | _ | _ | 2 | 12.6 | (4.6, 24.6) | 9 | 49.7 | (32.2, 70.9) | 2 | 11.6 | (4.2, 22.7) | Magherafelt | |
| I | 5 | 8.0 | (4.3, 12.9) | 7 | 10.3 | (6.2, 15.5) | 45 | 63.3 | (52.7, 74.8) | 9 | 13.8 | (9.0, 19.7) | Mayo | |
| | 5 | 11.0 | (6.2, 17.1) | 6 | 12.5 | (7.4, 18.9) | 36 | 84.3 | (69.0, 101.1) | 11 | 24.3 | (16.6, 33.3) | Meath | |
| | 2 | 7.5 | (2.7, 14.7) | 2 | 8.5 | (3.1, 16.6) | 21 | 76.5 | (58.4, 97.0) | 5 | 16.2 | (8.8, 25.8) | Monaghan | |
| | 0 | _ | - | 0 | _ | _ | 6 | 63.6 | (37.3, 96.7) | 1 | _ | | Moyle | |
| I | 2 | 6.5 | (2.5, 12.4) | 2 | 5.3 | (1.9, 10.4) | 19 | 54.1 | (40.7, 69.3) | 14 | 37.4 | (26.7, 49.8) | Newry & Mourne | |
| | 4 | 10.9 | (5.5, 17.9) | 5 | 13.1 | (7.5, 20.4) | 22 | 55.8 | (42.8, 70.6) | 8 | 20.5 | (12.9, 29.8) | Newtownabbey | |
| Į | 4 | 11.0 | (5.8, 17.8) | 4 | 9.2 | (4.5, 15.5) | 26 | 59.2 | (46.6, 73.2) | 7 | 16.4 | (9.9, 24.5) | North Down | |
| Į | 2 | 9.5 | (3.7, 17.8) | 3 | 12.1 | (5.8, 20.8) | 21 | 71.7 | (55.0, 90.7) | 4 | 13.7 | (7.0, 22.6) | Offaly | |
| ı | 1 | _ | | 3 | 13.0 | (5.6, 23.6) | 22 | 101 | (77.9, 127.6) | 4 | 18.0 | (8.9, 30.3) | Omagh | |
| | 2 | 5.5 | (1.8, 11.3) | 3 | 11.2 | (5.2, 19.3) | 26 | 72.4 | (56.8, 89.8) | 4 | 11.2 | (5.6, 18.7) | Roscommon | |
| Į | 4 | 14.7 | (7.6, 24.2) | 0 | _ | _ | 30 | 95.5 | (76.6, 116.4) | 4 | 12.1 | (6.1, 20.0) | Sligo | |
| ı | 1 | _ | _ | 1 | _ | _ | 13 | 78.4 | (55.6, 105.1) | 4 | 22.4 | (11.1, 37.6) | Strabane | |
| | 4 | 5.4 | (2.8, 8.9) | 7 | 8.9 | (5.4, 13.4) | 58 | 73.7 | (63.0, 85.3) | 11 | 14.2 | (9.7, 19.6) | Tipperary | |
| | 5 | 11.7 | (6.6, 18.1) | 6 | 13.3 | (7.7, 20.4) | 43 | 99.3 | (82.8, 117.3) | 7 | 16.3 | (10.2, 23.8) | Waterford | |
| 1 | 1 | _ | _ | 4 | 11.6 | (5.7, 19.4) | 29 | 101 | (81, 123.9) | 7 | 23.5 | (14.5, 34.7) | Westmeath | |
| J | 4 | 8.0 | (4.1, 13.1) | 6 | 12.4 | (7.4, 18.8) | 46 | 95.7 | (80.4, 112.3) | 6 | 12.3 | (7.3, 18.7) | Wexford | |
| | 6 | 11.6 | (6.7, 17.8) | 7 | 16.9 | (10.4, 24.9) | 41 | 101 | (83.7, 119.7) | 5 | 11.7 | (6.5, 18.3) | Wicklow | |
| J | 155 | 9.3 | (8.5, 10.2) | 177 | 10.9 | (9.9, 11.8) | 1459 | 89.4 | (86.8, 92.1) | 287 | 17.6 | (16.4, 18.8) | Rep of Ireland | |
| | 65 | 8.4 | (7.3, 9.6) | 88 | 11.6 | (10.2, 13.0) | 475 | 59.7 | (56.6, 62.9) | 158 | 20.2 | (18.4, 22.1) | Northern Ireland | |
| | 221 | 9.0 | (8.3, 9.7) | 265 | 11.1 | (10.3, 11.9) | 1934 | 79.7 | (77.7, 81.8) | 444 | 18.5 | (17.5, 19.5) | All Ireland | |

Appendix C4 Total mortality and age-adjusted rates for the

| Appendix | C4 | | ı otal i | mor | talit | y and | age | -aaj | ustea | d rates for the | | | |
|------------------|-----------|-----------|----------------------------------|----------|--------|--------------|----------|---------|------------------------------|-----------------|--------|-------------|--|
| | àll | sites com | bined | | colore | ctal | | g & bro | onchus | | lympho | ma | |
| county or | cases per | rate | 95% ci | cases | rate | 95% ci | cases | у | 95% ci | cases | rate | 95% ci | |
| district council | year | | <u> </u> | year | | | year | | | year | | | |
| Antrim | 84 | 185.6 | (163.2, 209.5) | 11 | 23.8 | (16.4, 32.6) | 19 | 43.5 | (32.9, 55.4) | 4 | 8.4 | (4.2, 14.1) | |
| Ards | 153 | 173.6 | (157.6, 190.3) | 18 | 21.4 | (15.9, 27.6) | 29 | 32.7 | (26.0, 40.2) | 4 | 5.0 | (2.5, 8.2) | |
| Armagh | 102 | 173.7 | (154.3, 194.2) | 13 | 22.0 | (15.6, 29.5) | 23 | 39.4 | (30.4, 49.5) | 6 | 9.9 | (5.7, 15.3) | |
| Ballymena | 121 | 168.1 | (150.9, 186.3) | 18 | 22.9 | (17.0, 29.6) | 21 | 29.8 | (22.8, 37.7) | 6 | 8.3 | (4.9, 12.7) | |
| Ballymoney | 49 | 163.0 | (137.1, 191.1) | 7 | 24.8 | (15.3, 36.6) | 7 | 23.8 | (14.7, 35.1) | 2 | 7.3 | (2.6, 14.5) | |
| Banbridge | 75 | 169.5 | (147.6, 192.9) | 10 | 23.8 | (16.1, 33.1) | 14 | 31.4 | (22.4, 41.9) | 3 | 6.1 | (2.7, 10.7) | |
| Belfast | 779 | 220.8 | (211.5, 230.3) | 101 | 27.4 | (24.2, 30.7) | 211 | 60.3 | (55.5, 65.3) | 31 | 8.9 | (7.1, 11.0) | |
| Carlow | 89 | 225.1 | (198.6, 253.3) | 12 | 31.5 | (22.0, 42.6) | 17 | 43.1 | (32.0, 55.8) | 3 | 7.7 | (3.3, 13.8) | |
| Carrickfergus | 80 | 188.9 | (165.2, 214.1) | 8 | 16.8 | (10.5, 24.4) | 18 | 42.1 | (31.3, 54.5) | 4 | 10.6 | (5.5, 17.2) | |
| Castlereagh | 150 | 163.5 | (148.1, 179.6) | 22 | 22.6 | (17.3, 28.7) | 36 | 37.4 | (30.4, 45.0) | 7 | 7.7 | (4.6, 11.6) | |
| Cavan | 133 | 202.1 | (181.9, 223.3) | 19 | 26.9 | (20.0, 34.8) | 26 | 40.4 | (31.5, 50.3) | 4 | 6.0 | (3.0, 10.2) | |
| Clare | 180 | 175.6 | (160.6, 191.2) | 26 | 25.1 | (19.7, 31.2) | 31 | 30.0 | (24.0, 36.6) | 6 | 6.4 | (3.8, 9.7) | |
| Coleraine | 127 | 191.2 | (171.9, 211.5) | 18 | 25.9 | (19.3, 33.5) | 25 | 39.7 | (31.1, 49.4) | 6 | 8.3 | (4.7, 12.8) | |
| Cookstown | 53 | 155.1 | (131.2, 181.1) | 6 | 16.3 | (9.5, 24.9) | 11 | 31.9 | (21.9, 43.9) | 2 | 7.1 | (2.8, 13.4) | |
| Cork | 848 | 194.9 | (187.3, 202.7) | 140 | 31.5 | (28.5, 34.6) | 148 | 34.2 | (31.1, 37.5) | 34 | 8.0 | (6.5, 9.7) | |
| Craigavon | 155 | 182.0 | (165.5, 199.2) | 25 | 28.4 | (22.2, 35.3) | 33 | 38.9 | (31.5, 47.1) | 5 | 5.7 | (3.1, 9.2) | |
| Derry | 190 | 214.7 | (197.3, 232.8) | 23 | 26.1 | (20.2, 32.6) | 49 | 56.3 | (47.5, 65.8) | 6 | 7.0 | (4.1, 10.6) | |
| Donegal | 281 | 186.4 | (173.5, 199.7) | 39 | 24.4 | (20.0, 29.3) | 54 | 38.6 | (32.7, 45.0) | 10 | 7.2 | (4.7, 10.1) | |
| Down | 133 | 191.1 | (172.3, 210.9) | 17 | 21.7 | (16.0, 28.2) | 27 | 40.4 | (31.9, 49.8) | 4 | 5.8 | (2.9, 9.9) | |
| Dublin | 2128 | 219.9 | (214.5, 225.3) | 269 | 27.5 | (25.7, 29.5) | 520 | 54.4 | (51.7, 57.1) | 79 | 8.1 | (7.1, 9.1) | |
| Dungannon | 87 | 176.0 | (154.8, 198.6) | 12 | 24.6 | (17.1, 33.4) | 18 | 34.8 | (26.0, 45.0) | 3 | 6.2 | (2.8, 11.0) | |
| Fermanagh | 123 | 178.5 | (159.9, 198.0) | 19 | 24.4 | (18.2, 31.5) | 17 | 24.4 | (17.9, 31.9) | 7 | 11.3 | (6.8, 17.0) | |
| Galway | 386 | 188.7 | (177.6, 200.1) | 58 | 27.8 | (23.7, 32.3) | 67 | 33.5 | (28.9, 38.4) | 14 | 7.6 | (5.4, 10.1) | |
| Kerry | 304 | 201.0 | (187.7, 214.7) | 45 | 29.2 | (24.3, 34.5) | 56 | 36.7 | (31.1, 42.7) | 13 | 8.9 | (6.2, 12.1) | |
| Kildare | 211 | 224.1 | (206.6, 242.3) | 34 | 36.3 | (29.5, 43.8) | 39 | 43.5 | (35.9, 51.8) | 10 | 10.4 | (6.9, 14.7) | |
| Kilkenny | 146 | 179.6 | (162.8, 197.2) | 21 | 25.1 | (19.1, 31.9) | 25 | 31.1 | (24.4, 38.7) | 6 | 7.0 | (4.0, 10.8) | |
| Laois | 105 | 186.0 | (165.5, 207.7) | 14 | 24.8 | (17.6, 33.2) | 17 | 30.0 | (22.1, 39.2) | 5 | 9.2 | (4.9, 14.7) | |
| Larne | 75 | 193.6 | (168.5, 220.4) | 9 | 21.5 | (13.9, 30.8) | 16 | 42.3 | (30.9, 55.3) | 3 | 8.1 | (3.6, 14.4) | |
| Leitrim | 73 | 197.6 | (170.6, 226.6) | 13 | 34.1 | (23.5, 46.5) | 10 | 30.2 | (20.0, 42.5) | 2 | 4.0 | (1.2, 8.4) | |
| Limavady | 51 | 180.1 | (152.3, 210.2) | 8 | 26.6 | (16.7, 38.7) | 8 | 30.3 | (19.3, 43.7) | 1 | 4.0 | (1.1, 8.8) | |
| Limerick | 339 | 208.1 | (195.3, 221.3) | 44 | 26.6 | (22.2, 31.4) | 74 | 46.4 | (40.4, 52.9) | 13 | 8.1 | (5.7, 10.8) | |
| Lisburn | 191 | 172.0 | (158.0, 186.6) | 24 | 21.1 | (16.5, 26.4) | 42 | 38.7 | (32.1, 45.8) | 11 | 9.8 | (6.6, 13.5) | |
| Longford | 75 | 206.4 | (179.4, 235.3) | 10 | 29.5 | (19.7, 41.1) | 14 | 38.8 | (27.4, 52.1) | 2 | 5.4 | (1.9, 10.7) | |
| Louth | 192 | 212.3 | (195.0, 230.3) | 25 | 27.5 | (21.5, 34.1) | 42 | 46.2 | (38.3, 54.7) | 5 | 5.2 | (2.9, 8.2) | |
| Magherafelt | 71 | 186.9 | (162.1, 213.3) | 8 | 20.4 | (13.1, 29.4) | 12 | 32.7 | (22.8, 44.2) | 3 | 6.9 | (2.9, 12.6) | |
| Mayo | 283 | 195.1 | (181.4, 209.4) | 43 | 28.3 | (23.3, 33.6) | 41 | 29.0 | (23.9, 34.7) | 9 | 7.3 | (4.8, 10.5) | |
| Meath | 188 | 191.1 | (175.4, 207.5) | 31 | 31.7 | (25.5, 38.6) | 32 | 32.7 | (26.4, 39.7) | 8 | 8.8 | (5.6, 12.7) | |
| Monaghan | 102 | 183.1 | (162.5, 204.8) | 16 | 28.6 | (20.9, 37.5) | 18 | 32.2 | (23.9, 41.7) | 3 | 5.4 | (2.4, 9.6) | |
| Moyle | 42 | 210.2 | (173.8, 250.0) (187.4, 223.0) | | 51.1 | (34.2, 71.3) | | 50.0 | (33.0, 70.4) (33.3, 49.0) | 1 4 | 4.9 | (0.6, 13.6) | |
| Newry & Mourne | 175 | 204.8 | (107.4, 223.0) | 29 | 34.0 | (27.1, 41.7) | 36 | 40.8 | (33.3, 49.0) | 4 | 4.6 | (2.4, 7.6) | |
| Newtownabbey | 181 | 192.8 | (176.7, 209.7) | 27 | 27.8 | (21.9, 34.3) | 35 | 36.8 | (30.0, 44.3) | 7 | 7.1 | (4.3, 10.6) | |
| North Down | 168 | 159.9 | (145.4, 175.0) | 28 | 23.3 | (18.3, 28.9) | 33 | 31.8 | (25.6, 38.7) | 7 | 6.1 | (3.6, 9.3) | |
| Offaly | 126 | 208.8 | (187.9, 230.8) | 18 | 29.3 | (21.8, 37.8) | 22 | 35.6 | , , | 5 | 8.1 | (4.5, 12.8) | |
| Omagh | 74 | 152.1 | (132.1, 173.4) | 12 | 24.3 | (16.8, 33.2) | 13 | 27.8 | (19.5, 37.6) | 3 | 5.1 | (2.1, 9.5) | |
| Roscommon | 131 | 176.8 | (158.8, 195.9) | 24 | 32.4 | (25.0, 40.7) | 19 | 26.5 | (19.7, 34.2) | 1 | 1.8 | (0.4, 4.2) | |
| Sligo | 146 | 216.0 | (195.4, 237.6) | 20 | 29.3 | (22.1, 37.5) | 31 | 46.4 | (37.2, 56.8) | 6 | 8.5 | (4.8, 13.3) | |
| Strabane | 64 | 164.9 | (142.0, 189.4) | 10 | 24.7 | (16.5, 34.7) | 15 | 40.0 | ' | 2 | 5.2 | (1.8, 10.2) | |
| Tipperary | 296 | 189.3 | (176.8, 202.3) | | 25.8 | (21.3, 30.7) | 55 | 35.8 | ' | 12 | 7.9 | (5.5, 10.8) | |
| Waterford | 206 | 208.1 | (191.8, 225.1) | 26 21 | 26.9 | (21.2, 33.2) | 35 28 | 36.0 | (29.4, 43.4) | 8 | 8.6 | (5.5, 12.3) | |
| Westmeath | 143 | 215.3 | (195.0, 236.7) | 21 | 32.5 | (24.9, 41.2) | 28 | 40.6 | (32.2, 50.0) | 5 | 8.1 | (4.5, 12.9) | |
| Wexford | 215 | 196.3 | (181.2, 212.0) | | 27.7 | (22.3, 33.8) | 44 | 40.9 | , , , | 7 | 6.2 | (3.8, 9.3) | |
| Wicklow | 207 | 212.8 | (196.2, 230.2) | 25 | 26.5 | (20.7, 32.9) | 44 | 46.5 | (38.8, 55.0) | 7 | 7.4 | (4.6, 10.9) | |
| Rep of Ireland | 7532 | 203.1 | (200.4, 205.8) | 1063 | 28.3 | (27.3, 29.3) | 1508 | 41.2 | (40.0, 42.4) | 274 | 7.6 | (7.1, 8.2) | |
| Northern Ireland | 3553 | 187.3 | (183.6, 191.0) | 493 | 25.0 | (23.7, 26.3) | 778 | 41.3 | | 138 | 7.5 | (6.8, 8.3) | |
| All Ireland | 11085 | 197.9 | (195.7, 200.0) | 1556 | 27.2 | (26.4, 28.0) | 2286 | 41.3 | (40.3, 42.3) | 413 | 7.6 | (7.2, 8) | |
| | | _ | Rates ac | li | nd to | Furan | | tono | lard no | | ion | | |

