

2021

Cancer incidence, mortality, survival and prevalence in Norway

Special issue:

Cancer survival in Norway 1965–2021: Extending standard reporting to improve communication of survival statistics

Editor-in-chief:

Inger Kristin Larsen

Editorial team:

IK Larsen, B Møller, TB Johannesen, TE Robsahm, TK Grimsrud, S Larønningen, AH Seglem, JJ Hestad, J Waaland, G Ursin

Data management and analyses:

B Aagnes, S Aaserud, S Breivik, MB Jerm, Y Nilssen

Coding staff:

TV Antonsen, I Aune, HH Brenn, RW Bråten, ØL Carlsen, C Cin, AH Dahlen, L Enerstvedt, I Forberg, SEO Frøland, ME Gismarvik, K Grape, MN Haneborg, S Hansen, I Hatle, IH Heien, G Kjølberg, KO Knudsen, T Lane, IM Larsson, TL Lindvik, W Melbye, KL Nilsen, T Nygård, S Nymoen, SS Olsen, AV Owren, J Pavlova, M Silva, T Sørstrøm, L Thyssell, A Tysvær, K Østby

Recommended reference:

Cancer Registry of Norway. Cancer in Norway 2021 - Cancer incidence, mortality, survival and prevalence in Norway. Oslo: Cancer Registry of Norway, 2022.

ISSN: 0806-3621

General requests for cancer information or possible research collaboration are welcome, and should be sent to datautlevering@kreftregisteret.no. The application form on https://helsedata.no/ should be used to request for data from the Cancer Registry of Norway.

Cancer incidence, mortality, survival and prevalence in Norway

Foreword

In the second year of the COVID-19 pandemic, cancer diagnostic activity seems to have largely returned to a pre-pandemic level. In the first year, 2020, we observed a slight decline in cases of some cancer types, there was no such decline or deficit in 2021.

When looking at trends in cancer occurrence in Norway, we examine both long- and short-term changes, as well as changes in rates and absolute numbers.

Comparing of five-year rates over time enables us to see the larger picture in cancer rates rather than year-toyear fluctuations. Overall age-standardised rates in Norway have been rather stable over the past decade. From the last five-year period (2012-2016) to the current one (2017-2021), there was a slight decline among men, and slight increase among women. There is, however, a large variation in how rates have changed for individual cancer sites. Among the most common cancers, the rate of skin, non-melanoma has increased the most. The largest decline in rates has been for prostate cancer. While it is comforting that age-standardised rates remain stable over time, this is of course only part of the picture. The number of cancer cases has increased by 20% over the past decade. This means that 6000 more patients are diagnosed annually now compared to in 2011. Perhaps we need to focus more on this absolute number since it reflects the increased workload that our hospitals, specialists and general practitioners must deal with. While it is important to tell the public that cancer rates are stable, we need to acknowledge the increased pressure on primary and secondary health care services with the growing absolute numbers. More and more diagnostic activity and treatments are offered on an out-patient basis, reducing the need for hospital stays. The downside of this, however is that this simply moves the bottlenecks to out-patient clinics and primary care services.

The number of cases is not going to decline soon. The post-war baby-boomers (born in 1946–1964) are in the middle of "cancer age", and there are many people in this generation in Norway. Currently 24% of inhabitants in Norway are aged 60 years or older. We hope those who plan health care services read our reports.

The number of cancer survivors have increased with one third (100 000 cases) from 2011 to 2021. Behind this picture is our ability to diagnose more cancer cases precisely and at an early stage, and major advanced in targeted treatment. Almost 40 000 more patients are alive

after a prostate or breast cancer diagnosis than ten years ago, and 36 000 more are alive after a colorectal cancer, melanoma or lymphoma/hematopoietic cancer. This means that there are more people in the population at a higher risk of getting a second cancer, having experienced cancer treatment once before, possibly making a new treatment more complicated.

Modern diagnostic methods find more metastasis than we did previously. This makes it difficult to assess changes in stage-specific cancer rates over time. Cancers that were previously considered to be localised or regional, might have had small metastases that today would have been detected, leading to upstaging of the disease. This may explain why rates of cancer with distant metastasis have not declined that much even though more cancers are detected early.

It is difficult to compare cancer numbers from one year to the next, so our overall trend descriptions rely on longer timeframes, but the changes during the COVID-19 pandemic warrants some comments. From 2019 to 2020 we observed a decline in breast, cervical, uterine, ovarian and lung cancer (women). Part of this was due to the reduced number of women undergoing breast and cervical cancer screening, but part of the decline (uterine, ovarian and lung cancer) was not clearly understood. We speculated last year that some late-stage cancers simply never were detected among elderly patients dying of COVID-19. At the same time, we hoped that the decline in lung cancer also in women was the start of a real decline. Sadly, that was not the case. In the numbers for 2021, we see increases for breast, ovarian and lung cancer.

In this year's special issue, we are proud to show new ways of presenting survival statistics. We hope this will improve our understanding and be useful in communicating cancer survival to patients and clinicians. A large thanks to the special issue editorial team for their contribution. Thank you also to everyone who reports cancer cases to the Cancer Registry, and to all of those involved in coding cancer, those who help decipher cases that are difficult to code, those who handle the databases or analyses. Finally thank you to the editorial team. Hopefully this report will form the basis for many useful discussions.

Oslo, June 2022 Giske Ursin, MD, PhD Director

Contents

1	Definitions	1
2	Summary	2
3	Data and data sources	4
	3.1 The population of Norway	4
	3.2 The Cancer Registry of Norway	5
	3.3 Sources of information	7
	3.4 Incidence and mortality data	9
	3.5 Data quality	12
	3.6 Completeness and timeliness	12
4	Statistical methods	16
	4.1 Incidence and mortality	16
	4.2 Prevalence	18
	4.3 Survival	18
5	Incidence	20
	5.1 New cancer cases	20
	5.2 Incidence by age	22
	5.3 Male to female ratios	26
	5.4 Incidence trends	27
	5.5 Cumulative risk	29
	5.6 Incidence by county of residence	29
	5.7 Incidence tables	29
6	Prevalence	80
7	Mortality	83
8	Survival	86
9	Trends in incidence, mortality and survival, Norway 1965–2021	101

