Uterine cancer

1993-2021

(ICD10 codes: C54-C55)



Northern Ireland Cancer Registry, 2024

An official statistics publication

ABOUT THIS REPORT

Contents

This report includes information on incidence of uterine cancer as recorded by the Northern Ireland Cancer Registry (NICR). Incidence data is available annually from 1993 to 2021, however in order to provide stable and robust figures the majority of information presented in this report is based upon the average number of cases diagnosed in the last five years.

<u>Methodology</u>

The methodology used in producing the statistics presented in this report, including details of data sources, classifications and coding are available in the accompanying methodology report available at: www.qub.ac.uk/research-centres/nicr/CancerInformation/official-statistics.

Official statistics

The incidence, prevalence and survival statistics in this publication are designated as official statistics signifying that they comply with the Code of Practice for Official Statistics. Further information on this code is available at code.statisticsauthority.gov.uk.

Cancer mortality data

The NI Statistics and Research Agency (NISRA) is the official statistics provider of cancer mortality data in Northern Ireland. However, for completeness, data on cancer mortality is also provided in this report. While analysis is conducted by NICR staff, the original data is provided courtesy of the General Register Office (NI) via the Department of Health.

Reuse of information

The information in this report (and any supplementary material) is available for reuse free of charge and without the need to contact NICR. However, we request that NICR is acknowledged as the source of any reused information. The following reference is recommended:

Northern Ireland Cancer Registry 2024. Uterine cancer: 1993-2021. Available at: www.qub.ac.uk/researchcentres/nicr

Further information

Further information is available at: www.qub.ac.uk/research-centres/nicr **Phone:** +44 (0)28 9097 6028 **e-mail:** nicr@qub.ac.uk

Acknowledgements

The Northern Ireland Cancer Registry (NICR) uses data provided by patients and collected by the health service as part of their care and support.

NICR is funded by the Public Health Agency and is based in Queen's University, Belfast.





INCIDENCE

- There were 1,317 cases of uterine cancer diagnosed during 2017-2021 in Northern Ireland. On average this was 263 cases per year.
- The most common diagnosis month during 2017-2021 was June with 27 cases per year.

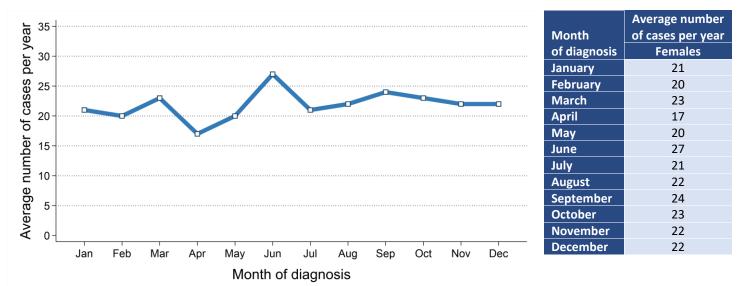
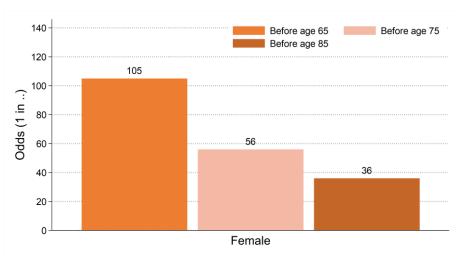


Figure 1: Average number of cases of uterine cancer per year in 2017-2021 by month of diagnosis

- Uterine cancer made up 5.3% of all female cancer cases (excluding non-melanoma skin cancer).
- The uterine cancer incidence rate was 27.5 cases per 100,000 females.
- The odds of developing uterine cancer before age 85 was 1 in 36.

Figure 2: Odds of developing uterine cancer in 2017-2021



INCIDENCE BY AGE

- The median age of females diagnosed with uterine cancer during 2017-2021 was 67 years.
- The risk of being diagnosed with uterine cancer varied by age, with 27.1% of women diagnosed with uterine cancer aged 75 and over at diagnosis.
- In contrast, 16.4% of women diagnosed with uterine cancer were aged 0 to 54 at diagnosis.