major cancer sites by county and district council, 1998-2000 annual average

| mel | anoma | a of skin | , | oesoph | agus | I | stom | ach | |
|-------------------|------------|--------------------------|----------------------|-------------|----------------------------|----------------------|--------------|-----------------------------|-------------------------------|
| cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | county or district council |
| 0 | _ | _ | 3 | 7.2 | (3.4, 12.4) | 2 | 5.3 | (2.1, 10.0) | Antrim |
| 2 | 2.2 | (0.8, 4.3) | 9 | 10.8 | (7.0, 15.4) | 6 | 6.9 | (4.0, 10.6) | Ards |
| 1 | _ | _ | 6 | 11.0 | (6.6, 16.7) | 4 | 7.4 | (3.9, 12.0) | Armagh |
| 0 | | _ | 6 1 | 8.2 | (4.7, 12.6) | 6 3 | 7.7 8.6 | (4.5, 11.8) (3.6, 15.7) | Ballymena Ballymoney |
| | | | | | (0.0.40.0) | | | | |
| 1 6 | 1.7 | (1.0, 2.7) | 5 31 | 11.3 | (6.2, 18.0) (6.7, 10.2) | 6 45 | 13.5 12.4 | (7.9, 20.5) (10.3, 14.8) | Banbridge Belfast |
| 1 | _ | _ | 5 | 11.3 | (6.1, 18.0) | 5 | 13.7 | (7.7, 21.3) | Carlow |
| 0 | _ | _ | 5 | 11.8 | (6.5, 18.7) | 4 | 10.3 | (5.4, 16.8) | Carrickfergus |
| 1 | _ | _ | 6 | 6.3 | (3.7, 9.6) | 9 | 10.3 | (6.7, 14.7) | Castlereagh |
| 1 | _ | _ | 5 | 6.3 | (3.4, 10.2) | 7 | 10.3 | (6.3, 15.4) | Cavan |
| 2 | 1.6 | (0.5, 3.3) | 5 | 5.2 | (2.9, 8.2) | 7 | 6.3 | (3.7, 9.5) | Clare |
| 1 | _ | _ | 5 | 8.3 | (4.6, 13.0) | 6 | 9.7 | (5.7, 14.7) | Coleraine |
| 0 | _ | _ | 2 | 6.3 | (2.3, 12.5) | 3 | 9.9 | (4.6, 17.2) | Cookstown |
| 8 | 1.7 | (1.1, 2.5) | 30 | 6.6 | (5.3, 8.1) | 30 | 7.0 | (5.6, 8.6) | Cork |
| 2 | 3.0 | (1.2, 5.6) | 10 | 13.1 | (8.9, 18.2) | 9 | 10.3 | (6.7, 14.7) | Craigavon |
| 3 | 3.1 | (1.3, 5.6) | 5 | 5.7 | (3.1, 8.9) | 12 | 12.8 | (8.9, 17.4) | Derry |
| 1 | _ | _ | 11 | 7.6 | (5.1, 10.6) | 14 | 8.6 | (6.1, 11.6) | Donegal |
| 0 26 | 2.7 | (2.1, 3.3) | 5 91 | 7.3 9.4 | (4.0, 11.4) (8.3, 10.5) | 6 108 | 9.2 | (5.5, 13.9) (10.0, 12.4) | Down |
| 20 | 2.1 | (2.1, 5.5) | . " | 3.4 | (0.5, 10.5) | . 100 | | (10.0, 12.4) | Dublin |
| 1 | _ | _ | 3 | 6.6 | (3.0, 11.7) | 3 | 5.0 | (2.3, 8.9) | Dungannon |
| 1 | - | (4.4.2.5) | 4 | 5.7 | (2.9, 9.5) | 8 | 11.3 | (7.0, 16.6) | Fermanagh |
| 4 2 | 2.1 1.5 | (1.1, 3.5) (0.6, 2.9) | 15 14 | 7.5 9.2 | (5.4, 9.9) (6.5, 12.3) | 17 14 | 9.4 | (5.9, 10.5) (6.7, 12.6) | Galway |
| 3 | 2.3 | (1.0, 4.1) | 9 | 9.4 | (6.1, 13.4) | 8 | 8.5 | (5.4, 12.3) | Kerry Kildare |
| | 2.0 | (,) | | | , , , | | | , , | Kildare |
| 1 | _ | _ | 8 | 9.4 | (5.9, 13.6) | 8 | 9.9 | (6.4, 14.3) | Kilkenny |
| 1 2 | 4.1 | (1.3, 8.5) | 5 3 | 7.9 7.8 | (4.2, 12.7) (3.5, 13.8) | 3 | 4.6 6.8 | (2.0, 8.5) (3.1, 12.1) | Laois |
| 1 | 4.1 | (1.3, 6.3) | 2 | 7.6 | (2.9, 14.7) | 3 | 7.3 | (3.2, 13.0) | Larne Leitrim |
| 0 | _ | _ | 1 | - | _ | 3 | 11.5 | (5.4, 19.7) | Limavady |
| 4 | 2.3 | (1.1, 3.9) | 11 | 6.5 | (4.4, 8.9) | 16 | 9.3 | (6.8, 12.2) | Limerick |
| 2 | 2.0 | (0.8, 3.7) | 8 | 7.7 | (4.9, 11.1) | 7 | 6.6 | (4.1, 9.8) | Lisburn |
| 0 | _ | | 2 | 6.5 | (2.4, 12.6) | 5 | 13.3 | (7.4, 21) | Longford |
| 3 | 3.2 | (1.3, 5.7) | 8 | 8.9 | (5.6, 12.9) | 12 | 14.0 | (9.8, 18.9) | Louth |
| 0 | - | _ | 3 | 7.1 | (3.0, 12.9) | 4 | 8.8 | (4.3, 14.9) | Magherafelt |
| 2 | 2.1 | (0.8, 4.0) | 9 | 6.3 | (4.1, 9.0) | 12 | 7.9 | (5.4, 10.9) | Mayo |
| 2 | 1.8 | (0.7, 3.5) | 9 | 9.1 | (5.9, 12.9) | 9 | 9.7 | (6.4, 13.7) | Meath |
| 0 | _ | _ | 5 | 8.9 | (4.9, 14.2) | 7 | 13.6 | (8.4, 20.1) | Monaghan |
| 0 | _ | | 2 | 8.7 | (2.7, 18.3) | 1 | - | | Moyle |
| 3 | 3.1 | (1.3, 5.6) | 7 | 8.3 | (5.1, 12.4) | 16 | 18.2 | (13.3, 23.9) | Newry & Mourne |
| 1 | - | _ | 11 | 11.1 | (7.5, 15.3) | 9 | 9.8 | (6.4, 13.9) | Newtownabbey |
| 1 | _ | _ | 7 | 7.1 | (4.2, 10.8) | 9 | 8.1 | (5.2, 11.7) | North Down |
| 0 | | _ | 7 5 | 10.5 9.9 | (6.3, 15.8) (5.4, 15.8) | 7 4 | 7.1 | (6.7, 16.5) (3.5, 12.0) | Offaly |
| 1 | _ | _ | 6 | 8.0 | (4.6, 12.3) | 7 | 8.7 | (5.3, 12.0) | Omagh Roscommon |
| 1 | | | 3 | 4.2 | (1.8, 7.6) | 6 | 8.4 | (4.9, 12.8) | |
| 0 | | _ | 1 | 4.Z — | (1.0, 7.0) — | 5 | 12.7 | (6.8, 20.2) | Sligo Strabane |
| 1 | _ | _ | 11 | 7.2 | (4.9, 9.9) | 12 | 7.0 | (4.8, 9.6) | Tipperary |
| 2 | 2.8 | (1.1, 5.2) | 10 | 10.1 | (6.8, 14.0) | 10 | 9.3 | (6.3, 12.9) | Waterford |
| 1 | - | _ | 5 | 6.8 | (3.7, 11.0) | 8 | 12.0 | (7.6, 17.4) | Westmeath |
| 2 | 1.8 | (0.6, 3.5) | 9 | 8.6 | (5.7, 12.2) | 7 | 6.7 | (4.2, 9.8) | Wexford |
| 3 | 2.4 | (1.0, 4.3) | 13 | 12.6 | (8.9, 17.0) | 10 | 10.1 | (6.7, 14.1) | Wicklow |
| 73 | 2.0 | (1.8, 2.3) | 305 | 8.2 | (7.7, 8.8) | 353 | 9.4 | (8.8, 10.0) | Rep of Ireland |
| 31 | 1.7 | (1.3, 2.0) | 154 | 8.2 | (7.5, 9.0) | 193 | 10.1 | (9.2, 10.9) | Northern Ireland |
| 104 | 1.9 | (1.7, 2.1) | 460 | 8.2 | (7.8, 8.7) | 546 | 9.6 | | All Ireland |
| | Rat | tes adju | sted | to E | uropeai | n stai | ndar | d popu | lation |