List of Figures

3.1	Sources	of information and the process of cancer registration at the Cancer Registry of Norway							
4.1	Comparison of population weights								
5.1	Percentage distribution of cancer incidence by age, 2017–2021								
5.2		t frequent types of cancer by age and sex, 2017–2021							
	A	All ages							
	В	0–14 years							
	C	15–24 years							
	D	25–49 years							
	E	50–69 years							
	F	70+ years							
5.3	_	nds in age-standardised (Norwegian standard) incidence rates for selected cancers, 1953–2021 27							
5.4		ive risk of developing cancer (%) by the age of 80 for selected cancers, 2017–2021							
7 1	A a a stan	dandicad (Navyvorian standard) montality nates non 100 000 monean years for calcutad company							
7.1	_	dardised (Norwegian standard) mortality rates per 100 000 person-years for selected cancers,							
	2020	· · · · · · · · · · · · · · · · · · ·							
8.1	Relative	survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021							
	A	All sites (ICD-10 C00–96)							
	В	Mouth, pharynx (ICD-10 C00–14)							
	С	Oesophagus (ICD-10 C15)							
	D	Stomach (ICD-10 C16)							
	E	Colon (ICD-10 C18)							
	F	Rectum, rectosigmoid (ICD-10 C19–20)							
	G	Liver (ICD-10 C22)							
	Н	Gallbladder, bile ducts (ICD-10 C23–24)							
	I	Pancreas (ICD-10 C25)							
	J	Lung, trachea (ICD-10 C33-34)							
	K	Melanoma of the skin (ICD-10 C43)							
	L	Breast (ICD-10 C50)							
	M	Cervix uteri (ICD-10 C53)							
	N	Corpus uteri (ICD-10 C54)							
	O	Ovary etc. (ICD-10 C56, C57.0-4, C48.2)							
	P	Prostate (ICD-10 C61)							
	Q	Testis (ICD-10 C62)							
	R	Kidney (excl. renal pelvis) (ICD-10 C64)							
	S	Urinary tract (ICD-10 C65–68)							
	T	Central nervous system (ICD-10 C70–72)							
	U	Thyroid gland (ICD-10 C73)							
	V	Hodgkin lymphoma (ICD-10 C81)							
	W	Non-Hodgkin lymphoma (ICD-10 C82–86, C96)							
	X	Leukaemia (ICD-10 C91–95)							
0.1	T 1 ·								
9.1		n incidence and mortality rates and 5-year relative survival proportions 104							
	A	All sites (ICD-10 C00–96)							
	В	Mouth, pharynx (ICD-10 C00–14)							
	С	Oesophagus (ICD-10 C15)							
	D	Stomach (ICD-10 C16)							

E	Colon (ICD-10 C18)	05
F	Rectum, rectosigmoid (ICD-10 C19–20)	05
G	Liver (ICD-10 C22)	06
Н	Gallbladder, bile ducts (ICD-10 C23–24)	06
I	Pancreas (ICD-10 C25)	06
J	Lung, trachea (ICD-10 C33–34)	07
K	Melanoma of the skin (ICD-10 C43)	07
L	Kidney (excl. renal pelvis) (ICD-10 C64)	07
M	Breast (ICD-10 C50)	80
N	Cervix uteri (ICD-10 C53)	80
O	Prostate (ICD-10 C61)	80
P	Corpus uteri (ICD-10 C54)	80
Q	Testis (ICD-10 C62)	80
R	Ovary etc. (ICD-10 C56, C57.0-4, C48.2)	80
S	Urinary tract (ICD-10 C65–68)	09
T	Central nervous system (ICD-10 C70–72)	09
U	Thyroid gland (ICD-10 C73)	09
V	Hodgkin lymphoma (ICD-10 C81)	10
W	Non-Hodgkin lymphoma (ICD-10 C82–86, C96)	10
X	Leukaemia (ICD-10 C91–95)	10

List of Tables

2.1	Summary of cancer statistics for selected cancers	3
3.1	Norwegian mid-year population 2021 by five-year age group and sex	4
3.2	Number of first generation immigrants by country per 1 January 2022	5
3.3	Status of the clinical registries, June 2022	7
3.4	Description of ICD-10 codes	10
3.5	Percentage distribution of morphologically verified (MV) and death certificate only (DCO) cases by	
	primary site, 2017–2021	13
3.6	Completeness by primary site, 2017–2021	14
3.7	Registered cancer cases in Norway 2020, as obtained by 30 August 2021 and 1 May 2022	15
5.1	Number and age-standardised rates of new cases by primary site and sex, 2021	21
5.2		23
5.3	Sex ratio (male:female) of age-adjusted rates (Norwegian standard) in 1987–1991 and 2017–2021 for selected cancers, sorted in descending order in last period	26
5.4	Cumulative risk of developing cancer (%) by age of 80 by primary site and sex, 2017–2021	31
5.5	Number of new cases by primary site and year, 2012–2021, males	32
5.6	Number of new cases by primary site and year, 2012–2021, females	33
5.7	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and	
	year, 2012–2021, males	34
5.8	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and	
	year, 2012–2021, females	35
5.9	Average annual number of new cases by primary site and five-year age group, 2017–2021, males	36
5.10		38
5.11	Age-specific incidence rates per 100 000 person-years by primary site and five-year age group, 2017–2021, males	40
5 12	males Age-specific incidence rates per 100 000 person-years by primary site and five-year age group, 2017–2021,	40
3.12	females	42
5 13	Average annual number of new cases by primary site and five-year period, 1962–2021, males	44
	Average annual number of new cases by primary site and five-year period, 1962–2021, finales Average annual number of new cases by primary site and five-year period, 1962–2021, females	46
	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and	10
0.10		48
5.16	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and	
	five-year period, 1962–2021, females	50
5.17	Average annual number of new cases by primary site and county, 2017–2021, males	52
	Average annual number of new cases by primary site and county, 2017–2021, females	54
5.19	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and	
	county, 2017–2021, males	56
5.20	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and	
	county, 2017–2021, females	58
5.21	Average annual number of new cases for selected cancers by stage and period of diagnosis, 1962–2021,	
		60
5.22	Average annual number of new cases for selected cancers by stage and period of diagnosis, 1962–2021,	
		64
5.23	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years for selected cancers	
F 2.4		68
5.24	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years for selected cancers	72
	by stage and period of diagnosis, 1962–2021, females	72