Figure 3: Average number of cases of uterine cancer diagnosed per year in 2017-2021 by age at diagnosis

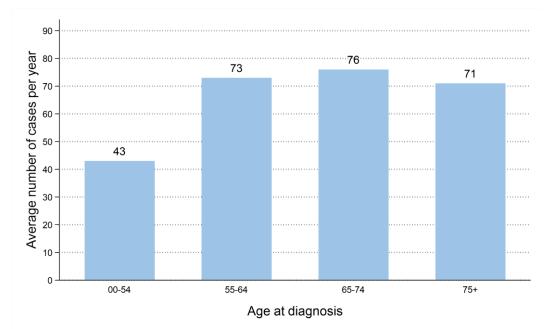
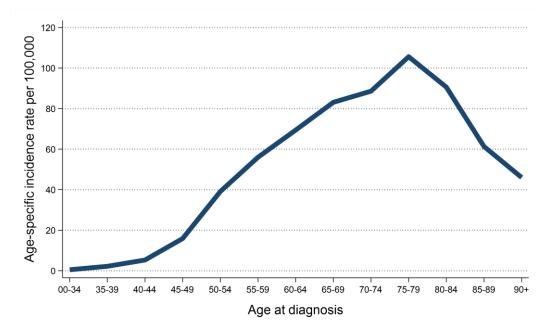


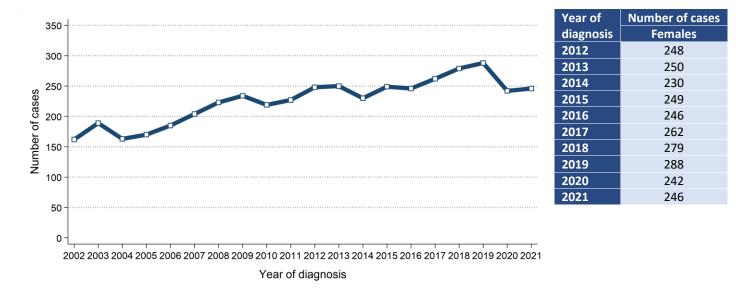
Figure 4: Age-specific incidence rates of uterine cancer in 2017-2021



INCIDENCE TRENDS

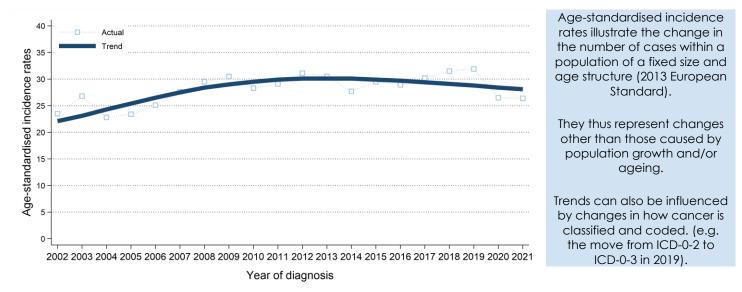
- The number of cases of uterine cancer among females increased between 2012-2016 and 2017-2021 by 7.7% from 1,223 cases (245 cases per year) to 1,317 cases (263 cases per year).





Female age-standardised uterine cancer incidence rates decreased between 2012-2016 and 2017-2021 by
0.7% from 29.5 to 29.3 cases per 100,000 females. This change was not statistically significant.