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Appendix C5

Female mortality and age-adjusted rates for the

| | àll | sites co | mhined | ı | brea | et . | I | colored | rtal | l lur | ıg & bro | nchue | | lympho | ıma |
|------------------------|----------|----------|----------------------------------|----------|--------------|------------------------------|----------|---------|------------------------------|----------|----------|------------------------------|----------|--------|-------------|
| county or | cases | | | cases | | | cases | | | cases | | | cases | | |
| district council | per year | rate | 95% ci | per year | rate | 95% ci | per year | rate | 95% ci | per year | rate | 95% ci | per year | rate | 95% ci |
| Antrim | 48 | 189.7 | (159.2, 222.7) | 8 | 34.5 | (22.1, 49.6) | 7 | 26.2 | (16.1, 38.7) | 9 | 36.4 | (23.7, 51.8) | 2 | 7.4 | (2.6, 14.7) |
| Ards | 72 | 143.9 | (124.4, 164.8) | 14 | 31.7 | (22.7, 42.3) | 8 | 15.9 | (9.8, 23.4) | 11 | 23.1 | (15.6, 32.0) | 2 | 4.0 | (1.4, 8.1) |
| Armagh | 49 | 147.9 | (123.9, 173.9) | 5 | 14.4 | (7.6, 23.3) | 6 | 15.3 | (8.9, 23.4) | 9 | 27.4 | (17.7, 39.2) | 3 | 8.7 | (3.6, 15.9) |
| Ballymena | 61 | 149.6 | (127.7, 173.3) | 9 | 24.9 | (16.0, 35.8) | 10 | 21.8 | (14.4, 30.7) | 6 | 16.2 | (9.5, 24.6) | 4 | 10.7 | (5.5, 17.6) |
| Ballymoney | 24 | 143.6 | (110.8, 180.5) | 4 | 28.2 | (14.3, 46.8) | 4 | 21.9 | (10.4, 37.7) | 2 | 11.1 | (3.4, 23.3) | 1 | _ | _ |
| Banbridge | 38 | 152.4 | (124.7, 182.9) | 7 | 34.4 | (21.1, 51.0) | 7 | 25.2 | (15.1, 38.0) | 4 | 18.7 | (9.7, 30.5) | 1 | _ | _ |
| Belfast | 387 | 184.2 | (172.8, 196.1) | 51 | 27.1 | (22.6, 32.0) | 48 | 20.8 | (17.2, 24.7) | 93 | 46.2 | (40.6, 52.3) | 16 | 7.8 | (5.6, 10.4) |
| Carlow | 47 | 231.5 | (193.9, 272.4) | 9 | 45.7 | (29.5, 65.3) | 6 | 29.6 | (17.5, 45.0) | 7 | 33.2 | (20.2, 49.5) | 2 | 11.8 | (4.3, 23.1) |
| Carrickfergus | 38 | 152.1 | (124.2, 182.7) | 5 | 23.4 | (12.9, 36.9) | 4 | 12.7 | (6.5, 21.1) | 7 | 27.8 | (16.5, 42.0) | 2 | 6.8 | (2.1, 14.3) |
| Castlereagh | 73 | 141.1 | (121.8, 161.9) | 12 | 27.1 | (18.3, 37.5) | 10 | 16.8 | (10.9, 23.8) | 13 | 20.5 | (14.2, 28.0) | 5 | 10.3 | (5.5, 16.5) |
| Cavan | 52 | 150.0 | (125.8, 176.3) | 10 | 35.7 | (23.6, 50.2) | 8 | 19.9 | (12.3, 29.2) | 9 | 25.0 | (15.8, 36.2) | 1 | _ | _ |
| Clare | 80 | 151.2 | (131.8, 172.0) | 16 | 31.7 | (23.0, 41.7) | 8 | 15.4 | (9.7, 22.3) | 10 | 18.7 | (12.3, 26.4) | 3 | 6.2 | (2.8, 10.8) |
| Coleraine | 65 | 169.9 | (145.5, 196.3) | 14 | 44.7 | (31.9, 59.7) | 9 | 20.1 | (12.8, 29.1) | 11 | 31.9 | (21.7, 44.2) | 3 | 9.6 | (4.3, 16.8) |
| Cookstown | 24 | 129.9 | (100.3, 163.1) | 4 | 24.7 | (12.1, 41.8) | 3 | 13.8 | (6.4, 24.2) | 4 | 19.1 | (9.2, 32.7) | 1 | _ | _ |
| Cork | 403 | 167.4 | (157.7, 177.4) | 77 | 34.9 | (30.4, 39.8) | 68 | 26.1 | (22.5, 29.9) | 53 | 22.1 | (18.6, 25.8) | 15 | 6.5 | (4.7, 8.7) |
| Craigavon | 76 | 158.2 | (137.6, 180.2) | 13 | 27.1 | (19.0, 36.6) | 11 | 21.6 | (14.6, 29.8) | 14 | 29.2 | (20.7, 39.2) | 3 | 6.5 | (2.9, 11.6) |
| Derry | 94 | 185.7 | (164.1, 208.5) | 21 | 40.5 | (30.8, 51.5) | 14 | 27.0 | (19.3, 36.0) | 16 | 33.5 | (24.6, 43.7) | 2 | 3.8 | (1.3, 7.5) |
| Donegal | 133 | 170.6 | (153.1, 188.9) | 22 | 32.4 | (24.7, 41.2) | 20 | 22.6 | (16.9, 29.2) | 22 | 29.5 | (22.4, 37.5) | 5 | 7.4 | (4.1, 11.8) |
| Down | 61 | 158.8 | (135.5, 183.9) | 11 | 30.2 | (20.3, 41.9) | 7 | 15.7 | (9.5, 23.5) | 10 | 26.1 | (17.2, 36.8) | 2 | 6.3 | (2.3, 12.3) |
| Dublin | 1048 | 182.6 | (176.1, 189.2) | 174 | 32.2 | (29.5, 35.1) | 118 | 19.8 | (17.7, 21.9) | 215 | 37.9 | (35.0, 40.9) | 40 | 6.9 | (5.7, 8.2) |
| Dungannon | 42 | 148.1 | (122.0, 176.7) | 7 | 26.8 | (16.0, 40.4) | 7 | 26.0 | (15.9, 38.7) | 6 | 18.2 | (10.3, 28.3) | 2 | 8.3 | (2.9, 16.4) |
| Fermanagh | 54 | 140.4 | (117.9, 164.9) | 6 | 19.6 | (11.3, 30.2) | 9 | 21.3 | (13.6, 30.6) | 6 | 14.0 | (7.7, 22.0) | 3 | 8.2 | (3.3, 15.4) |
| Galway | 165 | 154.2 | (140.2, 169.0) | 37 | 39.4 | (32.1, 47.5) | 22 | 19.6 | (14.9, 25.0) | 17 | 15.1 | (11.0, 19.8) | 5 | 5.1 | (2.8, 8.1) |
| Kerry | 131 | 165.9 | (149.0, 183.7) | 26 | 36.6 | (28.5, 45.6) | 19 | 23.1 | (17.2, 29.9) | 17 | 20.4 | (14.9, 26.8) | 5 | 6.1 | (3.2, 10.0) |
| Kildare | 98 | 191.4 | (169.4, 214.7) | 18 | 36.2 | (27.0, 46.6) | 16 | 30.6 | (22.3, 40.2) | 12 | 25.9 | (18.0, 35.2) | 5 | 10.4 | (5.7, 16.4) |
| Kilkenny | 67 | 159.4 | (137.3, 183.2) | 15 | 40.4 | (29.3, 53.4) | 10 | 22.6 | (15.0, 31.8) | 8 | 19.6 | (12.4, 28.4) | 2 | 3.0 | (1.0, 6.1) |
| Laois | 43 | 148.2 | (123.0, 175.8) | 7 | 23.1 | (14.1, 34.5) | 6 | 20.3 | (11.8, 31.1) | 4 | 15.9 | (8.2, 26.2) | 2 | 6.3 | (1.9, 13.2) |
| Larne | 41 | 185.1 | (152.0, 221.3) | 8 | 42.9 | (26.9, 62.6) | 6 | 23.8 | (13.5, 37.0) | 6 | 28.5 | (16.4, 43.9) | 2 | 10.9 | (4.2, 20.8) |
| Leitrim | 32 | 175.3 | (138.8, 216.0) | 5 | 27.0 | (14.2, 44.0) | 6 | 33.1 | (18.3, 52.1) | 2 | 8.2 | (2.8, 16.3) | 1 | _ | _ |
| Limavady | 24 | 160.9 | (124.7, 201.7) | 6 | 40.5 | (23.5, 62.0) | 3 | 19.8 | (8.8, 35.3) | 2 | 17.7 | (7.0, 33.3) | 0 | _ | _ |
| Limerick | 158 | 173.5 | (157.6, 190.1) | 28 | 34.4 | (27.3, 42.4) | 17 | 18.1 | (13.3, 23.6) | 28 | 31.9 | (25.3, 39.4) | 7 | 7.3 | (4.4, 11.0) |
| Lisburn | 97 | 152.8 | (135.1, 171.5) | 16 | 26.9 | (19.6, 35.2) | 12 | 16.9 | (11.6, 23.2) | 17 | 27.6 | (20.3, 35.9) | 7 | 11.5 | (7.0, 17.0) |
| Longford | 34 | 185.5 | (149.6, 225.1) | 6 | 36.5 | (20.8, 56.6) | 7 | 35.9 | (21.2, 54.6) | 5 | 29.7 | (16.6, 46.7) | 0 | _ | _ |
| Louth | 94 | 182.4 | (160.9, 205.2) | 18 | 39.0 | (29.1, 50.3) | 11 | 19.6 | (13.3, 27.0) | 15 | 29.1 | (21.0, 38.4) | 2 | 4.0 | (1.5, 7.8) |
| Magherafelt | 34 | 164.5 | (132.8, 199.5) | 6 | 32.0 | (18.6, 49.0) | 4 | 15.8 | (7.7, 27.0) | 4 | 21.3 | (11.1, 34.7) | 0 | _ | _ |
| Mayo | 118 | 157.9 | (140.2, 176.5) | 26 | 42.0 | (32.6, 52.6) | 15 | 16.9 | (11.9, 22.7) | 11 | 13.7 | (9.1, 19.3) | 4 | 5.1 | (2.3, 8.9) |
| Meath | 86 | 160.7 | (141, 181.7) | 14 | 27.6 | (19.6, 37.0) | 15 | 27.2 | (19.7, 36.0) | 14 | 27.6 | (19.7, 36.7) | 4 | 9.4 | (4.9, 15.2) |
| Monaghan | 45 | 154.6 | (128.4, 183.3) | 8 | 33.7 | (21.6, 48.5) | 7 | 22.9 | (13.7, 34.3) | 5 | 17.3 | (9.6, 27.2) | 2 | 5.8 | (1.7, 12.4) |
| Moyle | 22 | 198.4 | (150.5, 252.9) | 4 | 34.5 | (16.9, 58.3) | 6 | 52.5 | (30.3, 80.7) | 5 | 50.5 | (27.5, 80.4) | 0 | _ | _ |
| Newry & Mourne | 84 | 1/4.4 | (152.8, 197.5) | 17 | 39.7 | (29.3, 51.7) | 12 | 23.7 | (16.4, 32.4) | 14 | 28.6 | (20.3, 38.2) | 3 | 5.3 | (2.2, 9.7) |
| Newtownabbey | 88 | 160.0 | , , | 16 | 33.8 | (24.7, 44.4) | 14 | 25.0 | (17.8, 33.4) | 15 | 26.1 | (18.8, 34.7) | 3 | 5.1 | (2.1, 9.5) |
| North Down | 86 | 135.6 | ' ' | 13 | 25.2 | (17.4, 34.4) | 15 | 18.8 | (13.2, 25.3) | 16 | 26.0 | (18.6, 34.6) | 4 | 5.2 | (2.3, 9.3) |
| Offaly | 61 | 195.7 | (167.5, 226.0) | 11 | 38.3 | (26.0, 52.8) | 8 | 23.9 | (14.9, 34.9) | 9 | 29.5 | (19.3, 41.9) | 2 | 6.6 | (2.6, 12.5) |
| Omagh | 32 | 114.7 | (91.8, 140.0) | 6 | 22.9 | (13.1, 35.3) | 5 | 15.9 | (8.6, 25.5) | 2 | 9.8 | (3.7, 18.6) | 2 | 4.9 | (1.4, 10.7) |
| Roscommon | 58 | 148.7 | (125.6, 173.7) | 11 | 31.4 | (20.8, 44) | 11 | 24.0 | (15.9, 33.7) | 6 | 14.7 | (8.5, 22.6) | 1 | _ | _ |
| Sligo | 67 | 187.6 | | 12 | 34.6 | (23.5, 47.8) | 8 | 17.7 | (10.9, 26.2) | 11 | 31.3 | (20.9, 43.8) | 2 | 6.2 | (2.1, 12.6) |
| Strabane | 29 | 136.0 | | 5 | 26.0 | (14.3, 41.2) | 5 | 20.8 | (11.4, 32.9) | 6 | 26.9 | (15.4, 41.6) | 1 | | _ |
| Tipperary | 131 | 170.5 | (153.5, 188.3) | 24 | 33.1 | (25.6, 41.5) | 16 | 20.6 | (15.1, 26.9) | 19 | 26.1 | (19.5, 33.6) | 5 | 6.9 | (3.7, 11) |
| Waterford Westmeath | 93 59 | | (153.5, 195.9) (141.9, 192.6) | 15 13 | 32.4 41.6 | (23.5, 42.8) (29.4, 55.8) | 11 8 | 19.9 | (13.4, 27.7) (13.7, 31.8) | 11 9 | 19.4 | (13.0, 27.1) (15.0, 33.2) | 5 1 | 9.3 | (5.0, 14.8) |
| Westmeath | | | | | | | | | | | | | | | _ |
| Wexford | 94 | | (138.9, 177.1) | | 26.4 | (19.1, 35.0) | | 22.8 | (16.2, 30.4) | 17 | 28.4 | (20.9, 37.2) | 3 | 5.5 | (2.5, 9.6) |
| Wicklow | 99 | 184.3 | (163.2, 206.5) | 18 | 33.1 | (24.5, 42.9) | 12 | 21.5 | (14.8, 29.3) | 17 | 32.6 | (24.0, 42.6) | 3 | 5.7 | (2.5, 10.1) |
| Rep of Ireland | 3498 | 172.0 | (168.6, 175.5) | 634 | 34.1 | (32.5, 35.7) | 469 | 21.7 | (20.5, 22.9) | 554 | 27.5 | (26.1, 28.8) | 127 | 6.4 | (5.8, 7.1) |
| Northern Ireland | 1745 | 160.4 | (155.9, 165.1) | 289 | 29.6 | (27.5, 31.7) | 248 | 20.6 | (19.1, 22.2) | 308 | 28.9 | (27.0, 30.9) | 74 | 7.0 | (6.0, 8.0) |
| All Ireland | 5242 | 168.1 | (165.4, 170.9) | | 32.6 | (31.3, 33.8) | 716 | 21.3 | (20.4, 22.3) | 862 | 27.9 | (26.8, 29.1) | 200 | 6.6 | (6.1, 7.2) |
| | | | | | | | | | | | | | | | |

major cancer sites by county and district council, 1998-2000 annual average

| me | elanoma | of skin | | agus | I | stoma | ach | | |
|----------------------|---------|-----------------|----------------------|------------|---------------------------|----------------------|------------|----------------------------|-------------------------------|
| cases per year | rate | 95% ci | cases per year | rate | 95% ci | cases per year | rate | 95% ci | county or district council |
| 0 | _ | _ | 2 | 5.9 | (1.8, 12.4) | 1 | _ | _ | Antrim |
| 1 | _ | _ | 2 | 2.7 | (0.8, 5.9) | 3 | 5.5 | (2.3, 10.2) | Ards |
| 1 | _ | _ | 3 | 8.0 | (3.3, 14.7) | 1 | _ | _ | Armagh |
| 0 | _ | _ | 2 | 3.8 | (1.3, 7.7) | 3 2 | 4.5 | (1.9, 8.3) (3.2, 21.8) | Ballymena Ballymoney |
| | | | | | (0 = 4 = 1) | | | , | |
| 0 3 | 1.3 | (0.5, 2.4) | 2 14 | 7.7 4.9 | (2.7, 15.4) (3.4, 6.6) | 3 21 | 9.1 | (3.7, 16.8) (6.4, 11.2) | Banbridge |
| 1 | - | (0.3, 2.4) | 2 | 8.3 | (3.0, 16.3) | 3 | 17.3 | (8.1, 30.0) | Belfast Carlow |
| 0 | _ | _ | 3 | 10.8 | (4.8, 19.3) | 2 | 5.7 | (1.8, 11.9) | Carrickfergus |
| 1 | _ | _ | 2 | 2.8 | (1.0, 5.5) | 3 | 6.3 | (2.9, 11.0) | Castlereagh |
| 0 | _ | _ | 1 | _ | _ | 3 | 7.4 | (3.1, 13.6) | Cavan |
| 1 | _ | - | 2 | 3.5 | (1.3, 6.9) | 3 | 5.5 | (2.4, 9.7) | Clare |
| 1 | _ | _ | 2 | 3.4 | (1.2, 6.7) | 3 | 8.7 | (4.1, 15.2) | Coleraine |
| 0 | _ | — (4.4.2.0) | 1 | – | (2.2.6.4) | 2 | 8.4 | (2.5, 17.7) | Cookstown |
| 5 | 2.0 | (1.1, 3.2) | 13 | 4.7 | (3.3, 6.4) | 12 | 4.8 | (3.3, 6.5) | Cork |
| 1 | _ | _ | 3 | 5.9 | (2.5, 10.8) | 3 | 5.6 | (2.3, 10.3) | Craigavon |
| 1 | _ | _ | 2 4 | 3.3 | (1.0, 6.9) | 5 7 | 9.1 | (5.0, 14.4) | Derry |
| 0 | | _ | 1 | 4.6 | (2.2, 8.0) | 2 | 7.2 6.3 | (4.2, 11.0) (2.4, 11.9) | Donegal |
| 14 | 2.5 | (1.8, 3.4) | 35 | 5.7 | (4.7, 6.9) | 48 | 7.8 | (6.5, 9.1) | Down Dublin |
| 1 | | | 1 | _ | | 1 | _ | | |
| 1 | _ | _ | 2 | 5.2 | (1.7, 10.7) | 2 | 5.9 | (2.2, 11.5) | Dungannon Fermanagh |
| 3 | 3.0 | (1.2, 5.4) | 5 | 3.8 | (2.1, 6.1) | 7 | 6.2 | (3.7, 9.4) | Galway |
| 1 | _ | _ | 5 | 6.3 | (3.4, 10.0) | 4 | 5.4 | (2.7, 9.0) | Kerry |
| 1 | _ | _ | 3 | 5.3 | (2.3, 9.6) | 2 | 3.2 | (1.2, 6.3) | Kildare |
| 0 | _ | _ | 4 | 7.6 | (3.7, 12.8) | 3 | 6.0 | (2.5, 11.0) | Kilkenny |
| 1 | _ | - | 2 | 6.5 | (2.3, 12.8) | 1 | _ | _ | Laois |
| 2 | 7.0 | (2.2, 14.4) | 2 | 6.9 | (2.2, 14.1) | 2 | 6.5 | (2.0, 13.6) | Larne |
| 0 | _ | _ | 0 | _ | _ | 2 1 | 7.3 | (2.1, 15.8) | Leitrim |
| 0 | _ | _ | U | _ | _ | l ' | _ | _ | Limavady |
| 3 | 2.9 | (1.2, 5.2) | 4 | 3.9 | (2.0, 6.5) | 7 | 6.8 | (4.2, 10.0) | Limerick |
| 2 | 2.3 | (0.7, 5.0) | 3 | 6.1 | (2.9, 10.6) | 2 | 3.7 | (1.4, 7.0) | Lisburn |
| 0 2 | 3.6 | — (1.1, 7.6) | 1 3 | 5.7 | (2.5, 10.2) | 3 4 | 13.3 | (5.3, 25.0) (3.3, 11.7) | Longford |
| 0 | _ | (1.1, 7.0) — | 1 | _ | (2.5, 10.2) | 1 | _ | (5.5, 11.7) | Louth Magherafelt |
| · · | | | | | (0.0. = 0) | 1 . | | (0.0. = 0) | |
| 1 | | _ | 2 | 2.5 4.1 | (0.9, 5.0) | 4 2 | 4.3 | (2.2, 7.2) | Mayo |
| 0 | | _ | 2 | 5.9 | (1.4, 8.1) (2.2, 11.6) | 4 | 12.7 | (1.4, 7.9) (6.1, 21.9) | Meath Monaghan |
| 0 | _ | _ | 0 | _ | _ | 1 | _ | _ | Moyle |
| 1 | _ | _ | 3 | 6.5 | (2.8, 11.5) | 5 | 10.0 | (5.4, 15.9) | Newry & Mourne |
| 1 | _ | _ | 4 | 6.8 | (3.4, 11.3) | 3 | 4.5 | (2.0, 8.0) | Newtownabbey |
| 1 | - | _ | 4 | 5.9 | (2.7, 10.3) | 4 | 6.6 | (3.3, 11.0) | North Down |
| 0 | _ | - | 1 | _ | _ | 5 | 15.2 | (8.4, 24.1) | Offaly |
| 0 | | _ | 2 | 7.2 | (2.8, 13.8) | 2 | 6.2 | (1.9, 12.8) | Omagh - |
| 0 | | _ | 1 | _ | _ | 3 | 6.1 | (2.4, 11.5) | Roscommon |
| 0 | - | _ | 2 | 4.2 | (1.1, 9.3) | 2 | 3.9 | (1.4, 7.7) | Sligo |
| 0 | | _ | 0 4 | 4.7 | (2.4, 7.8) | 1 5 | - 5.6 | (3.2, 8.8) | Strabane |
| 1 | | _ | 4 | 6.0 | (2.4, 7.6) | 4 | 6.3 | (3.2, 0.0) | Tipperary Waterford |
| 0 | _ | _ | 1 | _ | _ | 2 | 5.5 | (2.0, 10.9) | Westmeath |
| 1 | _ | _ | 2 | 2.9 | (1.0, 5.7) | 4 | 6.2 | (3.0, 10.5) | Wexford |
| 1 | _ | _ | 6 | 10.6 | (6.2, 16.2) | 4 | 7.1 | (3.4, 12.1) | wextora Wicklow |
| 39 | 2.0 | (1.7, 2.4) | 111 | 5.0 | (4.4, 5.6) | 147 | 6.6 | (6.0, 7.3) | Rep of Ireland |
| 17 | 1.6 | (1.2, 2.2) | 61 | 5.1 | (4.3, 5.9) | 78 | 6.6 | (5.7, 7.5) | Northern Ireland |
| 56 | 1.9 | (1.6, 2.2) | 172 | 5.0 | (4.6, 5.5) | 225 | 6.6 | (6.1, 7.1) | All Ireland |
| | Rat | tes adju | sted | to E | uropeai | n star | ndar | d popu | lation |