5.25	Average annual number of new cases by primary site and origin, 2017–2021, males	76
5.26	Average annual number of new cases by primary site and origin, 2017–2021, females	77
	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and origin, 2017–2021, males	78
5.28	Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and origin, 2017–2021, females	79
6.1	Prevalence of cancers 31 December 2011 and 31 December 2021, both sexes	81
6.2	Prevalence of patients diagnosed with distant metastases during lifetime, by health region, both sexes	82
7.1	Number of cancer deaths by primary site and sex, 2020	85
8.1	Five-year relative survival by primary site, stage and period of diagnosis, 1982–2021, males	88
8.2	Five-year relative survival by primary site, stage and period of diagnosis, 1982–2021, females	90
8.3	1-, 5-, 10-, and 15-year relative survival (%) with 95% confidence interval by primary site and sex. Period	
	approach, 2017–2021	92

Chapter 1 Definitions

Incidence The number of new cases of a disease in a defined population within a specific period of time.

Incidence rate The number of new cases that arise in a population (incidence) divided by the number of people who are at risk of getting cancer in the same period. The rate is expressed per 100 000 person-years. Person-years is a metric that combines persons and time (in years) as the denominator in rates.

Crude rate Unadjusted rates, often estimated for the entire population, with no standardisation by age.

Age-specific rate A rate calculated within an age stratum, often a five-year interval.

Age-standardisation A procedure for adjusting rates, e.g. incidence rates, designed to minimize the disturbing effects of differences in age composition when comparing rates for different populations (observed by geographical residence or over different time periods). The adjusted rates are referred to as age-standardised (or age-adjusted) rates. For this report, we use a standard chosen to be the Norwegian mid-year population in 2014 (referred to in the text as Norwegian standard).

Prevalence Prevalence is the number or proportion of a population that has the disease at a given point in

time. In this report we use lifetime cancer prevalence that can be defined as the number of living individuals having ever been diagnosed with cancer.

Relative survival The observed survival after a given period of time in a patient group, divided by the expected survival of a comparable group in the general population, comparable with respect to key factors affecting survival such as age, sex and calendar year of observation. Relative survival is thus determined by the mortality experienced by the patients regardless of whether an excess mortality (or even deficiency) may be attributable or linked to the disease under investigation. A key advantage is that it does not require information about cause of death.

Conditional relative survival The probability of surviving an additional number of years given that the person has already survived a certain number of years. As time from diagnosis lengthens, this statistic becomes more informative to survivors than the conventional relative survival estimate. A five-year conditional relative survival that reaches close to 100% some number of years after diagnosis indicates that from that point, there is little or no excess mortality in the patient group.

Most definitions are based on Last & al, 2001^[1].

Chapter 2 Summary

The aim of the annual publication of Cancer in Norway (CiN) is to provide detailed cancer statistics. This publication should help health professionals, policy-makers and researchers to identify and make decisions about areas that need more attention and investigation. This publication may also be valuable for the media, educators and members of the public with an interest in cancer. Due to random variation in incidence rates from one year to another, cancer trends should be interpreted by examining the rates over the past several years. Furthermore, the numbers for 2021 might be slightly underreported due to delayed notification of cancer cases.

The report is available online at:

https://www.kreftregisteret.no/

Incidence data are available online at:

https://www.kreftregisteret.no/ Registrene/data-og-statistikk/ statistikkbank/

Incidence

A total of 36 998 new cancer cases were reported in 2021: 53.2% were among men and 46.8% were among women. The five most frequent types of cancer in men in 2017–2021 were prostate, lung, colon, skin (non-melanoma) and urinary tract. The five most frequent types of cancer in women in 2017–2021 were breast, lung, colon, skin (non-melanoma) and melanoma of the skin.

The incidence rate for all sites combined has decreased by 3.8% in men and increased by 2.1% in women when comparing the last five-year period (2017–2021) with the previous one (2012–2016) (Table 2.1). There has been a sharp increase in the incidence of skin cancer over the last 20 years, and rates are significantly higher in the last five-year period compared to the previous one for both genders. The incidence of thyriodea cancer also increase sharply. On the positive side, we observe a decline in the incidence rates for prostate, lung (among men only) and colorectal cancer. In addition, the worrying increase in cervical cancer, as we reported in the previous issue, has flattened out.

After the publication of CiN, we usually receive about 1-2% additional cases that should have been included

¹We have not received complete data for 2021

in the last year incidence numbers. For cervical cancer, this number is usually higher - about 8% - and this must be taken into account when interpreting the incidence numbers.

The immigrant population in Norway consists of persons from more than 200 countries. First-generation immigrants comprise 15% of the total population, and around 8% of all cancer cases diagnosed in 2021 occured among immigrants.

Cancer incidence and COVID-19

In last year's report (CiN 2020) we could not see any convincing decrease in the incidence for the vast majority of cancers from 2019 to 2020, but there were some exceptions: The incidence rate of breast and cervical cancer decreased by 10% and 15%, respectively. There were also fewer uterine and ovarian cancers diagnosed in 2020, and the incidence rate of lung cancer in women decreased by 6%. In this year's report, we observe that the decline in incidence for breast, ovarian and lung cancer among women in 2020 is followed by increasing rates in 2021. Such an increase is not observed for cervical cancer. However, as decribed above, we assume that the numbers for cervical cancer in 2021 is incomplete and is thus difficult to interpret.

Prevalence

At the end of 2021 a total of 316 145 persons were alive after having had at least one cancer diagnosis at some point in time.

Mortality

There were 10 981 deaths due to cancer in 2020¹. Cancer of the lung accounts for 20% of the cancer mortality, followed by cancer in the colon (11%), prostate (9%), pancreas (7%) and female breast (5%). Together these cancer sites account for 51% of the cancer mortality.

Survival

There has been a slight increase in the five-year relative survival for most cancers when comparing the five-

year period (2017–2021) with the previous one. For the most common cancers, the largest increase in survival is observed for lung cancer.

Prostate cancer: Increased from 95.1% to 95.5%. **Breast cancer:** Increased from 91.4% to 92.3%.

Lung cancer (M): Increased from 19.3% to 25.7%. Lung cancer (F): Increased from 26.2% to 32.8%.

Colon cancer (M): Increased from 65.5% to 69.7%. Colon cancer (F): Increased from 69.8% to 71.0%.