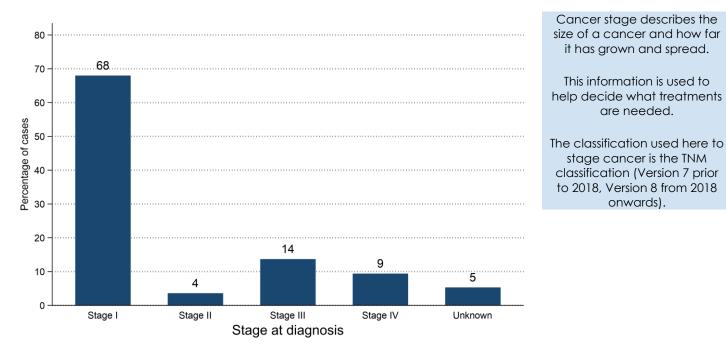
INCIDENCE BY STAGE AT DIAGNOSIS

- During 2017-2021 94.7% of uterine cancer cases had a stage assigned.
- 68.0% of uterine cancer cases were diagnosed at Stage I. (71.8% of staged cases)
- 9.4% of uterine cancer cases were diagnosed at Stage IV. (9.9% of staged cases)

Table 1: Number of cases of uterine cancer diagnosed in 2017-2021 by stage at diagnosis

	Female		
Stage at diagnosis	Total cases in period	Average cases per year	
All stages	1,317	263	
Stage I	895	179	
Stage II	48	10	
Stage III	180	36	
Stage IV	124	25	
Unknown	70	14	

Figure 7: Proportion of cases of uterine cancer diagnosed in 2017-2021 by stage at diagnosis



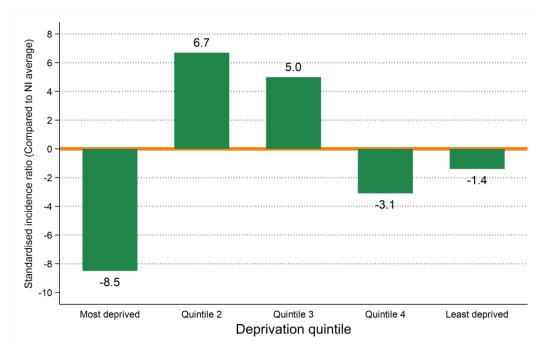
INCIDENCE BY DEPRIVATION

- The number of cases of uterine cancer diagnosed during 2017-2021 varied in each deprivation quintile due to variations in population size and age.
- After accounting for these factors, incidence rates:
- in the most socio-economically deprived areas did not vary significantly from the NI average.
- in the least socio-economically deprived areas did not vary significantly from the NI average.

Table 2: Number of cases of uterine cancer diagnosed in 2017-2021 by deprivation quintile

	Female		
Deprivation quintile	Total cases in period	Average cases per year	
Northern Ireland	1,317	263	
Most deprived	202	40	
Quintile 2	281	56	
Quintile 3	287	57	
Quintile 4	270	54	
Least deprived	277	55	
Unknown	0	0	

Figure 8: Standardised incidence ratio comparing deprivation quintile to Northern Ireland for uterine cancer diagnosed in 2017-2021



Standardised incidence ratios compare incidence rates in each deprivation quintile with the Northern Ireland incidence rate.

A value above 0 means that incidence rates in that deprivation quintile are greater than the NI average.

This measure takes account of population size and age structure. Differences are thus not a result of these factors.

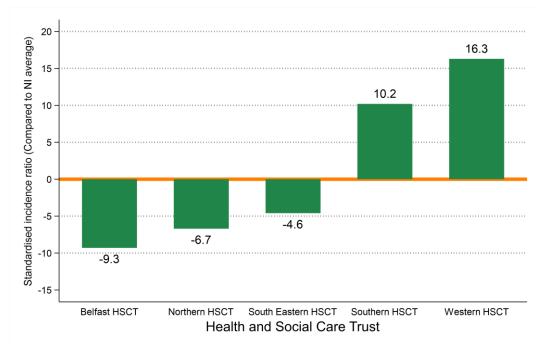
INCIDENCE BY HEALTH AND SOCIAL CARE TRUST

- The number of cases of uterine cancer diagnosed during 2017-2021 varied in each Health and Social Care Trust due to variations in population size and age.
- After accounting for these factors, incidence rates:
- in Belfast HSCT did not vary significantly from the NI average.
- in Northern HSCT did not vary significantly from the NI average.
- in South Eastern HSCT did not vary significantly from the NI average.
- in Southern HSCT did not vary significantly from the NI average.
- in Western HSCT were 16.3% higher than the NI average.