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Appendix C6

Male mortality and age-adjusted rates for the

| - | | | | • | | | | | | - 9- | , • | |
|-------------------------|--------------|----------------|----------------------------------|----------|--------------|------------------------------|--------------|--------------|------------------------------|---------|-----------------|----------------------------|
| county or | àll cases | | ombined | cases | colore | | lur cases | ng & bro | | cases | lympho | |
| | per year | rate | 95% ci | per year | rate | 95% ci | per yea | rate | 95% ci | per yea | rate | 95% ci |
| | 20 | 182.1 | (440.4.040.4) | 4 | 21.3 | (40.0. 25.4) | 40 | 53.6 | (20.2.74.4) | | 0.0 | (0.7.40.0) |
| Antrim Ards | 36 80 | 218.2 | (149.1, 218.4) (191.1, 247.0) | 10 | 28.9 | (10.9, 35.1) (19.4, 40.2) | 10 18 | 46.4 | (36.3, 74.1) (34.6, 59.9) | 2 | 8.2 5.7 | (2.7, 16.9) (2.1, 11.1) |
| Armagh | 53 | 212.9 | (180.8, 247.7) | 7 | 30.8 | (19.2, 45.2) | 14 | 55.8 | (39.9, 74.3) | 3 | 11.7 | (5.3, 20.5) |
| Ballymena | 60 | 198.9 | (170.7, 229.3) | 8 | 24.1 | (15.2, 35.1) | 15 | 50.1 | (36.4, 65.9) | 2 | 6.1 | (2.0, 12.5) |
| Ballymoney | 25 | 193.0 | (151.4, 239.6) | 4 | 27.6 | (13.6, 46.3) | 6 | 43.6 | (25.1, 67.2) | 1 | _ | _ |
| zanymoney | • | | , , | | | , , , | | | , , | • | | |
| Banbridge | 37 | 193.8 | (159.0, 232.0) | 4 | 19.7 | (9.8, 33.1) | 9 | 49.1 | (32.5, 69.2) | 2 | 8.5 | (2.7, 17.5) |
| Belfast | 392 | 282.4 | (266.2, 299.1) | 53 | 38.2 | (32.4, 44.4) | 118 | 83.7 | (75.1, 92.8) | 15 | 10.9 | (7.9, 14.5) |
| Carlow | 42 | 228.6 | (189.6, 271.1) | 6 | 34.0 | (19.9, 52.0) | 10 | 56.3 | (38.0, 78.3) | 1 | _ | _ |
| Carrickfergus | 42 | 248.3 | (205.8, 294.9) | 4 | 21.3 | (10.4, 36.0) | 11 | 62.4 | (42.8, 85.7) | 3 | 14.9 | (6.4, 27.0) |
| Castlereagh | 78 | 200.2 | (174.6, 227.5) | 12 | 30.8 | (21.5, 41.9) | 23 | 59.6 | (46.2, 74.8) | 2 | 4.9 | (1.5, 10.1) |
| | | | | | | | | | | | | |
| Cavan | 81 | 260.7 | (228.0, 295.5) | 11 | 33.0 | (22.3, 45.9) | 17 | 56.5 | (41.7, 73.4) | 2 | 7.9 | (3.1, 14.9) |
| Clare | 100 | 205.3 | (182.4, 229.5) | 18 | 36.3 | (27.1, 46.8) | 21 | 42.9 | (32.8, 54.3) | 3 2 | 6.6 | (3.0, 11.5) |
| Coleraine | 62 28 | 228.5 189.1 | (196.5, 263.0) (150.6, 231.9) | 9 | 34.3 | (22.6, 48.3) (8.2, 34.5) | 14 8 | 51.1 48.8 | (36.7, 67.8) (30.8, 71.0) | 2 | 7.3 | (2.9, 13.8) (3.9, 24.7) |
| Cookstown | 445 | 235.7 | (223.1, 248.7) | 72 | 37.9 | (33.0, 43.2) | 95 | 49.9 | (44.2, 55.9) | 19 | 9.8 | (7.4, 12.5) |
| Cork | 445 | 233.1 | (223.1, 240.1) | 12 | 31.9 | (33.0, 43.2) | 93 | 45.5 | (44.2, 33.3) | 19 | 9.0 | (7.4, 12.3) |
| Craigavon | 79 | 221.5 | (193.7, 251.1) | 14 | 41.0 | (29.2, 54.8) | 19 | 54.0 | (40.9, 68.9) | 2 | 4.6 | (1.5, 9.5) |
| Derry | 96 | 261.7 | (231.8, 293.3) | 9 | 25.2 | (16.5, 35.8) | 33 | 88.8 | (71.9, 107.5) | 4 | 10.3 | (5.3, 17.0) |
| Donegal | 148 | 207.1 | (187.8, 227.3) | 19 | 26.6 | (20.0, 34.1) | 32 | 47.8 | (38.6, 58.0) | 5 | 6.8 | (3.6, 11.0) |
| Down | 72 | 243.4 | (211.6, 277.3) | 10 | 32.5 | (21.6, 45.5) | 17 | 59.4 | (44.2, 76.7) | 2 | 5.6 | (1.8, 11.5) |
| Dublin | 1080 | 282.0 | (272.2, 291.9) | 150 | 39.2 | (35.6, 42.9) | 305 | 79.3 | (74.2, 84.5) | 39 | 9.7 | (8.0, 11.6) |
| | | | | - | | | | | | | | |
| Dungannon | 45 | 213.1 | (178.3, 251.0) | 5 | 23.4 | (12.7, 37.4) | 12 | 55.8 | (39.2, 75.4) | 1 | _ | _ |
| Fermanagh | 69 | 228.9 | (198.2, 261.7) | 9 | 29.0 | (19.1, 40.9) | 11 | 37.0 | (25.3, 50.9) | 4 | 14.4 | (7.3, 23.8) |
| Galway | 221 | 230.1 | (212.6, 248.3) | 35 | 37.0 | (30.2, 44.5) | 49 | 53.3 | (44.9, 62.3) | 9 | 10.1 | (6.6, 14.4) |
| Kerry | 173 | 244.5 | (223.5, 266.5) | 26 | 36.1 | (28.3, 44.8) | 39 | 54.7 | (45.0, 65.3) | 8 | 11.8 | (7.5, 17.0) |
| Kildare | 113 | 271.7 | (242.8, 302.2) | 18 | 43.0 | (32.1, 55.4) | 27 | 65.5 | (51.7, 80.8) | 5 | 10.9 | (5.8, 17.6) |
| IZU | 79 | 212.9 | (186.0, 241.5) | 10 | 28.5 | (19.2, 39.6) | 17 | 44.1 | (32.9, 57.0) | 4 | 10.7 | (5.5, 17.6) |
| Kilkenny | 61 | 227.1 | (194.8, 261.9) | 8 | 29.0 | (18.2, 42.4) | 12 | 46.0 | (32.1, 62.3) | 3 | 11.9 | (5.4, 21.0) |
| Laois Larne | 34 | 220.9 | (178.9, 267.3) | 3 | 17.6 | (7.4, 32.1) | 10 | 61.9 | (41.3, 86.5) | 1 | _ | (3.4, 21.0) |
| Leitrim | 40 | 222.9 | (183.6, 266.0) | 7 | 36.6 | (21.9, 54.9) | 8 | 50.3 | (31.9, 72.8) | 1 | _ | _ |
| Limavady | 27 | 212.1 | (168.1, 261.1) | 5 | 35.6 | (19.4, 56.7) | 6 | 45.7 | (26.6, 70.0) | 1 | _ | _ |
| Linavady | • | | , , | | | , , , | • | | , , | | | |
| Limerick | 182 | 256.2 | (234.9, 278.4) | 27 | 37.7 | (29.9, 46.4) | 46 | 64.9 | (54.4, 76.3) | 6 | 8.7 | (5.2, 13.1) |
| Lisburn | 94 | 207.7 | (184.0, 232.8) | 12 | 26.8 | (18.7, 36.3) | 25 | 54.8 | (43.1, 68.0) | 4 | 8.6 | (4.3, 14.4) |
| Longford | 41 | 236.7 | (195.5, 281.8) | 4 | 22.5 | (11.1, 38.0) | 8 | 49.0 | (31.3, 70.7) | 2 | 11.3 | (4.0, 22.1) |
| Louth | 97 | 258.3 | (229.0, 289.3) | 14 | 37.9 | (27.0, 50.6) | 27 | 71.7 | (56.7, 88.4) | 3 | 6.3 | (2.7, 11.4) |
| Magherafelt | 38 | 218.4 | (179.5, 261.0) | 5 | 26.5 | (14.3, 42.3) | 8 | 45.8 | (29.2, 66.0) | 2 | 12.6 | (5.0, 23.5) |
| | 405 | 239.4 | (040.4.004.7) | - 00 | 40.4 | (04.7.40.5) | | 45.4 | (00.0 55.0) | | 0.4 | (5.4.44.0) |
| Mayo | 165 102 | 239.4 | (218.1, 261.7) | 28 16 | 40.1 35.7 | (31.7, 49.5) | 30 18 | 45.1 39.9 | (36.0, 55.3) | 6 4 | 9.4 7.9 | (5.4, 14.6) |
| Meath | 57 | 220.2 | (207.1, 260.0) (187.9, 255.0) | 9 | 35.0 | (26.1, 46.7) (23.0, 49.4) | 12 | 48.9 | (29.8, 51.5) (34.1, 66.2) | 1 | - | (3.9, 13.3) |
| Monaghan | 20 | 228.3 | (173.5, 290.5) | 4 | 48.3 | (24.6, 79.8) | 5 | 52.7 | (28.4, 84.3) | 0 | | |
| Moyle Newry & Mourne | 91 | 258.7 | (228.2, 291.0) | 16 | 49.9 | (36.6, 65.2) | 22 | 58.7 | (45.1, 73.9) | 1 | | _ |
| wilduille | • ** | | , . , ==2) | • | | , ,/ | | | , . , , | | | |
| Newtownabbey | 93 | 243.7 | (215.4, 273.8) | 12 | 33.0 | (23.0, 44.8) | 20 | 50.8 | (38.6, 64.7) | 4 | 9.8 | (5.1, 16.2) |
| North Down | 82 | 193.6 | (169.7, 219.0) | 13 | 28.2 | (19.9, 38.0) | 17 | 39.8 | (29.4, 51.7) | 3 | 7.4 | (3.4, 13.0) |
| Offaly | 65 | 226.5 | (195.3, 259.9) | 10 | 35.0 | (23.4, 48.7) | 13 | 42.9 | (30.4, 57.5) | 3 | 9.5 | (4.1, 17.3) |
| Omagh | 41 | 198.1 | (164.3, 234.9) | 7 | 33.3 | (20.5, 49.3) | 10 | 49.0 | (33.1, 67.9) | 1 | _ | _ |
| Roscommon | 73 | 207.9 | (180.3, 237.4) | 14 | 40.4 | (28.7, 54.2) | 13 | 37.7 | (26.3, 51.1) | 0 | | _ |
| | I | 050 | (004.2.25 | | | (00 0 ==== | | | (40 = 5:- | | 4 | (F 7 45 -: |
| Sligo | 79 24 | 256.2 | (224.0, 290.5) | 12 | 41.9 | (29.3, 56.7) | 20 | 63.8 | (48.5, 81.3) | 4 | 11.7 | (5.7, 19.9) |
| Strabane | 34 | 206.2 208.4 | . , | 5 | 27.3 | (14.9, 43.4) | 9 | 55.5 | (36.8, 78.1) | 1 7 | - | — (E E 42.0) |
| Tipperary | 165 112 | 258.7 | (190.1, 227.5) (231.5, 287.3) | 24 16 | 36.3 | (23.9, 38.4) (26.6, 47.5) | 36 24 | 45.5 56.7 | (37.2, 54.6) (44.4, 70.6) | 3 | 8.9 8.3 | (5.5, 13.2) (4.0, 14.3) |
| Waterford Westmeath | 83 | 280.6 | . , | | 46.3 | (32.9, 61.9) | | 61.0 | (45.9, 78.1) | | 13.2 | (6.5, 22.2) |
| *vesuileau1 | | _50.0 | (= .0.7, 0 10.0) | .5 | .0.0 | (02.0, 01.0) | | 31.0 | , .0.0, 10.1) | . ~ | .0.2 | (0.0, 22.2) |
| Wexford | 121 | 248.2 | (223.2, 274.4) | 16 | 33.2 | (24.4, 43.2) | 27 | 56.3 | (44.8, 69.2) | 3 | 6.9 | (3.3, 11.9) |
| Wicklow | 107 | 256.6 | . , | | | (22.3, 42.1) | | 65.4 | (51.9, 80.5) | | 9.6 | (4.9, 15.8) |
| | • | | , | • | | . ′ | • | | , | • | | , |
| Rep of Ireland | 4034 | 246.3 | (241.9, 250.7) | 595 | 36.4 | (34.7, 38.2) | 954 | 58.2 | (56.1, 60.4) | 148 | 9.0 | (8.2, 9.9) |
| Northern Ireland | 1808 | 229.8 | (223.6, 236.0) | 245 | 31.3 | (29.1, 33.7) | 470 | 59.1 | (56.0, 62.2) | 65 | 8.3 | (7.2, 9.5) |
| All Ireland | 5842 | 241.0 | . , | • | | (33.4, 36.2) | - | 58.5 | | - | 8.8 | (8.1, 9.5) |
| | | | Rates | adjus | ted t | o Euro _l | oean | stan | dard po | pulat | ion | |
| | | | | | | | | | | | | |