Rectum cancer (M): Increased from 71.1% to 71.9%. **Rectum cancer (F):** Increased from 71.3% to 73.5%.

Table 2.1: Summary of cancer statistics for selected cancers

	Site	_	Incidence	Incidence rate, 2017–21 ²	Change in rate (%) ³	Mortality rate, 2020 ⁴	Five-year relative survival (%)	
ICD-10		Sex	cases, 2021 ¹				2012-16	2017-21
C00-96	All sites	М	19 684	712.6	-3.8	230.4	74.4	77.1
C00-96	All Siles	F	17 3 1 4	560.0	2.1	160.6	73.6	76.3
C18	Colon	M	1517	56.6	-4.9	21.2	65.5	69.7
CIO	Colon	F	1 687	52.5	-2.5	19.4	69.8	71.0
C19-20	Rectum, rectosigmoid	M	808	30.1	-10.6	9.0	71.1	71.9
(1) 20	kectuiii, iectosigiiioid	F	538	18.3	-9.6	4.2	71.3	73.5
C33-34	Lung, trachea	M	1786	63.7	-8.5	42.5	19.3	25.7
(33-34	Luliy, tracilea	F	1713	54.5	3.4	31.9	26.2	32.8
C43	Melanoma of the skin	M	1 2 7 9	44.9	10.3	6.8	86.9	90.3
(43	Meianoma of the skin	F	1164	39.7	8.5	3.8	93.5	95.2
C44	Skin, non-melanoma	M	1669	59.7	28.4			
C44		F	1 428	39.1	31.6			
C50	Breast	F	3 991	130.1	5.2	19.4	91.4	92.3
C53	Cervix uteri	F	345	13.5	0.3	3.6	80.2	82.6
C54	Corpus uteri	F	774	26.5	-4.7	2.8	85.1	85.4
C56, C57.0-4, C48.2	Ovary etc.	F	531	17.7	-9.0	9.0	48.6	51.1
C61	Prostate	M	5 188	184.3	-12.3	41.7	95.1	95.5
C62	Testis	M	295	11.0	-7.4	0.2	99.0	98.8
C65-68	Urinary tract	M	1376	50.2	-2.0	9.9	78.6	80.3
(03-00	Urinary tract	F	495	15.0	-6.0	3.3	72.8	75.8
C70-72	Control porvous system	M	444	16.9	-16.9	8.2	61.3	57.0
C70-72	Central nervous system	F	544	19.3	-11.2	5.1	77.5	74.5
C73	Thyroid aland	M	163	5.1	14.0	0.6	90.0	90.0
(/)	Thyroid gland	F	364	12.3	19.2	0.6	93.3	95.1
C82-86, C96	Non Hadakin lymphama	M	604	21.7	-4.2	7.1	73.4	77.9
C02-80, C90	Non-Hodgkin lymphoma	F	486	15.5	-4.3	3.4	77.5	80.0
CO1 OF	Leukaemia	M	731	29.0	1.8	9.8	65.7	71.0
C91-95	Leukaeiiiia	F	600	20.3	3.2	5.6	73.9	75.7

¹ Number of new cases.

Changes from the previous version

- Staging of prostate cancer: The proportion of patients with prostate cancer with an unknown stage is lower than that reported in CiN 2020. This is due to a change in the assessment of stage determination where cases were previously registered as an unknown stage, but which have cT = 0-2 and cN = 0 or X and cM = 0 or X is now classified as localised stage.
- Staging of ovarian cancer: In CiN 2020 the proportion of patients with ovarian cancer with dis-

tant stage was unusual low. This was related to a change in our code and mapping practices. The routines have now been reviewed, which have led to a higher proportion of patients with distant metastasis.

• Adult granulosa cell tumour of ovary: This tumour has in this edition been considered malignant and for the period 1993–2021 we have recoded approximately 200 cases from benign to cancer hence increasing incidence compared to CiN 2020.

² Age-standardised (Norwegian std.) incidence rates per 100 000 person-years.

³ Percent change in age-standardised incidence rate from 2012–16 to 2017–21.

⁴ Age-standardised (Norwegian std.) mortality rates per 100 000 person-years. The mortality data is obtained from the Cause of Death Registry.

^{...} Not estimated in this report.

Chapter 3 Data and data sources

3.1 The population of Norway

By 1 January 2022 the total number of inhabitants in Norway was 5 425 270^[2]. Table 3.1 shows the age structure by sex for the Norwegian mid-year population in 2021. Back in 1953, when the cancer registration started in Norway, the number of inhabitants was 3 344 010. The population has increased by 62% from 1953 to 2022,

largely because of rising life expectancy and, more recently, due to increase in net immigration. The size of the population is expected to reach 6 million in 2050¹, and the elderly will represent an increasing proportion of the population of Norway over the next decades^[3]. Recent updates from Statistics Norway estimate that the proportion of persons 70 years or older will increase from 13%, in 2020, to 21% in 2050^[3].

Table 3.1: Norwegian mid-year population 2021 by five-year age group and sex

Age group	Males	Females	Total
0-4	144 694	136 806	281 500
5-9	158 606	150 518	309 124
10-14	168 500	159 666	328 166
15-19	162 636	154 837	317 473
20-24	174 193	162 473	336 666
25-29	188 405	178 375	366 780
30-34	195 530	187 980	383 510
35-39	185 504	175 110	360 614
40-44	179 139	169 409	348 548
45-49	188 727	179 638	368 365
50-54	192 453	183 833	376 286
55-59	175 578	167 648	343 226
60-64	156 943	153 516	310 459
65-69	140 072	141 789	281 861
70-74	127 456	131 092	258 548
75–79	94 619	104232	198 851
80-84	53 204	67 257	120 461
85+	42 040	75 850	117 890

The immigrant population

The immigrant population is heterogeneous with respect to length of stay, country of birth and reason for immigration. The first-generation immigrants consist of persons from more than 200 countries, and by 1 January 2022 they comprise 15.1% of the total population (819 356 persons). An additional 3.8% of the Norwegian population are second-generation immigrants (born in Norway with two foreign born parents). When classifying immigrants by country of birth, immigrants from Poland are the largest group with more than 100 000 per-

sons, followed by immigrants from Lithuania, Sweden and Syria $^{[4]}$.