Table 3: Number of cases of uterine cancer diagnosed in 2017-2021 by Health and Social Care Trust

	Female		
Health and Social Care Trust	Total cases in period	Average cases per year	
Northern Ireland	1,317	263	
Belfast HSCT	219	44	
Northern HSCT	325	65	
South Eastern HSCT	265	53	
Southern HSCT	271	54	
Western HSCT	237	47	
Unknown	0	0	

Figure 9: Standardised incidence ratio comparing Health and Social Care Trust to Northern Ireland for uterine cancer diagnosed in 2017-2021



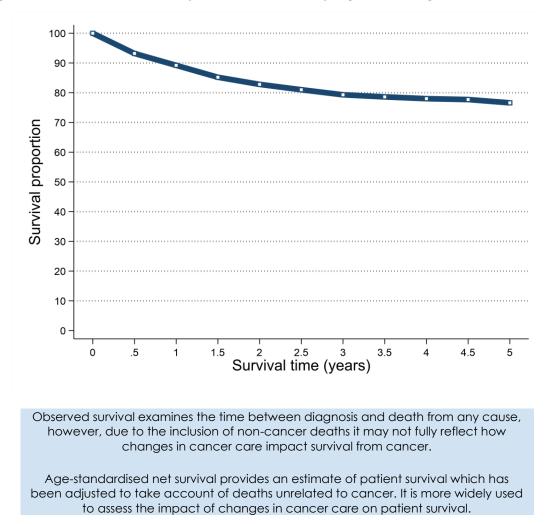
SURVIVAL

- 89.0% of patients were alive one year and 72.8% were alive five years from a uterine cancer diagnosis in 2012-2016. (observed survival)
- Age-standardised net survival (ASNS), which removes the effect of deaths from causes unrelated to cancer, was 89.2% one year and 76.6% five years from a uterine cancer diagnosis in 2012-2016.

Table 4: Survival from uterine cancer for patients diagnosed in 2012-2016

	Female		
Time since diagnosis	Observed survival	Age-standardised net survival	
6 months	93.3%	93.2%	
One year	89.0%	89.2%	
Two years	82.1%	82.8%	
Five years	72.8%	76.6%	

Figure 10: Age-standardised net survival from uterine cancer for patients diagnosed in 2012-2016



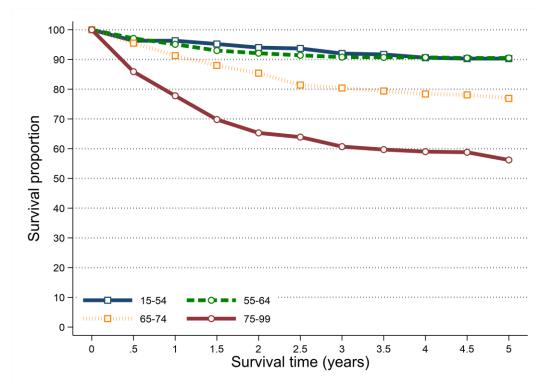
SURVIVAL BY AGE

- Survival from uterine cancer among patients diagnosed during 2012-2016 was related to age with better five-year survival among younger age groups.
- Five-year net survival ranged from 90.5% among patients aged 55 to 64 at diagnosis to 56.2% among those aged 75 to 99.