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major cancer sites by county and district council, 1998-2000 annual average

| | n | nelanoma | of skin | Ī | oesopha | agus | Ī | prostate | . | | stoma | ch | |
|--|----------|----------|-------------|-----------|---------|--------------|----------|----------|--------------|------|-------|--------------|------------------|
| | ases per | | | cases per | | - | cases | | | | | | county or |
| 1 | year | Tuto | 3070 01 | year | idio | 3070 G | per year | Tuto | 00 70 GI | year | Tuto | 3070 61 | district council |
| | | _ | _ | | | | | | ' | | | | Antrim |
| 1 | | _ | _ | | | | | | ' | | | | Ards |
| 1 | | | _ | | | . , | | | ' | - | | , , | 3 |
| | | | _ | | | (6.3, 21.2) | | | | | | (5.3, 19.0) | |
| 24 | • | | | I ~ | | | l | 07.7 | (21.4, 00.0) | . ' | | | Ballymoney |
| 0 | | | (1.1.4.2) | | | , , | | | ` , | | | | _ |
| Company | | 2.4 | (1.1, 4.2) | | | , , | | | | | | | |
| 1 | | | _ | | | . , | | | ` ' ' | | | | |
| 1 | | _ | _ | | | , , , | | | | | | | - |
| 1 | 1 | _ | _ | 3 | 10.5 | (4 9 18 3) | 9 | 28.2 | (18.4.39.9) | 4 | 13.6 | (7 1 22 3) | Cayon |
| 0 — — — — — — — — — — — — — — — — — — — | | | _ | | | | | | | | | | |
| 0 | | _ | _ | | | | | | | | | | |
| 3 | 0 | _ | _ | 1 | _ | _ | 4 | 21.6 | (10.7, 36.2) | 2 | 11.5 | (3.6, 23.8) | |
| 2 | 3 | 1.4 | (0.6, 2.6) | 17 | 8.8 | (6.5, 11.3) | 60 | 31.8 | (27.2, 36.8) | 18 | 9.8 | (7.3, 12.5) | |
| 2 | 1 | _ | _ | 8 | 21.6 | (13.7, 31.4) | 6 | 17.2 | (10.2, 25.9) | 6 | 16.3 | (9.6, 24.6) | Craigayon |
| 1 | 2 | 4.9 | (1.5, 10.3) | 3 | 10.0 | | 8 | 22.5 | ' | 7 | 17.5 | (10.7, 26.0) | |
| 0 | 1 | _ | _ | 7 | 10.7 | (6.6, 15.7) | 23 | 28.6 | (22.1, 35.9) | 7 | 10.1 | (6.1, 15.0) | |
| 1 | 0 | _ | _ | 4 | 13.0 | (6.6, 21.4) | 11 | 37.4 | (25.8, 51.2) | 4 | 14.3 | (7.4, 23.6) | |
| 1 — — 2 7.5 (30, 14.0) 12 37.4 (258, 51.1) 5 17.7 (100, 27.6) Fermanagh 1 — — 10 11.1 (74, 15.4) 31 29.2 (234, 355.) 10 10.1 (68, 14.1) Galway 2 2.3 (07, 4.8) 9 12.5 (81, 17.9) 21 27.7 (211, 351.) 10 14.3 (95, 19.9) Kerry 1 — — 4 10.6 (55, 17.5) 13 36.8 (25.9, 49.5) 6 15.8 (90, 24.4) Kildare 1 — — 4 1.0 — 3 9.2 (39, 16.8) 12 42.1 (291, 57.6) 2 7.2 (26, 14.1) 20 0 — — 1 — — 2 12.1 (42, 24.1) 6 30.4 (18.1, 45.8) 1 — — 2 14.2 24.1 25.5, 34.6 2 | 12 | 2.8 | (2.0, 3.9) | 56 | 14.3 | (12.2, 16.6) | 106 | 29.8 | (26.6, 33.2) | 60 | 15.9 | (13.6, 18.3) | Dublin |
| 1 | 1 | _ | _ | 2 | 8.1 | (2.6, 16.7) | 5 | 23.9 | (12.9, 38.2) | 2 | 6.8 | (2.2, 13.9) | Dungannon |
| 2 2.3 (07,4.8) 9 12.5 (8.1,17.9) 21 27.7 (21.1,35.1) 10 14.3 (9.5,19.9) Kerry Kildare 1 | 1 | _ | - | 2 | 7.5 | (3.0, 14.0) | 12 | 37.4 | (25.8, 51.1) | 5 | 17.7 | (10.0, 27.6) | |
| 2 2.5 (0.8,5.1) 6 14.8 (8.5,22.8) 12 34.0 (236,46.4) 6 14.7 (8.5,22.5) Kildare 1 | 1 | _ | _ | 10 | 11.1 | (7.4, 15.4) | 31 | 29.2 | (23.4, 35.5) | 10 | 10.1 | (6.8, 14.1) | Galway |
| 1 | 2 | 2.3 | (0.7, 4.8) | 9 | 12.5 | (8.1, 17.9) | 21 | 27.7 | (21.1, 35.1) | 10 | 14.3 | (9.5, 19.9) | Kerry |
| 0 3 9.2 (3.9, 16.8) 12 42.1 (29.1, 57.6) 2 7.2 (26, 14.1) aois and composite to the c | 2 | 2.5 | (0.8, 5.1) | 6 | 14.8 | (8.5, 22.8) | 12 | 34.0 | (23.6, 46.4) | 6 | 14.7 | (8.5, 22.5) | Kildare |
| 0 | 1 | - | _ | 4 | 10.6 | (5.5, 17.5) | 13 | 36.8 | (25.9, 49.5) | 6 | 15.8 | (9.0, 24.4) | Kilkenny |
| 0 | 0 | | _ | 3 | 9.2 | (3.9, 16.8) | 12 | 42.1 | (29.1, 57.6) | 2 | 7.2 | (2.6, 14.1) | Laois |
| 0 — — 1 — — 4 34.3 (17.5, 56.6) 2 14.7 (54.28.7) Limavady 1 — — 7 9.2 (56, 13.6) 20 27.7 (20.9, 35.3) 8 12.3 (7.9, 17.7) Limavady 1 — — 5 10.4 (65.6, 16.5) 13 29.5 (21.0, 39.4) 5 10.4 (65.7, 16.6) Lisburn 0 — — 2 10.4 (32, 21.6) 7 39.5 (24.4, 58.2) 3 15.3 (64.28.0) Longford 1 — — 5 12.0 (66.92) 11 29.8 (20.5, 40.8) 9 23.1 (15.0, 32.9) Louth 1 — — 5 12.0 (62.15.1) 26 33.0 (26.0, 41.0) 8 11.3 (7.0, 16.6) Mayo 1 — — 7 14.9 (91, 22.3) 15 35.1 (25.3, 46.4) 7 16.1 (100.23.6) Meath 0 — — 3 11.2 (48.20.3) 9 30.3 (19.8, 43.0) 4 14.7 | | _ | _ | | | _ | | | ` , | | _ | _ | Larne |
| 1 | | _ | | | | (4.2, 24.1) | | | | | | _ | Leitrim |
| 1 — — 5 10.4 (5.6, 16.5) 13 29.5 (21.0, 39.4) 5 10.4 (5.7, 16.6) Lisburn 0 — — 2 10.4 (3.2, 21.6) 7 39.5 (24.4, 58.2) 3 15.3 (6.4, 28.0) Longford 1 — — 5 12.0 (6.6, 19.2) 11 29.8 (20.5, 40.8) 9 23.1 (15.0, 32.9) Louth 0 — — 2 9.7 (3.1, 20.0) 5 29.7 (16.8, 46.1) 3 14.8 (63, 27.0) Magherafelt 2 2.9 (0.9, 6.0) 7 10.2 (6.2, 15.1) 26 33.0 (26.0, 41.0) 8 11.3 (7.0, 16.6) Mayo 1 — — 7 14.9 (9.1, 22.3) 15 35.1 (25.3, 46.4) 7 16.1 (10.0, 23.6) Meath 0 — — 1 — — 2 14.5< | 0 | | _ | 1 | _ | _ | 4 | 34.3 | (17.5, 56.6) | 2 | 14.7 | (5.4, 28.7) | Limavady |
| 0 — — 2 10.4 (3.2, 21.6) 7 39.5 (24.4, 58.2) 3 15.3 (64, 28.0) Longford 1 — — 5 12.0 (66, 19.2) 111 29.8 (20.5, 40.8) 9 23.1 (15.0, 32.9) Louth 0 — — 2 9.7 (3.1, 20.0) 5 29.7 (16.8, 46.1) 3 14.8 (63, 27.0) Magherafelt 2 2.9 (0.9, 6.0) 7 10.2 (6.2, 15.1) 26 33.0 (26.0, 41.0) 8 11.3 (7.0, 16.6) Mayo 1 — — 7 14.9 (9.1, 22.3) 15 35.1 (25.3, 46.4) 7 16.1 (10.0, 23.6) Meath 0 — — 1 — — 2 14.5 (4.7, 29.9) 1 — — Moyle Newtownabley 1 — — 7 16.4 (10.0, 24.4) 12 | | _ | - | | | , , | | | ' | | | | Limerick |
| 1 — — 5 12.0 (6.6, 19.2) 11 29.8 (20.5, 40.8) 9 23.1 (15.0, 32.9) Couth 0 — — 2 9.7 (3.1, 20.0) 5 29.7 (16.8, 46.1) 3 14.8 (63, 27.0) Magherafelt 2 2.9 (09, 6.0) 7 10.2 (62, 15.1) 26 33.0 (26.0, 41.0) 8 11.3 (7.0, 16.6) Mayo 1 — — 7 14.9 (91, 22.3) 15 35.1 (25.3, 46.4) 7 16.1 (10.0, 23.6) Meath 0 — — 3 11.2 (48, 20.3) 9 30.3 (19.8, 43.0) 4 14.7 (73, 24.7) Monaghan 0 — — 1 — — 2 14.5 (4.7, 29.9) 1 — — Moyle Newty & Mourne 1 — — 7 16.4 (10.0, 24.4) 12 | | | _ | | | , , | | | | - | | | Lisburn |
| 0 — — 2 9.7 (3.1, 20.0) 5 29.7 (16.8, 46.1) 3 14.8 (63, 27.0) Magherafelt 2 2.9 (0.9, 6.0) 7 10.2 (6.2, 15.1) 26 33.0 (26.0, 41.0) 8 11.3 (7.0, 16.6) Mayo 1 — — 7 14.9 (9.1, 22.3) 15 35.1 (25.3, 46.4) 7 16.1 (10.0, 23.6) Meath 0 — — 3 11.2 (4.8, 20.3) 9 30.3 (19.8, 43.0) 4 14.7 (7.3, 24.7) Monaghan 0 — — 1 — — 2 14.5 (4.7, 29.9) 1 — — Moyle 2 4.4 (1.4, 8.9) 4 11.3 (5.8, 18.6) 9 28.8 (18.6, 41.1) 11 29.5 (20.0, 40.7) Newry & Mourne 1 — — 7 16.4 (10.0, 24.4) 12 30.6 (21.1, 41.9) 6 15.9 (9.3, 24.2) Newtownabbey 1 — — 3 8.0 (3.6, 14.1) 11 23.5 (16.0, 32.5) 4 10.0 (5.3, 16.2) North Down 0 — — 5 17.8 (10.1, 27.7) 7 23.8 (14.6, 35.3) 2 6.8 (22, 14.0) Offialy 0 — — 3 13.4 (5.7, 24.4) 5 22.4 (122, 35.8) 2 8.5 (31, 16.7) Omagh 1 — — 5 14.2 (7.7, 22.6) 13 34.1 (23.9, 46.1) 4 11.6 (6.1, 19.0) Roscommon 1 — — 1 — — 3 3.8.0 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 4 (50.0, 12.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 19.6 (11.5, 29.7) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Weterford 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 1 — — 7 14.7 (9.1, 21.6) 17 33.8 (25.1, 43.7) 4 7.4 (3.7, 12.4) Weterford 1 — — 7 14.8 (6.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow | | | | | | | | | | | | | |
| 2 | | _ | _ | | | | | | ' | | | | |
| 1 — — 7 14.9 (9.1, 22.3) 15 35.1 (25.3, 46.4) 7 16.1 (10.0, 23.6) Meath 0 — — 3 11.2 (4.8, 20.3) 9 30.3 (19.8, 43.0) 4 14.7 (7.3, 24.7) Monaghan 0 — — 1 — — 2 14.5 (4.7, 29.9) 1 — — Moyle 2 4.4 (14.8, 89) 4 11.3 (5.8, 18.6) 9 28.8 (18.6, 41.1) 11 29.5 (20.0, 40.7) Newtownabbey 1 — — 7 16.4 (10.0, 24.4) 12 30.6 (21.1, 41.9) 6 15.9 (9.3, 24.2) Newtownabbey 1 — — 3 8.0 (3.6, 14.1) 11 29.5 (16.0, 32.5) 4 10.0 (5.3, 16.2) North Down 0 — — 5 17.8 (10.1, 27.7) 7 23.8 | | | | | | , | | | | | | , , , | iviagneraleit |
| 0 — — 3 11.2 (4.8, 20.3) 9 30.3 (19.8, 43.0) 4 14.7 (7.3, 24.7) Monaghan 0 — — 1 — — 2 14.5 (4.7, 29.9) 1 — — Moyle 2 4.4 (1.4,8.9) 4 11.3 (5.8, 18.6) 9 28.8 (18.6, 41.1) 11 29.5 (20.0, 40.7) Newtownabbey 1 — — 3 8.0 (3.6, 14.1) 11 23.5 (16.0, 32.5) 4 10.0 (5.3, 16.2) Newtownabbey 0 — — 5 17.8 (10.1, 27.7) 7 23.8 (14.6, 35.3) 2 6.8 (22, 14.0) Offaly 0 — — 5 17.8 (10.1, 27.7) 7 23.8 (14.6, 35.3) 2 8.5 (3.1, 16.7) Omagh 1 — — 3 13.4 (5.7, 24.4) 5 22.4 | | 2.9 | (0.9, 6.0) | | | , , | | | ' | | | | - |
| 0 — — 1 — — 2 14.5 (4.7, 29.9) 1 — — Moyle 2 4.4 (1.4, 8.9) 4 11.3 (5.8, 18.6) 9 28.8 (18.6, 41.1) 11 29.5 (20.0, 40.7) Newtownabley 1 — — 7 16.4 (10.0, 24.4) 12 30.6 (21.1, 41.9) 6 15.9 (9.3, 24.2) Newtownabbey 1 — — 3 8.0 (3.6, 14.1) 11 23.5 (16.0, 32.5) 4 10.0 (5.3, 16.2) North Down 0 — — 5 17.8 (10.1, 27.7) 7 23.8 (14.6, 35.3) 2 6.8 (22, 14.0) Offfally 0 — — 3 13.4 (5.7, 24.4) 5 22.4 (12.2, 35.8) 2 8.5 (31.1, 16.7) Omagh 1 — — 1 — — 13 34.1 (23.9, 46.1) 4 11.6 (6.1, 19.0) Roscommon 1 — — 1 — — 12 38.5 (27.0, 52.1) 4 | | _ | _ | | | | | | | | | , , | |
| 2 4.4 (1.4, 8.9) 4 11.3 (5.8, 18.6) 9 28.8 (18.6, 41.1) 11 29.5 (20.0, 40.7) Newry & Mourne 1 | | | _ | | _ | (4.0, 20.3) | | | ' | | | (1.5, 24.1) | J |
| 1 | | 4.4 | (1.4, 8.9) | | 11.3 | (5.8, 18.6) | | | | | 29.5 | (20.0, 40.7) | |
| 1 — — 3 8.0 (3.6, 14.1) 11 23.5 (16.0, 32.5) 4 10.0 (5.3, 16.2) North Down 0 — — 5 17.8 (10.1, 27.7) 7 23.8 (14.6, 35.3) 2 6.8 (22, 14.0) Offaly 0 — — 3 13.4 (5.7, 24.4) 5 22.4 (12.2, 35.8) 2 8.5 (3.1, 16.7) Omagh 1 — — 5 14.2 (7.7, 22.6) 13 34.1 (23.9, 46.1) 4 11.6 (6.1, 19.0) Roscommon 1 — — 1 — — 12 38.5 (27.0, 52.1) 4 14.2 (7.4, 23.2) Sligo 0 — — 1 — — 3 17.6 (7.9, 31.1) 3 21.3 (10.2, 36.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 4 | 1 | | _ | - I 7 | 16.4 | (10.0.24.4) | 12 | 30.6 | (21 1 /11 0) | I 6 | 15.0 | | - |
| 0 — — 5 17.8 (10.1, 27.7) 7 23.8 (14.6, 35.3) 2 6.8 (22, 14.0) Offaly 0 — — 3 13.4 (5.7, 24.4) 5 22.4 (12.2, 35.8) 2 8.5 (3.1, 16.7) Omagh 1 — — 5 14.2 (7.7, 22.6) 13 34.1 (23.9, 46.1) 4 11.6 (6.1, 19.0) Roscommon 1 — — 1 — — 12 38.5 (27.0, 52.1) 4 14.2 (7.4, 23.2) Sligo 0 — — 1 — — 3 17.6 (7.9, 31.1) 3 21.3 (10.2, 36.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 8.4 (5.0, 12.6) Tipperary 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — </td <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>'</td> <td></td> <td></td> <td></td> <td></td> | | | _ | | | | | | ' | | | | |
| 0 — — 3 13.4 (5.7, 24.4) 5 22.4 (12.2, 35.8) 2 8.5 (3.1, 16.7) Omagh 1 — — 5 14.2 (7.7, 22.6) 13 34.1 (23.9, 46.1) 4 11.6 (6.1, 19.0) Roscommon 1 — — 1 — — 12 38.5 (27.0, 52.1) 4 14.2 (7.4, 23.2) Sligo 0 — — 1 — — 3 17.6 (7.9, 31.1) 3 21.3 (10.2, 36.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 8.4 (5.0, 12.6) Tipperary 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Westmeath 1 — < | | | | | | | | | | | | | |
| 1 — — 5 14.2 (7.7, 22.6) 13 34.1 (23.9, 46.1) 4 11.6 (6.1, 19.0) Roscommon 1 — — 1 — — 12 38.5 (27.0, 52.1) 4 14.2 (7.4, 23.2) Sligo 0 — — 1 — — 3 17.6 (7.9, 31.1) 3 21.3 (10.2, 36.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 8.4 (5.0, 12.6) Tipperary 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Westmeath 1 — — 7 14.7 (9.1, 21.6) 17 33.8 (25.1, 43.7) 4 7.4 (3.7, 12.4) Wexford 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (13, 2.4) | | _ | _ | | | | | | | | | | - |
| 0 — — 1 — — 3 17.6 (7.9, 31.1) 3 21.3 (10.2, 36.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 8.4 (5.0, 12.6) Tipperary 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Westmeath 1 — — 7 14.7 (9.1, 21.6) 17 33.8 (25.1, 43.7) 4 7.4 (3.7, 12.4) Wexford 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (13, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | 1 | | _ | 5 | 14.2 | (7.7, 22.6) | 13 | 34.1 | (23.9, 46.1) | 4 | 11.6 | (6.1, 19.0) | |
| 0 — — 1 — — 3 17.6 (7.9, 31.1) 3 21.3 (10.2, 36.6) Strabane 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 8.4 (5.0, 12.6) Tipperary 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Westmeath 1 — — 7 14.7 (9.1, 21.6) 17 33.8 (25.1, 43.7) 4 7.4 (3.7, 12.4) Wexford 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (13, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | 1 | | _ | 1 | _ | _ | 12 | 38.5 | (27.0, 52.1) | 4 | 14.2 | (7.4, 23.2) | Sligo |
| 1 — — 7 9.4 (5.8, 13.9) 28 32.8 (26.0, 40.4) 6 8.4 (5.0, 12.6) Tipperary 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Westmeath 1 — — 7 14.7 (9.1, 21.6) 17 33.8 (25.1, 43.7) 4 7.4 (3.7, 12.4) Wexford 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (13, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) N | | | _ | | | _ | | | , , | | | | |
| 1 — — 7 15.7 (9.5, 23.4) 13 31.6 (22.4, 42.3) 6 12.7 (7.5, 19.2) Waterford 0 — — 4 11.8 (5.8, 19.7) 10 35.0 (23.4, 48.9) 6 19.6 (11.5, 29.7) Westmeath 1 — — 7 14.7 (9.1, 21.6) 17 33.8 (25.1, 43.7) 4 7.4 (3.7, 12.4) Wexford 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (1.3, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | 1 | _ | _ | 7 | 9.4 | (5.8, 13.9) | 28 | 32.8 | (26.0, 40.4) | 6 | 8.4 | | |
| 0 — | 1 | _ | - | 7 | 15.7 | (9.5, 23.4) | 13 | 31.6 | (22.4, 42.3) | 6 | 12.7 | | |
| 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (1.3, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | 0 | _ | _ | 4 | 11.8 | (5.8, 19.7) | 10 | 35.0 | (23.4, 48.9) | 6 | 19.6 | (11.5, 29.7) | |
| 1 — — 6 14.8 (8.9, 22.2) 11 27.0 (18.5, 37.0) 6 14.4 (8.5, 21.9) Wicklow 34 2.0 (1.6, 2.4) 194 11.8 (10.9, 12.8) 516 31.1 (29.6, 32.7) 206 12.7 (11.7, 13.8) Rep of Ireland 14 1.8 (1.3, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | 1 | | _ | 7 | 14.7 | (9.1, 21.6) | 17 | 33.8 | (25.1, 43.7) | 4 | 7.4 | (3.7, 12.4) | Wexford |
| 14 1.8 (1.3, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | | _ | _ | | | | | | | | | | |
| 14 1.8 (1.3, 2.4) 94 12.2 (10.8, 13.6) 206 25.7 (23.7, 27.8) 114 14.6 (13.1, 16.2) Northern Ireland | 34 | 2.0 | (1.6, 2.4) | 194 | 11.8 | (10.9, 12.8) | 516 | 31.1 | (29.6, 32.7) | 206 | 12.7 | (11.7, 13.8) | Ren of Ireland |
| | | | | | | | | | | | | | |
| | 47 | 2.0 | | 288 | 11.9 | | 722 | 29.4 | | 321 | 13.3 | | All Ireland |