In 2018, the Regulations (*Kreftregisterforskriften*) were revised, and the Cancer Registry of Norway (CRN) was allowed to collect and process data on country of birth. Data on cancer incidence among immigrants is now included in Cancer in Norway (CiN). As mentioned above, Norway has immigrants from more than 200 countries. The number of immigrants from most of these countries are small, and it is thus not possible to provide cancer statistics by country of birth. In this report, immigrants are therefore categorised in six groups, of which cancer

¹Considered the scenario of medium national growth

statistics are presented for five. We do not present data for immigrants from Latin America and the Carribean due to too few cases. Many immigrants in Norway are born in European countries, and Europe was divided in three categories: Nordic countries, Western Europe (including North America and Oceania as these countries have similar cancer patterns) and other European countries. Table 3.2 shows the countries included in each group. The countries are listed according to the number of immigrants and restricted to countries with more than 1000 immigrants.

Table 3.2: Number of first generation immigrants by country per 1 January 2022

Latin America an the Caribbean	Asia	Middle East and Africa	Other European Countries	Western Europe, North America and Oceania	Nordic countries	Number of first generation immigrants
			Poland			≥100 000
						50 000-99 999
			Lithuania			40 000-49 999
		Syria			Sweden	30 000-39 999
	Philippines	Somalia		Germany		20 000-29 999
	Pakistan	Eritrea				
	Thailand	Iraq				
	Afghanistan	Iran	Russia	United Kingdom	Denmark	10 000-19 999
	India		Romania			
	Vietnam		Bosnia and Herzegovina			
			Turkey			
			Latvia			
			Kosovo			
Chi	China	Ethiopia	Serbia	United States	Iceland	1 000-9 999
Bra	Sri Lanka	Morocco	Bulgaria	Netherlands	Finland	
Colomb	Myanmar	Sudan	Ukraine	Spain		
Mexi	Nepal	DR Congo	Croatia	France		
Pe	Indonesia	Palestine	Estonia	Italy		
Venezue	Bangladesh	Lebanon	Hungary	Portugal		
Argenti	South Korea	Uganda	Slovakia	Canada		
Cul	Japan	Ghana	Greece	Australia		
	Kazakhstan	Nigeria	North Macedonia	Switzerland		
		Kenya	Albania	Austria		
		Egypt	Czech Republic	Belgium		
		South Africa	Moldova	Ireland		
		Algeria	Belarus			
		The Gambia				
		Tunisia				
		Burundi				
		Saudi Arabia				

^{*} Not shown as a separate group in table 5.25, 5.26, 5.27 and 5.28 due to few cancer cases.

3.2 The Cancer Registry of Norway

The CRN has, since the implementation of a directive from the Ministry of Health and Social Affairs in January 1952, systematically collected notifications on cancer occurrence for the Norwegian population. The registration is considered to be close to complete from 1953. The completeness for the registration period 2017–2021 is estim-

ated to be 98.6% (Table 3.6), and this is at the same level as reported for the early 2000s^[5]. The Regulations for the collection and processing of data in the CRN came into force in 2002. It is mandatory to report all malignant neoplasms and precancerous disorders and benign tumours of the central nervous system and meninges to the CRN.

Main objectives

The main objectives of the CRN can be summarized as the following:

- Collect data on cancer occurrence and describe the distribution of cancer and changes over time.
- Provide a basis for research on the aetiology, diagnostic procedures, natural course of the disease, and effects of treatment in order to determine appropriate preventive measures and to improve the quality of medical care.
- Provide advice and information to public authorities and the public about preventive measures.
- Perform epidemiological research of high international standard.

The incidence registry

The incidence registry contains basic data items collected from clinicians and pathologists, as well as data from the Norwegian Patient Registry (NPR) and the Cause of Death Registry. As of 1 May 2022, the incidence registry contained information registered since 1953 on 2 164 172 cancer cases (including premalignant, and benign conditions of the central nervous system). Of these cases, 1 299 774 (60%) are included in CiN. The main reasons for excluding cases registered in the incidence registry from the official cancer statistics are:

• Premalignant cases: 656 374 (30.3%)

• Basal cell carcinomas: 167 648 (7.7%)

• Multiple primary neoplasms, according to IARC rules: 29 538 (1.4%)

• Other reasons: 10 838 (0.5%)

"Other reasons" include, in descending order, cases registered as malignant, but not regarded as cancers (some borderline tumors of the ovary and Pagets disease of the breast), cases diagnosed before 1953 and after 2021, cases registered to persons with unknown address or unknown vital status, and cases in persons who emigrated before the date of diagnosis.

Each cancer case is based on an average of five notifications, ranging from two notifications as the lowest average number for C26 to eight as the highest for C40–41 and C81. This includes clinical notifications, pathology reports and death certificates. Death certificates are only registered if no information already exists in the incidence registry about the given case (DCN). If registering all death certificates – both those notifying the CRN of a new case and those supporting an already registered case – the average number of notifications to each case would be higher.

In addition to notifications, the CRN also receives information records from the NPR, radiation therapy machines and hospital administered cancer medications. On average, there is a solid base of notifications and information records behind each registered cancer case. The incidence registry is updated continuously with information on both new cases and cases diagnosed previous years.

The clinical registries

Clinical registries, i.e. comprehensive registration schemes dedicated to specific cancers, are established to provide detailed information about diagnostic procedures, pathology-examinations, treatment and followup. The aims are to provide data for monitoring patient outcome and survival, and to be an empirical basis for scientific studies concerning prognostic factors and treatment outcomes, as well as for evaluation of the quality of cancer care. Each clinical registry has an advisory board consisting of multi-disciplinary experts from clinical and research milieus in Norway. These experts advise on the contents and activities of each clinical registry and its strategic direction. Registries are integrated in the CRN coding, quality assurance and registration activities. Table 3.3 shows the status of the clinical registries as of June 2022. Recent reports (in Norwegian) from these registries are found here:

https://www.kreftregisteret.no/ Generelt/Rapporter/Arsrapport-frakvalitetsregistrene/

Table 3.3: Status of the clinical registries, June 2022

Clinical registry for	Clinical reference/ project group	Established with extended data*	Clinical parameters for electronical report specified	Electronical report form in use	National status
Colorectal cancer	Yes	Yes	Yes	Yes	2009
Prostate cancer	Yes	Yes	Yes	Yes	2009
Breast cancer	Yes	Yes	Yes	Yes	2013
Childhood cancer	Yes	Yes	Yes	Yes	2013
Gynecological cancer**	Yes	Yes	Yes	Yes	2013
Lung cancer	Yes	Yes	Yes	Yes	2013
Lymphomas and lymphoid leukaemias	Yes	Yes	Yes	Yes	2013
Melanoma of the skin	Yes	Yes	Yes	Yes	2013
Oesophagus and stomach cancer	Yes	Yes	Yes	Yes	***
Sarcoma	Yes	Yes	Yes	Yes	***
Central nervous system	Yes	No	No	No	****
Urinary tract	Yes	No	Yes	No	***
Pancreatic cancer	Yes	Yes	Yes	Yes	****

^{*} Either by having a separate clinical report form and/or by having a database with extended information beyond the incidence registry.