Age group	Fer	Female		
	One-year	Five-years		
15 to 54	96.3%	90.3%		
55 to 64	95.1%	90.5%		
65 to 74	91.3%	76.9%		
75 to 99	77.8%	56.2%		

Table 5: Net survival from uterine cancer for patients diagnosed in 2012-2016 by age at diagnosis

Figure 11: Net survival from uterine cancer for patients diagnosed in 2012-2016 by age at diagnosis

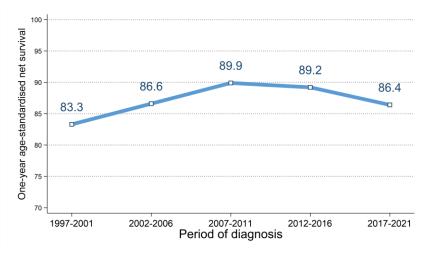


SURVIVAL TRENDS

ONE-YEAR NET SURVIVAL

- Between 2012-2016 and 2017-2021 there was no significant change in one-year survival (ASNS) from uterine cancer among females.
- Compared to 1997-2001 one-year survival (ASNS) from uterine cancer among females in 2017-2021 did not change significantly.

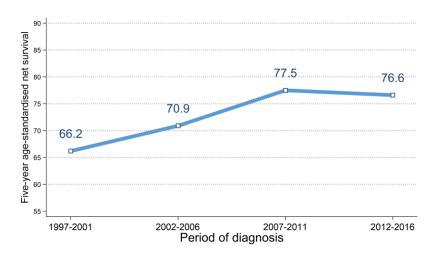
Figure 12: Trends in one-year age-standardised net survival from uterine cancer in 1997-2021



FIVE-YEAR NET SURVIVAL

- Between 2007-2011 and 2012-2016 there was no significant change in five-year survival (ASNS) from uterine cancer among females.
- Compared to 1997-2001 five-year survival (ASNS) from uterine cancer among females in 2012-2016 increased significantly from 66.2% to 76.6%.

Figure 13: Trends in five-year age-standardised net survival from uterine cancer in 1997-2016



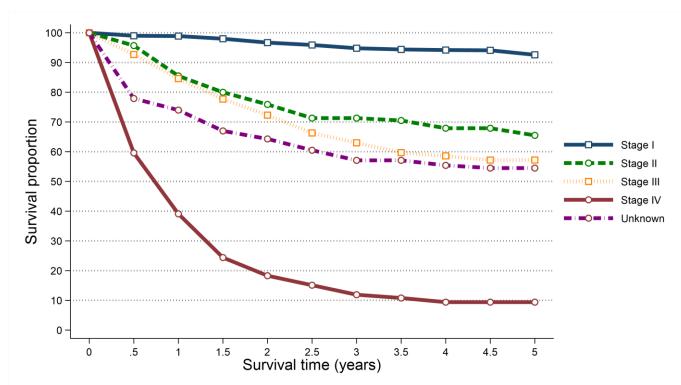
SURVIVAL BY STAGE

- Survival from uterine cancer among patients diagnosed during 2012-2016 was strongly related to stage with better five-year survival among those diagnosed at earlier stages.
- Five-year survival (ASNS) ranged from 92.6% among patients diagnosed at Stage I to 9.4% among those diagnosed at Stage IV.

Table 6: Age-standardised net survival from uterine cancer for patients diagnosed in 2012-2016 by stage at diagnosis

Stage at diagnosis	Female		
	One-year	Five-years	
Stage I	98.9%	92.6%	
Stage II	85.5%	65.5%	
Stage III	84.6%	57.2%	
Stage IV	39.1%	9.4%	
Unknown	74.0%	54.5%	

Figure 14: Age-standardised net survival from uterine cancer for patients diagnosed in 2012-2016 by stage at diagnosis



PREVALENCE

- At the end of 2021, there were 2,980 females living with uterine cancer who had been diagnosed with the disease during 1997-2021.
- Of these 7.6% had been diagnosed in the previous year (one-year prevalence) and 60.9% in the previous 10 years (ten-year prevalence).
- 37.4% of uterine cancer survivors were aged 75 and over at the end of 2021.