Appendix D1

Incidence rates per 100,000 by site, year and sex for all Ireland, 1994-2000

All rates age-adjusted to European standard population

| cancer site | | | | total | | | | | | | male | | | | | | е́ | female | | | |
|-----------------------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----------|---------|----------|--------|---------------|
| called one | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 3 | 2000 |
| bladder | 13.7 | 12.5 | 14.0 | 11.7 | 11.7 | 12.2 | 11.6 | 21.6 | 21.2 | 22.6 | 19.7 | 19.2 | 20.2 | 18.8 | 7.7 | 5.9 | 7.3 | 5.6 | | | |
| brain | 7.3 | 7.1 | 7.5 | 7.1 | 7.4 | 6.5 | 7.2 | 8.6 | 8.9 | 8.8 | 8.7 | 8.9 | 8.3 | 9.0 | 6.1 | 5.4 | 6.2 | 5.7 | | 4.8 | 5.5 |
| breast (female) | | ı | I | I | I | I | | I | I | I | I | I | I | | 96.7 | 97.1 | 98.5 | | _ | | $\overline{}$ |
| cervix | | ı | I | I | I | I | | I | I | I | I | I | I | | 10.2 | 9.7 | 12.3 | | | | _ |
| colorectal | 52.7 | 52.2 | 51.5 | 51.7 | 50.9 | 50.0 | 49.4 | 65.7 | 63.6 | 65.9 | 63.6 | 63.1 | 61.7 | 61.6 | 42.3 | 43.5 | 39.7 | 42.2 | 41.4 | 40.3 | w |
| endometrium | 1 | 1 | ı | 1 | 1 | ı | | 1 | 1 | 1 | ı | 1 | ı | ı | 11.4 | 12.6 | 12.7 | 13.6 | 11.5 | | _ |
| kidney & renal pelvis | 7.5 | 7.3 | 8.0 | 8.6 | 8.1 | 8.6 | ω | 10.7 | 9.4 | 10.8 | 11.6 | 11.1 | 11.8 | 11.8 | 4.9 | 5.6 | 5.4 | 6.0 | 5.7 | | |
| larynx | 3.5 | 3.9 | 3.5 | 3. 3 | 3.6 | 3.9 | 3.7 | 6.4 | 7.1 | 6.3 | 6.1 | 6.4 | 6.7 | 6.7 | <u>-</u> | 1.2 | <u>-</u> | 1.0 | <u>1</u> | 1.4 | |
| leukaemia | 9.5 | 9.6 | 9.3 | 10.5 | 10.2 | 9.0 | 10.0 | 12.2 | 13.0 | 11.3 | 12.9 | 13.1 | 12.3 | 13.5 | 7.6 | 6.8 | 7.9 | 8.6 | 8.0 | | |
| liver | 1.3 | 1.4 | 1.4 | 1.2 | 1.5 | 1.4 | 2.5 | 2.1 | 2.4 | 2.0 | 1.8 | 2.3 | 2.2 | 3.6 | 0.6 | 0.5 | 0.9 | 0.7 | 0.9 | | _ |
| lung & bronchus | 49.8 | 45.6 | 45.9 | 45.5 | 46.8 | 45.9 | 44.7 | 75.7 | 66.4 | 67.4 | 65.1 | 67.2 | 63.3 | 61.7 | 29.0 | 29.1 | 29.0 | 30.0 | 30.6 | | $\frac{3}{2}$ |
| lymphoma | 11.7 | 11.2 | 12.3 | 12.4 | 13.5 | 12.3 | 14.1 | 12.8 | 13.4 | 13.8 | 14.3 | 15.2 | 13.6 | 15.6 | 10.9 | 9.2 | 11.0 | 10.8 | 11.8 | | 12 |
| melanoma of the skin | 11.0 | 10.5 | 10.5 | 11.0 | 10.8 | 10.9 | 11.7 | 8.7 | 8.0 | 8.3 | 9.8 | 8.8 | 9.3 | 9.4 | 13.3 | 12.8 | 12.7 | 12.3 | 12.7 | | 13.8 |
| multiple myeloma | 5.6 | 4.5 | 5.1 | 6.0 | 4.9 | 4.7 | 5.4 | 6.5 | 5.7 | 6.8 | 7.3 | 6.5 | 5.9 | 7.0 | 5.0 | 3.6 | 3.8 | 4.9 | 3.6 | 3.9 | 4 |
| oesophagus | 8.8 | 9.0 | 8.6 | 9.1 | 7.9 | 8.7 | 8.0 | 12.5 | 12.0 | 12.1 | 13.1 | 11.0 | 12.2 | 10.3 | 5.8 | 6.2 | 5.7 | 5.6 | 5.0 | | 0 |
| oral cavity & pharynx | 9.3 | 9.2 | 8.9 | 8.5 | 7.9 | 7.8 | 7.4 | 15.3 | 14.4 | 14.3 | 13.8 | 12.0 | 12.0 | 11.3 | 4.1 | 4.9 | 4.3 | 4.1 | 4.3 | | 4 |
| ovary | ı | ı | I | ı | ı | I | L | I | ı | ı | ı | ı | ı | L | 17.4 | 19.3 | 17.7 | 20.1 | 19.2 | | 20 |
| pancreas | 8.9 | 8.0 | 9.6 | 9.7 | 8.6 | 8.4 | 9.1 | 10.0 | 8.9 | 11.3 | 11.4 | 10.2 | 10.3 | 10.0 | 8.1 | 7.2 | 8.4 | 8. 3 | 7.1 | | ~ |
| prostate | 1 | ı | ı | ı | ı | I | 1 | 67.6 | 69.9 | 71.5 | 71.3 | 74.2 | 78.8 | 88.9 | ı | ı | ı | ı | ı | I | |
| stomach | 14.6 | 13.8 | 14.7 | 13.7 | 14.1 | 13.4 | 12.3 | 21.4 | 20.2 | 20.8 | 19.7 | 20.0 | 18.6 | 17.1 | 9.1 | 8.7 | 9.9 | 8.9 | 9.0 | 9.1 | 8.4 |
| testis | | I | I | I | I | I | | 4.4 | 4.8 | 6.0 | 4.9 | 5.7 | 6.0 | 6.0 | I | I | I | I | I | Ι | |
| thyroid | 2.4 | 2.1 | 2.1 | 2.1 | 2.2 | 2.0 | 2.4 | 1.7 | 1.2 | 1.2 | 1.3 | 1.5 | 1.2 | 1.4 | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 | 2.8 | 3.3 |
| all sites combined | 361.9 | 353.8 | 362.0 | 360.0 | 360.6 | 357.5 | 368.9 | 411.8 | 399.8 | 408.8 | 402.6 | 402 s | 397.2 | 409 7 | 333 O | 327.9 | 334 9 | | | 33// 3 | 3453 |

Appendix D2

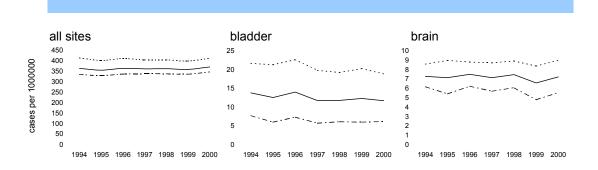
Mortality rates per 100,000 by site, year and sex for all Ireland, 1994-2000

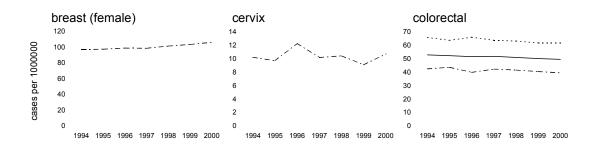
All rates age-adjusted to European standard population