*** Funding and status as national clinical registry has been applied for.

3.3 Sources of information

The sources of information and the notification process are illustrated in Figure 3.1. Information from clinical notifications, pathology reports and death certificates are the main sources that enables the CRN to code and store data on cancer patients in Norway. Information from the NPR is an important additional source for identifying cancer cases. The information is identified and linked by the personal identification number system that was established in Norway in 1964.

Information from pathology departments, hospitals and specialists

The CRN Regulations, as issued by the Ministry of Health and Social Affairs, require all health institutions in Norway involved in cancer diagnostics, treatment and follow-up to report to the CRN. Reporting should be done as soon as possible after end of diagnostics or treatment. The clinical registries use specific forms with extended information relevant for each cancer site. In addition, there are two generic forms for reporting solid or non-solid tumours not yet included in a clinical registry. These forms provide information on primary site, stage of disease, the basis for the diagnosis and primary treatment given to the patient. Clinical notifications are sent using the CRN electronical reporting service (KREMT) at the Norwegian Health Network. More information about KREMT can be found at:

https://www.kreftregisteret.no/ Registrene/Innrapportering/KREMT---Kreftregisterets-elektroniskemeldetjeneste/

Pathology reports from hospitals and independent laboratories provide histological, cytological or autopsy information. About 80% of the pathology reports are sent electronically to the CRN. The aim is to further reduce the amount of paper copies over the next couple of years by having even more pathology departments report electronically.

Dispatching of reminders to clinicians

It is mandatory to report clinical information on all new cases of cancer, except those diagnosed at autopsy. Thus, at least one clinical notification should be registered for each cancer case. In those cases where the clinical notification is missing, a reminder is sent via the KREMT-portal to the hospital/ward/physician responsible for the treatment.

Information from national registries

The Norwegian Population Registry

The CRN receives monthly updates on patients' vital status from the Norwegian Population Registry. These data are used to estimate incidence rates and long-term survival patterns and trends.

^{**} Established for ovarian and cervical cancer, and will be extended to include all gynecological cancer.

^{****} Applied for status as national clinical registry. The CRN has received funding from the Norwegian Cancer Society for establishment and operation for three years.

The Norwegian Patient Registry

Since 2002, the CRN has received data from the Patient Administrative Data System used in all Norwegian hospitals. Information was first sent directly from the hospitals, and from 2010 it has been provided by the NPR. The data contain information regarding patients who have been treated for premalignant and malignant conditions, and reminders are sent to clinicians for all cancer cases not previously registered in the CRN. The NPR is a key source in finding information on unreported cases (Figure 3.1).

Cause of Death Registry

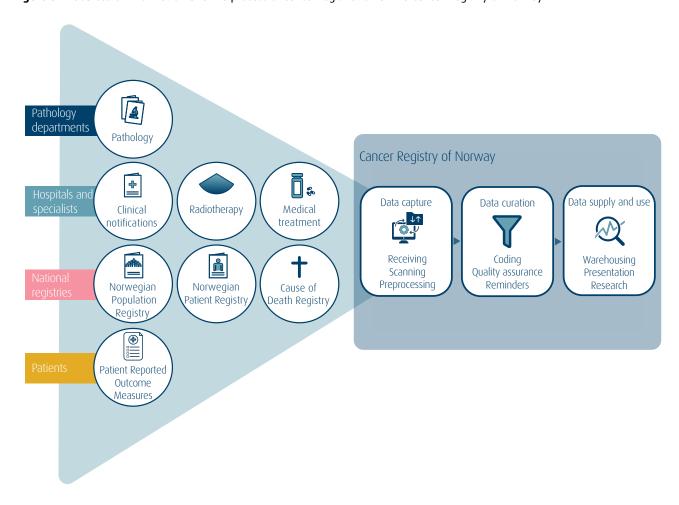
The Cause of Death Registry, run by the Norwegian Institute of Public Health, send death certificates and information on cause of death throughout the year. The automated procedure that matches registered cancer cases to death certificates is important for maintaining quality control, facilitating a high level of completeness and ensuring validity of the CRN data items. Death certificates also represent a complementary source of information on new cancer cases which are not previously reported, or where the diagnosis differs. Cancer cases first identi-

fied from death certificates are traced back to the health institution responsible for the treatment of the patient to verify the diagnosis and, if possible, get clinical information about the case. A recent study validating the cancer information on death certificates showed that 90% of the cancers mentioned on death certificates were already registered in the CRN. Of the remaining notifications, 40% were not regarded as a new case^[6].

Patient Reported Outcome Measures

Most cancer patients have received some form of treatment (surgery, radiotherapy, chemotherapy) or symptom directed palliative therapy. Extensive cancer treatments sometime cause harmful complications and late side effects, which may also affect the quality of life. To gain better knowledge in this field, the CRN now invites patients with prostate cancer, breast cancer, colorectal cancer, and melanoma of the skin to research projects and/or population surveys. Additional cancers will be included in the next few years. The results from these Patient Reported Outcome Measures (PROMs) will provide valuable information that can be used to improve current health care and optimise future treatment strategies for cancer patients.

Figure 3.1: Sources of information and the process of cancer registration at the Cancer Registry of Norway



3.4 Incidence and mortality data

The incidence data presented in the first part of this report are based on an extraction from the incidence registry on 1 May 2022. The tables and figures in general represent either the latest year of complete incidence (2021) or the latest five-year period (2017–2021). Population data, stratified by year, sex and age, are provided by Statistics Norway.