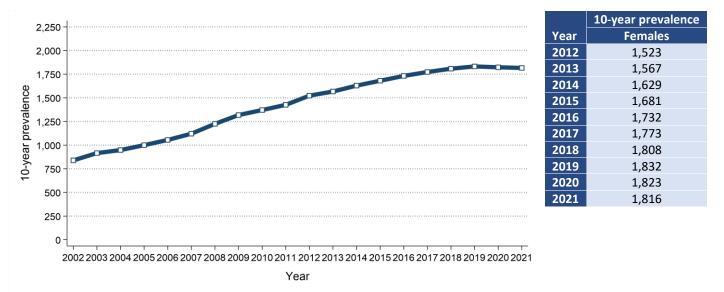
Table 7: 25-year prevalence of uterine cancer by age at end of 2021

Age at end of	25-year	Time since diagnosis			
2021 preval	prevalence	0 to 1 year	1 to 5 years	5 to 10 years	10 to 25 years
All ages	2,980	226	770	820	1,164
0 to 74	1,866	173	570	559	564
75 and over	1,114	53	200	261	600

PREVALENCE TRENDS

- 10-year prevalence of uterine cancer among females increased between 2016 and 2021 by 4.8% from 1,732 survivors to 1,816 survivors.

Figure 15: Trends in 10-year prevalence of uterine cancer in 2002-2021



MORTALITY

- There were 367 deaths from uterine cancer during 2017-2021 in Northern Ireland. On average this was 73 deaths per year.
- Uterine cancer deaths made up 3.4% of all female cancer deaths.
- The median age of females who died from uterine cancer during 2017-2021 was 75 years.
- The risk of dying from uterine cancer varied by age, with 51.2% of women who died from uterine cancer aged 75 and over at death.
- In contrast, 6.0% of women who died from uterine cancer were aged 0 to 54 at death.

Figure 16: Average number of deaths from uterine cancer per year in 2017-2021 by age at death

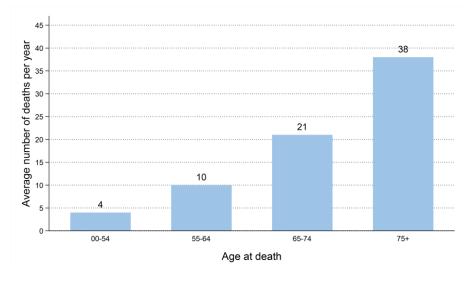
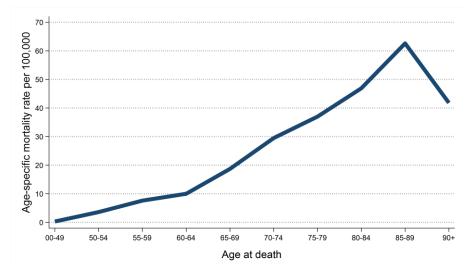


Figure 17: Age-specific mortality rates of uterine cancer in 2017-2021



MORTALITY TRENDS

- The number of deaths from uterine cancer among females increased between 2012-2016 and 2017-2021 by 37.5% from 267 deaths (53 deaths per year) to 367 deaths (73 deaths per year).

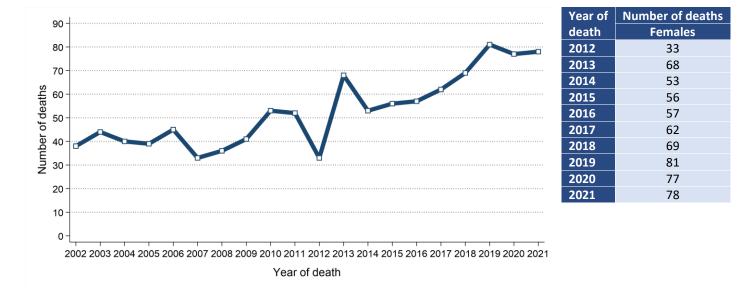
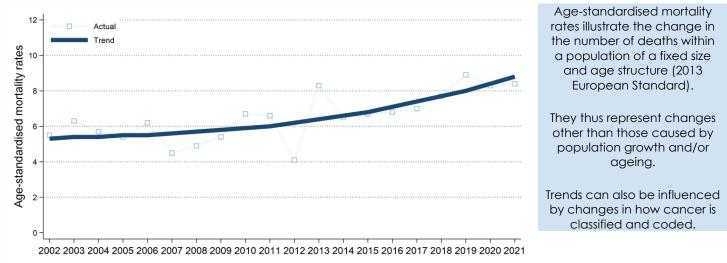


Figure 18: Trends in the number of deaths from uterine cancer from 2002 to 2021

- Female age-standardised uterine cancer mortality rates increased between 2012-2016 and 2017-2021 by 24.6% from 6.5 to 8.1 deaths per 100,000 females. This change was not statistically significant.