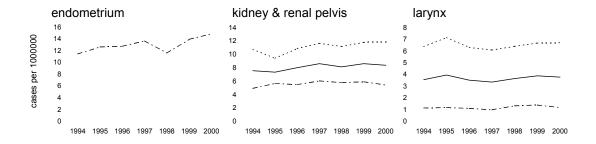
| cancer site bladder brain breast (female) cervix colorectal | 1994 4.7 6.1 | 1 1995 7 4.7 1 6.0 | 5 1996 7 4.4 0 6.0 | | ο ο ω • | 1998 1 3.9 5.3 | 1999 : 4.1 4.7 4.7 | 2000 4.1 5.8 | 1994 7.1 6.8 | 1995 8.3 7.8 39.7 | 1996 7.7 7.1 | male 1997 6.4 7.2 | 1998 6.6 6.5 | 3 1999 3 6.7 5 6.2 6 35.7 | N . | | 1994 2.9 5.6 37.3 3.9 23.5 | | 1995 2.4 4.3 36.6 3.7 24.0 | 1995 1996 2.4 2.2 4.3 4.9 36.6 34.4 3.7 4.8 24.0 22.3 1.8 2.2 | fem 1995 1996 1 2.4 2.2 4.3 4.9 36.6 34.4 3 3.7 4.8 24.0 22.3 2 1.8 2.2 | remale 1995 1996 1997 1 2.4 2.2 2.9 4.3 4.9 4.8 36.6 34.4 32.6 3 3.7 4.8 4.1 24.0 22.3 24.0 3 1.8 2.2 1.6 | female 1995 1996 1997 1998 1 2.4 2.2 2.9 2.1 4.3 4.9 4.8 4.1 36.6 34.4 32.6 31.7 3 3.7 4.8 4.1 4.2 24.0 22.3 24.0 21.2 2 1.8 2.2 1.6 1.9 |
|---|-------------------------------|--------------------------|--------------------------|---------|----------|----------------------|--------------------------|---------------------|---------------------|----------------------------|---------------------|----------------------------|--------------------|------------------------------------|--------------------------|----------------------|---|-------------------------|---|---|--|---|--|
| 3.4 3.5 3.7 4 1.7 1.3 1.5 1 5.2 4.6 5.2 5 | 3.5 3.7 1.3 1.5 4.6 5.2 | 3.7 1.5 5.2 | | O: — — | 5.8 | 3.9 | 3.8 | 4.0 1.4 5.6 | 4.8 2.7 6.8 | 5.0 2.1 6.1 | 5.3 2.9 6.7 | 6.1 3.6 7.3 | | 8 N 5 | 5.4 2.8 8.2 8.2 | 5.3 2.7 8.4 | | 5.3 2.7 8.4 | 5.3 6.0 2.7 2.7 8.4 8.1 | 2.2 5.3 6.0 2.4 2.7 2.7 0.9 8.4 8.1 4.1 | 2.2 1.8 5.3 6.0 2.4 2.2 2.7 2.7 0.9 0.6 8.4 8.1 4.1 3.6 | 2.2 1.8 2.2 5.3 6.0 2.4 2.2 2.3 2.7 2.7 0.9 0.6 0.3 8.4 8.1 4.1 3.6 4.1 | 2.2 1.8 2.2 1.6 5.3 6.0 2.4 2.2 2.3 2.7 2.7 2.7 0.9 0.6 0.3 0.5 8.4 8.1 4.1 3.6 4.1 4.7 |
| 3.4 3.2 | 3.4 3.2 | 3.2 | | _ `. : | | | 30 0 | 4.2 | 68 5 5.2 | 66.0 | 63.8 | ת | D) | - 0 1 | 7 5 5 | _ | 5.9 | 5.9 5.9 | 5.9 3.0 | 5.9 3.0 2.3 58.7 27.1 27.8 3 | 5.9 3.0 2.3 2.1 | 5.9 3.0 2.3 2.1 2.9 | 5.9 3.0 2.3 2.1 2.9 2.8 58.7 27.1 27.8 26.0 25.0 28.2 2 |
| 6.6 | 6.6 | | 6.8 | | | | 7.1 | 7.4 | 8.5 | 8.6 | 8.2 | | | • | | | Σī | 8.5 | 8.5 5.4 | 8.5 5.4 4.8 | 8.5 5.4 4.8 5.5 | 8.5 5.4 4.8 5.5 5.5 | 8.5 5.4 4.8 5.5 5.5 7.1 |
| melanoma of the skin 1.6 | O, | 1.6 | | 7 1 | 1.8 | 1.8 | 2.2 | 1.8 | 1.7 | 1.9 | 1.7 | 2.0 | 1.5 | 01 | | 2.5 | 2.5 | 2.5 | 2.5 1.8 | 2.5 1.8 | 2.5 1.8 1.7 1.4 | 2.5 1.8 1.7 1.4 1.6 | 2.5 1.8 1.7 1.4 1.6 1.7 |
| 4.1 | | 4.1 | 3.4 | | 3.4 | 3.6 | 3.7 | 3.7 | 4.7 | 5.3 | 4.7 | 4.4 | | - | 4.5 4. | 4.8 | | 4.8 5.0 | 4.8 5.0 | 4.8 5.0 3.7 3.2 | 4.8 5.0 3.7 3.2 2.5 | 4.8 5.0 3.7 3.2 2.5 2.5 | 4.8 5.0 3.7 3.2 2.5 2.5 |
| | 9.1 | 7.7 | 7 8.3 | 8 | ယ | 8.1 | 8.3 | 8.4 | 12.8 | 10.3 | 12.2 | 12.6 | | 11.9 | 11.9 11 | 11.8 | | 11.8 | 11.8 12.2 | 11.8 12.2 6.0 | 11.8 12.2 6.0 5.5 | 11.8 12.2 6.0 5.5 5.1 | 11.8 12.2 6.0 5.5 5.1 |
| | 3.6 | 3.8 | 3.9 | | 3.9 | 3.5 | 3.6 | ω ω | 5.6 | 6.0 | 6.1 | 6.4 | | 5 | 5.2 5. | 5.5 | | 5.5 | 5.5 4.8 | 5.5 4.8 1.9 | 5.5 4.8 1.9 1.9 | 5.5 4.8 1.9 1.9 2.1 | 5.5 4.8 1.9 1.9 2.1 1.8 2.0 |
| | 6.0 | | וט מ | න ග | | 5.9 | 6.4 | 0 6 2 | 0.0 | 0.0 | 0.0 | | | 0.0 | | 0.0 | 0.0 0.0 | 0.0 | 0.0 0.0 | 0.0 0.0 11.0 | 0.0 0.0 11.0 11.2 | 0.0 0.0 11.0 11.2 10.7 | 0.0 0.0 11.0 11.2 10.7 12.8 |
| | 9.0 | 9 | c | | ų C | <u>(</u> | Ċ | <u>.</u> | 30.1 | 31.9 | 31.6 | 31.1 | | | 30.4 | 30.4 28.2 | 30.4 28.2 | 30.4 28.2 30.0 | 30.4 28.2 30.0 | 30.4 28.2 30.0 | 30.4 28.2 30.0 | 30.4 28.2 30.0 | 30.4 28.2 30.0 |
| | 11.6 | 3 10.9 | 9 11.0 | | 9.7 10 | 10.0 | 9.5 | 9.3 | 16.4 0.5 | 15.8 0.3 | 15.3 0.5 | 14.1 0.3 | | | 13.7 0.2 | 13.7 13.3 0.2 0.5 | 13.7 0.2 | 13.7 13.3 0.2 0.5 | 13.7 13.3 13.2 0.2 0.5 0.4 | 13.7 13.3 13.2 7.8 0.2 0.5 0.4 | 13.7 13.3 13.2 7.8 7.1 0.2 0.5 0.4 | 13.7 13.3 13.2 7.8 7.1 7.8 0.2 0.5 0.4 | 13.7 13.3 13.2 7.8 7.1 7.8 6.3 0.2 0.5 0.4 |
| | 0.7 | 0.6 | 8 0.7 | | 0.7 (| 0.4 | 0.5 | | 0.6 | 0.7 | 0.4 | | ~ | | 0.3 | 0.3 0.4 | 0.3 0.4 0.3 | 0.3 0.4 0.3 0.8 | 0.3 0.4 0.3 0.8 0.6 | 0.3 0.4 0.3 0.8 0.6 0.9 | 0.3 0.4 0.3 0.8 0.6 0.9 0.7 | 0.3 0.4 0.3 0.8 0.6 0.9 0.7 | 0.3 0.4 0.3 0.8 0.6 0.9 0.7 0.5 |
| 2 | 211.0 | 207.4 | 1 204.1 | 1 203.0 | .0 200.4 | 0.4 10 | 196.7 1 | 198.4 | 257.6 | 258.4 | 254.3 | 247.7 | 7.7 | | 247.4 | 247.4 240.4 | 247.4 240.4 237.9 | 247.4 240.4 237.9 178.9 | 247.4 240.4 237.9 178.9 173.0 | 247.4 240.4 237.9 178.9 173.0 169.4 | 247.4 240.4 237.9 178.9 173.0 169.4 172.6 | 247.4 240.4 237.9 178.9 173.0 169.4 172.6 | 247.4 240.4 237.9 178.9 173.0 169.4 |

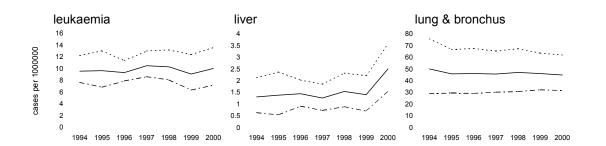
Appendix E1

Incidence rate trends

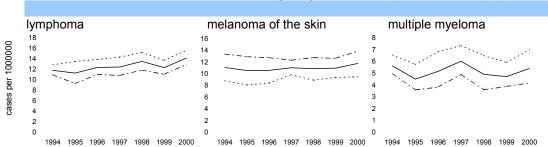


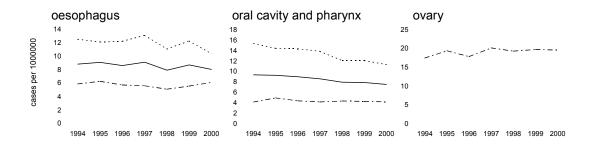


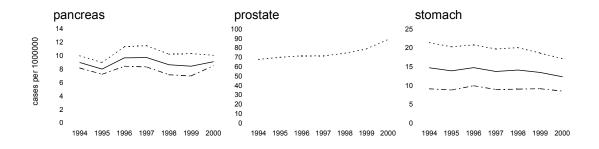


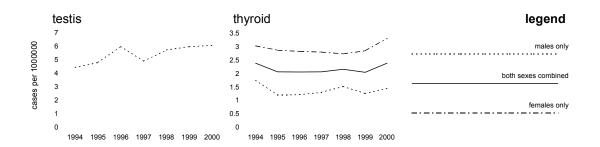


for each site and by sex, 1994 - 2000



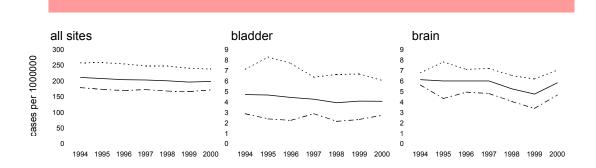


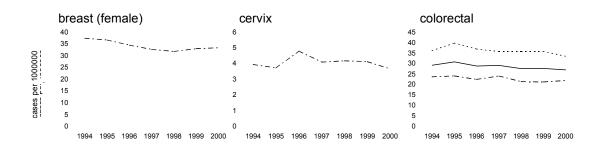


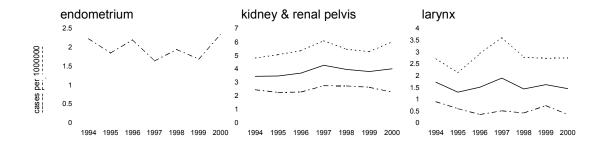


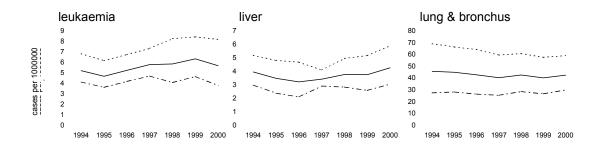
Appendix E2

Mortality rate trends

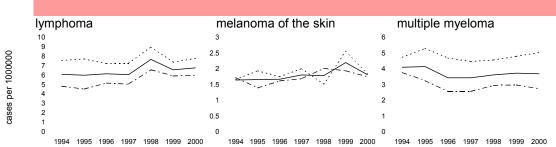


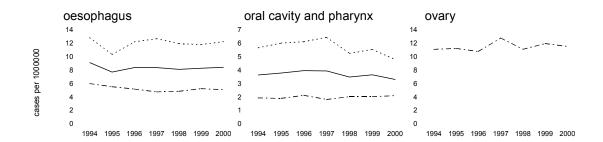


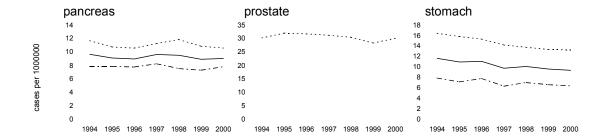


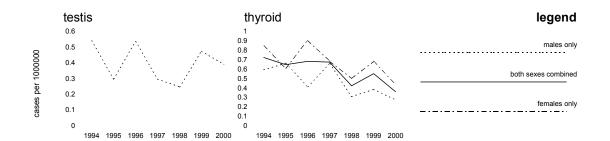


for each site and by sex, 1994 - 2000









| district council | county or | Appendix F1 |
|---|-----------|---|
| 00-04 05-09 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 | | |
| 05-09 | | |
| 10-14 | | |
| 15-19 | | |
| 20-24 | | Fe |
| 25-29 | | male p |
| 30-34 | | opulat |
| 35-39 | | tion es |
| 40-44 | age grou | Female population estimates by cou |
| 45-49 | 듐 | by co |
| 50-54 | | _ |
| 55-59 | | nd disti |
| 60-64 | | rict cou |
| 65-69 | | ıncil, 1 |
| 70-74 | | 998-20 |
| 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85+ | | nty and district council, 1998-2000 average |
| 0-84 8 | | age |
| 4 | | |

| Dungannon Fermanagh Galway Kerry Kildare | Craigavon Derry Donegal Down Down | Cavan Clare Coleraine Cookstown | Banbridge Belfast Carlow Carrickfergus Castlereagh | Antrim Ards Armagh Ballymena Ballymoney |
|--|---|--|--|---|
| | | | h jus | У |
| 1795 | 2904 | 1881 | 1329 | 1855 |
| 1951 | 4224 | 3356 | 8937 | 2252 |
| 6350 | 4691 | 1867 | 1420 | 1867 |
| 4137 | 2246 | 1096 | 1222 | 1917 |
| 5397 | 35918 | 14472 | 2206 | 907 |
| 1952 | 3070 | 2098 | 1365 | 1782 |
| 2056 | 4490 | 3577 | 9906 | 2378 |
| 6759 | 5111 | 1913 | 1579 | 2106 |
| 4540 | 2575 | 1330 | 1348 | 1925 |
| 5513 | 35592 | 14823 | 2284 | 961 |
| 2048 | 3151 | 2371 | 1546 | 1764 |
| 2441 | 4779 | 4081 | 10480 | 2469 |
| 7750 | 5730 | 1967 | 1830 | 2228 |
| 5376 | 2593 | 1431 | 1398 | 2237 |
| 6001 | 37567 | 16899 | 2122 | 1009 |
| 1818 | 2795 | 2248 | 1347 | 1606 |
| 2159 | 4591 | 4198 | 11689 | 2358 |
| 9175 | 6195 | 2142 | 2041 | 2093 |
| 5539 | 2366 | 1331 | 1244 | 2011 |
| 6255 | 47230 | 19370 | 1862 | 900 |
| 1527 | 2271 | 1563 | 1110 | 1514 |
| 1623 | 3986 | 3176 | 12465 | 1964 |
| 8987 | 4813 | 2235 | 1645 | 1577 |
| 4411 | 1754 | 1047 | 1110 | 1597 |
| 5752 | 57352 | 18038 | 1590 | 728 |
| 1724 | 2753 | 1619 | 1518 | 1922 |
| 1926 | 4161 | 3152 | 10665 | 2486 |
| 6947 | 4504 | 1966 | 1531 | 2009 |
| 4097 | 2056 | 1172 | 1362 | 2048 |
| 5445 | 52927 | 16349 | 2247 | 926 |
| 1693 | 3301 | 1653 | 1588 | 2071 |
| 1931 | 4355 | 3113 | 10908 | 2805 |
| 6315 | 4218 | 2176 | 1475 | 1918 |
| 4083 | 2393 | 1176 | 1637 | 2265 |
| 5492 | 44616 | 15446 | 3032 | 1026 |
| 1655 | 3086 | 1828 | 1618 | 1842 |
| 1997 | 4118 | 3380 | 10647 | 2866 |
| 6999 | 4307 | 2078 | 1556 | 1958 |
| 4434 | 2347 | 1137 | 1604 | 2131 |
| 5719 | 41135 | 15532 | 2976 | 982 |
| 1491 | 2637 | 1695 | 1391 | 1563 |
| 1911 | 3461 | 3346 | 9230 | 2538 |
| 6533 | 4185 | 1907 | 1389 | 1712 |
| 4323 | 2132 | 1053 | 1358 | 1959 |
| 5255 | 37665 | 14488 | 2441 | 868 |
| 1339 | 2311 | 1569 | 1172 | 1456 |
| 1763 | 3030 | 3287 | 7489 | 2437 |
| 5861 | 4118 | 1645 | 1279 | 1546 |
| 4110 | 1915 | 948 | 1099 | 1907 |
| 4630 | 34706 | 13563 | 1922 | 730 |
| 1316 | 2417 | 1403 | 1154 | 1464 |
| 1680 | 2706 | 2774 | 7460 | 2595 |
| 5292 | 3620 | 1669 | 1200 | 1587 |
| 3754 | 1827 | 923 | 1127 | 1884 |
| 3708 | 31827 | 12434 | 1954 | 751 |
| 1123 | 2037 | 1106 | 1045 | 1322 |
| 1329 | 2292 | 2082 | 6953 | 2091 |
| 3935 | 2956 | 1541 | 868 | 1319 |
| 2959 | 1532 | 770 | 968 | 1673 |
| 2500 | 25771 | 9835 | 1865 | 740 |
| 990 | 1884 | 1110 | 888 | 967 |
| 1202 | 1988 | 1691 | 6863 | 1660 |
| 3579 | 2477 | 1408 | 805 | 1176 |
| 2616 | 1374 | 631 | 861 | 1479 |
| 1840 | 22016 | 8748 | 1729 | 591 |
| 996 | 1640 | 1065 | 817 | 807 |
| 1107 | 1753 | 1721 | 6937 | 1566 |
| 3349 | 2371 | 1258 | 709 | 1065 |
| 2563 | 1220 | 552 | 820 | 1326 |
| 1514 | 19100 | 7761 | 1781 | 558 |
| 863 | 1453 | | 699 | 691 |
| 1107 | 1535 | | 6649 | 1455 |
| 3163 | 2310 | | 695 | 1001 |
| 2467 | 1153 | | 691 | 1190 |
| 1484 | 16433 | | 1664 | 522 |
| 709 985 2851 2178 1238 | | 1006 1422 962 479 6140 | | 610 1259 810 994 455 |
| | | 614 936 674 336 4016 | | 405 852 539 681 293 |
| 366 | 724 | 438 | 362 | 369 |
| 576 | 674 | 755 | 3744 | 820 |
| 1521 | 1247 | 629 | 262 | 468 |
| 1119 | 702 | 273 | 369 | 649 |
| 623 | 7635 | 3274 | 722 | 209 |