Registered codes from ICD-7, ICD-O-2 and ICD-O-3 are converted to ICD-10 using a combination of topography and morphology. According to the ICD-10 classification this means that, for example, a neuroendocrine tumour is included in the cancer site from which it originated. It is important to be aware of this, for in-

stance when interpreting the cancer statistics. It will, for instance, influence survival of C25 pancreas. The main cancer types are tabulated according to their ICD-10 categories.

Table 3.4 gives a detailed description of specific morphologies that are included or excluded in all cancer statistics presented in the present report. The "All sites" figure comprises all malignant neoplasms (ICD-10 C00–96) and the D-diagnoses listed in Table 3.4. Corresponding mortality data coded in ICD-10 were obtained from the Cause of Death Registry and are presented in the same ICD-10 categories as for the rest of this report. Of notice is that in the subsequent tables and figures the D-codes are not shown in labels due to lack of space.

 Table 3.4: Description of ICD-10 codes

ICD-10	Site	Comments
C00-96	All sites	Includes the following D-diagnoses: D32–33, D35.2–4, D42–43, D44.3–5 and D45–47. Excludes all basal cell carcinomas of all topographies. Registered codes from ICD-7, ICD-0-2 and ICD-0-3 are converted to ICD-10 using a combination of topography and morphology. This means that, for example, a neuroendocrine tumor is included in the cancer site from which it originated
C00	Lip	Includes the following ICD-10 codes: C00.0–2, C00.6, C00.8 (only included if Lip NOS), C00.9
C02-06	Oral cavity	Includes the following ICD-10 codes: C00.3–5, C00.8 (if the tumor is in mucosa of upper or lower lip), C02.0–4, C02.8–9, C03.0–9, C04.0–9, C05.0, C05.8, C05.9, C06.0–9
C07-08	Salivary glands	Includes the following ICD-10 codes: C07.9, C08.0-9
C09-10, C01, C14	Oropharynx	Includes the following ICD-10 codes: C01.9, C05.1–2, C09.0–9, C10.0–9, C14.0–8
C11	Nasopharynx	Includes the following ICD-10 codes: C11.0-9
C12-13	Hypopharynx	Includes the following ICD-10 codes: C12.9, C13.0-9
C38	Heart, mediastinum and pleura	Excludes mesotheliomas (which are included in C45)
C48-49	Soft tissues etc.	Includes retroperitoneum and peritoneum (C48). In women, cases in peritoneum (C48.2) are excluded, as these are included in ovary etc. (C56, C57.0–4, C48.2)
C50	Breast	Excludes Pagets disease
C56, C57.0-4, C48.2	Ovary etc.	Excludes borderline tumours. Includes the following sites: Neoplasms in peritoneum (C48.2, epithelial tumours), fallopian tube (C57.0), broad ligament (C57.1), round ligament (C57.2), parametrium (C57.3), uterine adnexa, unspecified (C57.4), and epithelial tumors supposed to originate from tube, ovary or peritoneum. It also includes adult granulosa cell tumour
C64	Kidney (excl. renal pelvis)	Excludes non-invasive tumours
C65	Renal pelvis	Includes non-invasive papillary tumours, dysplasia and carcinoma in situ
C66	Ureter	Includes non-invasive papillary tumours, dysplasia and carcinoma in situ
C67	Bladder	Includes non-invasive papillary tumours, dysplasia and carcinoma in situ
C68	Other and unspecified urinary organs	Includes non-invasive papillary tumours, dysplasia and carcinoma in situ
C70	Meninges	Includes benign tumours (D32–33, D42–43)
C71	Brain	Includes benign tumours (D32-33, D42-43)
C72	Spinal cord, cranial nerves and other parts of central nervous system	Includes benign tumours (D32–33, D42–43)
C75	Other endocrine glands and related structures	Includes benign tumours (D35.2-4, D44.3-5)
C90	Multiple myeloma	Includes plasmacytomas (C90.2–3)
C92	Myeloid leukaemia	Includes myelodysplastic syndrome (D46)
C95	Leukaemia of unspecified cell type	Includes polycythaemia vera (D45) and other unspecified tumours in lymphatic or hematopoietic tissue (D47)

Multiple primary neoplasms

Multiple primaries occur where two or more primary cancers develop within the same organ (or a pair of organs), as opposed to a recurrence or progression of an existing cancer. They may occur at the same time (synchronous), or in sequences (metachronous).

We use the recommendations for counting multiple primary neoplasms as outlined by the IARC/WHO/ENCR/IACR Working group in 2004. These are available at:

http://www.iacr.com.fr/images/doc/
MPrules_july2004.pdf

The guidelines state that when counting cases, only one tumour is recognized as arising in an organ or a pair of organs or tissue. Furthermore, the IARC recommendations has a list of 17 groups of malignant neoplasms considered to be histologically 'different' for the purpose of defining multiple tumours (as described in Table 25, page 26, World health Organization International Classification of Diseases for Oncology, third edition, first revision, 2013^[7]).

Thus, in this report only the first invasive tumour of a defined histological type is counted within one two-digit topography code (ICD-O-3) (for example breast C50). A new cancer of the same histological group in the same organ at a later point in time will not be counted. If there are different histological diagnoses, for example an adenocarcinoma and a sarcoma in the same organ, these will be counted as two cancer cases. Some organs are considered as only one organ in this respect (for example trachea C33 and lung C34). Multifocal tumours are counted only once. This is also the case for the systemic cancers like lymphomas, leukaemias and kaposi's sarcomas (defined as histological groups 8–15 in the IARC recommendations).

For metachronous cases within the same histological group, i.e. cancer cases considered to be histologically similar, the case with the first date of diagnosis is reported. For synchronous cases the case with the most severe metastasis status is reported. If the metastasis status is equal, the case with the numerically highest morphology code (ICD-O-3) is reported. Finally, if metastasis status, and morphology code is equal we report the first registered case.

In previous publications of CiN we have reported a slightly higher number of cases than if the IARC recommendations had been followed strictly because we considered non-specific groups as separate morphology groups. In this report, we have adjusted this to better comply to the IARC recommendations:

We now exclude cases with unspecific histological groups (5 and 17) if the person also is registered with another case within the same organ or pair of organs or tissue that has a specific histology (1–4, 6–7 and 16). Histology group 5 is preferred over 17 if a person only has several tumours with unspecified histology in the same organ. Among cases with tumours of haematopoietic and lymphoid tissues, we exclude cases with an unspecified histology (14) if the person also has a case with specified histology (8–13). These rules are followed regardless of time of diagnosis.