Figure 19: Trends in mortality rates of uterine cancer from 2002 to 2021



Year of death

BACKGROUND NOTES

Cancer classification: Classification of tumour sites is carried out using ICD10 codes. For a listing and explanation of ICD10 codes see: World Health Organisation at http://apps.who.int/classifications/icd10/browse/2010/en#/II

Population data: Population data for Northern Ireland, and smaller geographic areas, are extracted from the NI mid-year population estimates available from the NI Statistics and Research Agency (available at www.nisra.gov.uk).

Geographic areas: Geographic areas are assigned based on a patient's postcode of usual residence at diagnosis using the Jan 2023 Central Postcode Directory (CPD) produced by the NI Statistics and Research Agency (available at www.nisra.gov.uk).

Deprivation quintiles: Super output areas (SOA) are assigned to each patient based on their postcode of usual residence at diagnosis. Using the SOA each patient is assigned a socio-economic deprivation quintile based on the 2017 Multiple Deprivation Measure. The 2017 Multiple Deprivation Measure is available from the NI Statistics and Research Agency (available at www.nisra.gov.uk).

Crude incidence/mortality rate: The number of cases/deaths per 100,000 person years in the population. Person years are the sum of the population over the number of years included.

Age-standardised incidence/mortality rates per 100,000 person years are estimates of the incidence/mortality rate if that population had a standard age structure. Throughout this report the 2013 European Standard Population has been used. Standardising to a common Standard Population allows comparisons of incidence/mortality rates to be made between different time periods and geographic areas while removing the effects of population change and ageing.

Standardised Incidence/Mortality Ratio (SIR/SMR) is the ratio of the number of cases/deaths observed in a population to the expected number of cases/deaths, based upon the age-specific rates in a reference population. This statistic is often used to compare incidence/mortality rates for geographic areas (e.g. Trusts) to the national incidence/mortality rates (i.e. Northern Ireland). An SIR/SMR of 100 indicates there is no difference between the geographic area and the national average.

Confidence intervals measure the precision of a statistic (e.g. uterine cancer incidence rate). Typically, when numbers are low, precision is poorer and confidence intervals will be wider. As a general rule, when comparing statistics (e.g. uterine cancer incidence rate in year 2012 vs year 2013), if the confidence interval around one statistic overlaps with the interval around another, it is unlikely that there is any real difference between the two. If there is no overlap, the difference is considered to be statistically significant.

Lifetime risk is estimated as the cumulative risk of getting cancer up to age 75/85, calculated directly from the age-specific incidence rates. The odds of developing the disease before age 75/85 is the inverse of the cumulative risk.

Prevalence is the number of cancer patients who are alive in the population on a specific date (31st December 2021 in this report). Since data from the NI Cancer Registry are only available since 1993, prevalence only refers to a fixed term (10 and 25 years in this report). There may be members of the population living with a diagnosis of cancer for more than 25 years.

Patient survival is evaluated using two measures. Observed survival examines the time between diagnosis and death from any cause. It thus represents what cancer patients experience, however, due to the inclusion of non-cancer deaths (e.g. heart disease), it may not reflect how changes in cancer care impact survival from cancer. Thus age-standardised net survival is also examined. This measure provides an estimate of patient survival which has been adjusted to take account of deaths unrelated to cancer. It also assumes a standard age distribution thereby removing the impact of changes in the age distribution of cancer patients on changes in survival over time. While this measure is hypothetical, as it assumes patients can only die from cancer related factors, it is a better indicator of the impact of changes in cancer care on patient survival.