| Rep of Ireland Northern Ireland All-Ireland | Wexford Wicklow | Sligo Strabane Tipperary Waterford Westmeath | Newtownabbey North Down Offaly Omagh Roscommon | Mayo Meath Monaghan Moyle Newry & Mourne | Limerick Lisburn Longford Louth Magherafelt | Kilkenny Laois Larne Leitrim Limavady |
|---|--------------------|--|--|--|---|---|
| 125620 131516 57881 62171 183501 193687 | 3748 3748 | 1798 1455 4714 3254 2309 | 2520 2047 2142 1767 1646 | 3687 3866 1828 483 3443 | 5602 3925 1066 3255 1538 | 2668 1907 930 761 1196 |
| | 3963 3924 | 1994 1479 4991 3474 2365 | 2758 2346 2282 1894 1882 | 4280 4418 2113 587 3531 | 5748 4236 1122 3437 1594 | 2914 2077 1051 939 1255 |
| | 4510 4399 | 2258 1640 5743 3740 2800 | 2785 2603 2629 2093 2237 | 4918 5065 2300 642 3818 | 6681 4216 1369 3844 1693 | 3203 2408 1115 1034 1300 |
| 166248 62717 228965 | 4830 4729 | 2644 1462 6083 4436 3107 | 2649 2499 2826 1928 2259 | 4960 5291 2297 581 3455 | 8065 3982 1371 4356 1538 | 3413 2347 1067 984 1245 |
| 156502 144472 134076 135264 55100 61170 65737 64149 211602 205642 199813 199413 | 3664 3818 | 2199 1216 4818 3869 2551 | 2745 2030 2094 1510 1412 | 3392 3797 1766 426 2623 | 7921 3298 882 3863 1252 | 2433 1666 799 620 1103 |
| 144472 61170 205642 | 3823 3876 | 1849 1506 4618 3643 2283 | 2956 2396 2016 1813 1327 | 3235 3708 1719 522 3164 | 6147 4008 918 3724 1501 | 2576 1813 1081 627 1282 |
| 134076 135264 65737 64149 199813 199413 | 3675 4021 | 1836 1439 4517 3482 2216 | 3226 2737 2043 1718 1537 | 3375 3948 1706 548 3216 | 5849 4637 873 3413 1452 | 2628 1853 1213 694 1274 |
| 135264 64149 199413 | 3786 4016 | 2110 1273 4739 3336 2286 | 3189 2885 2099 1736 1832 | 3889 4436 1796 542 3156 | 5903 4597 1034 3397 1391 | 2867 1984 1202 865 1139 |
| 126751 117463 106448 56261 49625 49012 183012 167088 155460 | 3469 3842 | 2002 1167 4621 3201 2226 | 2754 2714 1974 1622 1788 | 3819 4264 1622 527 2791 | 5585 3765 1009 3059 1258 | 2677 1847 1053 870 958 |
| 117463 49625 167088 | 3296 3524 | 1871 1056 4324 2994 1955 | 2517 2640 1851 1413 1590 | 3529 3789 1622 484 2539 | 5293 3286 984 3047 1091 | 2364 1526 948 782 940 |
| 106448 49012 155460 | 3204 3201 | 1590 1065 3972 2857 1729 | 2474 2828 1683 1236 1453 | 3099 3288 1359 479 2297 | 4932 3237 880 2790 1035 | 2272 1450 985 677 860 |
| 83006 42644 125650 | 2487 2340 | 1300 901 3105 2222 1388 | 2164 2236 1291 1090 1187 | 2510 2228 1100 423 1936 | 3699 2805 630 2101 884 | 1649 1137 885 620 723 |
| 83006 72682 65648 60963 51569 33911 27418 42644 37752 35270 32604 27779 18293 17060 25650 110434 100918 93567 79348 52204 44478 | 2223 1881 | 1154 789 2862 2074 1231 | 2001 1791 1204 884 1208 | 2291 1930 1042 393 1755 | 3198 2328 633 1735 754 | 1529 1081 790 525 573 |
| 65648 35270 100918 | 1870 1717 | 1065 706 2658 1742 1183 | 1834 1733 1069 827 1224 | 2300 1626 968 324 1635 | 2905 2086 620 1629 717 | 1371 961 722 587 484 |
| 60963 5 32604 2 93567 7 | 1781 1546 | 1129 653 2515 1694 1123 | 1724 1773 1039 760 1134 | 2381 1520 924 352 1488 | 2766 1890 599 1606 611 | 1351 902 620 597 469 |
| 51569 33911 27418 27779 18293 17060 79348 52204 44478 | 1497 1330 | 985 496 1938 1280 918 | 1325 1672 877 686 1019 | 2264 1266 763 281 1216 | 2254 1535 526 1374 513 | 1166 769 550 544 383 |
| 33911 2: 18293 1: 52204 4 | 924 819 | 669 314 1200 896 564 | 805 1232 486 471 726 | 1626 895 524 190 772 | 1451 1008 354 795 369 | 690 460 372 368 229 |
| 27418 17060 44478 | 810 791 | 502 275 913 731 434 | 808 1188 364 404 530 | 1167 663 419 191 655 | 1228 1031 247 603 282 | 549 333 366 257 205 |

| Dungannon | Craigavon | Cavan | Banbridge | Antrim |
|--------------------------------------|---------------------------------------|------------------------------|--------------------------------------|-------------------------------------|
| Fermanagh | Derry | Clare | Belfast | Ards |
| Galway | Donegal | Coleraine | Carlow | Armagh |
| Kerry | Down | Cookstown | Carrickfergus | Ballymena |
| Kildare | Dublin | Cork | Castlereagh | Ballymoney |
| (T. A. (D. A.) | 3 | | N | |
| 1870 2070 6761 4379 5550 | 3095 4439 4952 2334 39040 | 2016 3584 1875 1172 | 1520 9271 1529 1301 2329 | 1927 2391 1976 1900 960 |
| 2015 | 3355 | 2146 | 1567 | 1863 |
| 2229 | 4529 | 3749 | 10222 | 2513 |
| 7254 | 5497 | 1982 | 1680 | 2200 |
| 4738 | 2621 | 1317 | 1361 | 2101 |
| 5672 | 37116 | 1317 | 2373 | 993 |
| 2128 | 3395 | 2448 | 1605 | 1882 |
| 2546 | 5107 | 4284 | 10917 | 2628 |
| 8155 | 6009 | 2156 | 1872 | 2389 |
| 5566 | 2742 | 1520 | 1457 | 2300 |
| 6408 | 39873 | 17416 | 2139 | 1101 |
| 1917 | 2899 | 2445 | 1463 | 1772 |
| 2268 | 4915 | 4481 | 11005 | 2411 |
| 9463 | 6404 | 1888 | 2229 | 1983 |
| 5999 | 2676 | 1394 | 1307 | 2053 |
| 7235 | 48206 | 20182 | 2009 | 950 |
| 1584 | 2241 | 1899 | 1159 | 1701 |
| 1747 | 4146 | 3580 | 11390 | 2008 |
| 8573 | 5129 | 1909 | 1945 | 1642 |
| 4756 | 2010 | 1145 | 995 | 1609 |
| 6155 | 52697 | 18785 | 1574 | 736 |
| 1806 | 2916 | 1840 | 1543 | 2312 |
| 2031 | 4034 | 3369 | 10065 | 2428 |
| 7162 | 4758 | 1799 | 1548 | 1895 |
| 4524 | 2173 | 1193 | 1294 | 2164 |
| 5519 | 50105 | 16857 | 2094 | 1004 |
| 1690 | 3231 | 1803 | 1739 | 2316 |
| 2019 | 4098 | 3166 | 9822 | 2735 |
| 6201 | 4064 | 2000 | 1464 | 1950 |
| 4156 | 2418 | 1128 | 1550 | 2257 |
| 5445 | 41198 | 15746 | 2695 | 1036 |
| 1692 | 3123 | 1933 | 1573 | 2027 |
| 2060 | 3850 | 3493 | 9333 | 2677 |
| 6566 | 4177 | 1981 | 1514 | 1965 |
| 4467 | 2353 | 1150 | 1556 | 2022 |
| 5486 | 38016 | 15309 | 2815 | 964 |
| 1556 | 2559 | 1902 | 1474 | 1611 |
| 1991 | 3198 | 3354 | 8260 | 2506 |
| 6546 | 4310 | 1875 | 1448 | 1826 |
| 4517 | 2089 | 1033 | 1286 | 1971 |
| 5174 | 34284 | 14555 | 2317 | 877 |
| 1387 | 2361 | 1786 | 1232 | 1461 |
| 1856 | 2868 | 3388 | 7341 | 2356 |
| 6128 | 4184 | 1683 | 1359 | 1629 |
| 4374 | 1936 | 955 | 1207 | 1901 |
| 4682 | 32002 | 13774 | 1938 | 783 |
| 1287 | 2211 | 1626 | 1141 | 1458 |
| 1715 | 2661 | 3119 | 6949 | 2548 |
| 5685 | 4148 | 1624 | 1204 | 1570 |
| 4146 | 1858 | 906 | 1032 | 1804 |
| 4102 | 29640 | 12704 | 1772 | 754 |
| 1095 | 1992 | 1302 | 995 | 1230 |
| 1384 | 2182 | 2276 | 6328 | 2079 |
| 4533 | 3136 | 1464 | 991 | 1323 |
| 3193 | 1558 | 792 | 973 | 1562 |
| 2503 | 23893 | 10108 | 1649 | 687 |
| 972 | 1667 | 1253 | 804 | 960 |
| 1202 | 1881 | 1966 | 5854 | 1611 |
| 3800 | 2667 | 1233 | 848 | 1102 |
| 2828 | 1302 | 601 | 787 | 1374 |
| 1875 | 19433 | 8515 | 1490 | 547 |
| 820 | 1400 | 1193 | 722 | 774 |
| 1035 | 1477 | 1782 | 5288 | 1304 |
| 3353 | 2432 | 1072 | 763 | 903 |
| 2579 | 1050 | 504 | 660 | 1132 |
| 1506 | 15801 | 7334 | 1445 | 488 |
| 685 | 1105 | 1034 | 594 | 571 |
| 931 | 1173 | 1399 | 4580 | 1103 |
| 2842 | 2121 | 847 | 595 | 748 |
| 2142 | 853 | 461 | 542 | 938 |
| 1207 | 11603 | 5693 | 1280 | 406 |
| 479 | 823 | 804 | 408 | 413 |
| 731 | 741 | 1150 | 3412 | 865 |
| 2263 | 1752 | 654 | 420 | 551 |
| 1797 | 695 | 334 | 401 | 675 |
| 877 | 7750 | 4266 | 988 | 325 |
| 268 | 448 | 440 | 261 | 230 |
| 427 | 398 | 699 | 1834 | 523 |
| 1381 | 1092 | 369 | 222 | 312 |
| 1092 | 379 | 196 | 213 | 386 |
| 434 | 4057 | 2396 | 487 | 171 |
| 156 | 244 | 237 | 149 | 145 |
| 294 | 212 | 469 | 1199 | 295 |
| 939 | 711 | 221 | 109 | 195 |
| 599 | 252 | 139 | 107 | 250 |
| 260 | 2577 | 1348 | 263 | 28 |

| Rep of Ireland Northern Ireland All-Ireland Data sources | Wexford Wicklow | Sligo Strabane Tipperary Waterford Westmeath | Newtownabbey North Down Offaly Omagh Roscommon | Mayo Meath Monaghan Moyle Newry & Mourne | Limerick Lisburn Longford Louth Magherafelt | Kilkenny Laois Larne Leitrim Limavady |
|---|--------------------|--|--|--|---|---|
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| 34141 1: 61107 (95248 2: Id : land : | 3898 4043 | 1967 1550 5270 3489 2408 | 2750 2240 2266 1864 1715 | 3855 4190 1970 514 3636 | 5864 4241 1051 3475 1617 | 2753 1993 992 845 1273 |
| 38553 1 35135 35135 23688 2 Departm Northerr | 4201 4168 | 2034 1513 5574 3566 2397 | 2926 2435 2396 1958 1975 | 4421 4644 2053 573 3804 | 6238 4550 1221 3661 1636 | 3079 2257 1111 938 1388 |
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| 175279 64365 239644 ealth and Statistics | 5059 4900 | 2657 1535 6875 4722 3231 | 2688 2732 3097 2145 2448 | 5230 5617 2640 620 3502 | 8508 4183 1622 4607 1575 | 3672 2601 1066 1149 1408 |
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| 72081 34791 106872 n http://w | 2236 1948 | 1201 772 3086 2025 1300 | 1825 1688 1245 888 1303 | 2580 1848 1076 387 1729 | 3301 2111 732 1737 706 | 1547 1074 725 653 576 |
| 85110 72081 62311 5018 40811 34791 29725 2476 125921106872 92036 7495 Population http://www.nisra.gov.uk/ | 1937 1503 | 1170 650 2902 1716 1113 | 1573 1434 1124 762 1285 | 2398 1660 967 299 1388 | 2738 1778 563 1399 648 | 1449 1016 662 628 457 |
| 50184 24768 74952 gov.uk/ | 1494 1246 | 972 537 2529 1389 973 | 1351 1269 952 625 1087 | 2102 1336 834 245 1125 | 2219 1420 534 1231 527 | 1222 882 488 547 364 |
| 37128 18440 55568 | 1025 893 | 722 364 1951 980 712 | 901 1075 689 490 843 | 1761 1005 638 200 836 | 1537 1014 423 847 390 | 917 625 388 482 285 |
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| 12818 6204 19022 | 419 323 | 277 127 730 315 216 | 240 435 206 180 340 | 728 316 200 65 232 | 502 365 129 233 148 | 251 203 98 180 94 |