Extent of disease

In the present report we have classified stage as follows:

Localised stage: All cases where the tumour is confined to the primary organ.

Regional stage: All cases where the tumour has invaded neighbouring tissue outside of the primary organ or metastasised to regional lymph nodes.

Distant stage: All cases where the tumour has metastasised to other organs or distant lymph nodes.

Unknown: All cases where the primary origin of the tumour is not known and cases with insufficient information to set stage.

For some cases, the CRN only receive histological reports and no clinical notifications. A large proportion of these cases lack verified information on metastases at the time of diagnosis.

The following rules are used to set a specific stage for these patients: If a patient has major surgery and there is no clinical or pathological information that indicates metastasis, the patient is considered to have localised disease. If only a cytology or biopsy exist for the case, and there is no information about extent of disease, the patient is registered with an unknown stage. A detailed description of the assessment of stage is available at:

https://metadata.kreftregisteret.no/variables/detail/733

3.5 Data quality

A comprehensive assessment of the data quality in the CRN was conducted in 2007^[5]. Larsen & al. reported that the coding and classification systems in general followed international standards. Estimated overall completeness was 98.8% for the registration period 2001–2005, a lower completeness was observed for haematological malignancies and cancers of the central nervous system.

Practical aspects and techniques for addressing the data quality at a cancer registry, including the documentation of comparability, validity and timeliness were reviewed in 2009^[8]. Methods for the evaluation of registry completeness were also assessed the same year^[9].

Two indicators of accuracy are shown in Table 3.5, namely the percentage of cases morphologically verified (MV%), and the percentage of death certificate only registrations (DCO%).

3.6 Completeness and timeliness

Table 3.6 presents completeness estimates for the period 2017–2021. For all cancers combined, the new estimates are nearly the same as those reported for the early 2000s. We still see that some few cancers have completeness estimates below 95% (e.g. cancer of the liver, central nervous system, pancreas and leukaemia).

Table 3.7 shows the number of cancer cases diagnosed in 2020 as extracted on 30 August 2021 (for CiN 2020), and on 1 May 2022.

The number of cancer cases diagnosed in 2020 reported and appearing in this issue (CiN 2021) are 345 (1.0%) more than reported in the previous report (CiN 2020). Of note is the high percentage difference for cervical cancer (8.2%). This is probably due to unreceived biopsy reports confirming all the malignant cases, especially for those diagnosed in the latest months of 2020.

This report is published before we have received the complete numbers of deaths from the Cause of Death Registry. However, since we receive death certificates throughout the whole year, we expect that we are close to complete for death certificates for 2021.

Table 3.5: Percentage distribution of morphologically verified (MV) and death certificate only (DCO) cases by primary site, 2017–2021

C00-96 All sites 177773 93.0 C00-14 Mouth, pharynx 3399 98.8 C00 Lip 490 100.0 C02-06 Oral cavity 1114 98.7 C07-08 Salivary glands 335 97.9 C09-10, C01, C14 Oropharynx 1227 98.5 C11 Nasopharynx 187 98.9 C11-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35817 89.3 C15 Oesophagus 1671 95.2 C16 Stomach 2216 94.3 C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C3-2-4 Gallbladder, bile ducts 846 70.8 C23-2 Pancreas 4661	1.4 0.4 0.0 0.3 1.5 0.5 0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5
C00 Lip 490 100.0 C02-06 Oral cavity 1114 98.7 C07-08 Salivary glands 335 97.9 C09-10, C01, C14 Oropharynx 1227 98.5 C11 Nasopharynx 87 98.9 C12-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35817 89.3 C15 Oesophagus 1671 95.2 C16 Stomach 2216 94.3 C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550	0.0 0.3 1.5 0.5 0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C02-06 Oral cavity 1114 98.7 C07-08 Salivary glands 335 97.9 C09-10, C014 Oropharynx 1227 98.5 C11 Nasopharynx 87 98.9 C12-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35817 89.3 C15 Oesophagus 1671 95.2 C16 Stomach 2216 94.3 C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 461 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 1736 86.3 C32 Larynx, epiglottis	0.3 1.5 0.5 0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C07-08 Salivary glands 335 97.9 C09-10, C01, C14 Oropharynx 1227 98.5 C11 Nasopharynx 87 98.9 C12-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35 817 89.3 C15 Oesophagus 1671 95.2 C16 Stomach 2216 94.3 C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 136 84.9 C30-34, C38 Respiratory organs 1736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis <td>1.5 0.5 0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4</td>	1.5 0.5 0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C09-10, C01, C14 Oropharynx 1227 98.5 C11 Nasopharynx 87 98.9 C12-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35817 89.3 C15 Oesophagus 1671 95.2 C16 Stomach 2216 94.3 C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C33-34 Lung, trachea 168.83 85.9 C33 Heart, mediastinum a	0.5 0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C11 Nasopharynx 87 98.9 C12-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35 817 89.3 C15 Oesophagus 1671 95.2 C16 Stomach 2 216 94.3 C17 Small intestine 1 130 95.1 C18 Colon 15 523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1 829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 82 59.8 C33 Heart, mediastinum and pl	0.0 0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C12-13 Hypopharynx 146 98.6 C15-26 Digestive organs 35 817 89.3 C15 Oesophagus 1 671 95.2 C16 Stomach 2216 94.3 C17 Small intestine 1 130 95.1 C18 Colon 15 523 94.4 C19-20 Rectum, rectosigmoid 6 791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4 661 68.7 C26 Other digestive organs 638 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16 883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin	0.0 1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C15-26 Digestive organs 35 817 89.3 C15 Oesophagus 1 671 95.2 C16 Stomach 2 216 94.3 C17 Small intestine 1 130 95.1 C18 Colon 15 523 94.4 C19-20 Rectum, rectosigmoid 6 791 97.4 C21 Anus 514 93.0 C22 Liver 1 829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4 661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 1 7736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16 833 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melano	1.9 1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C15 Oesophagus 1 671 95.2 C16 Stomach 2 216 94.3 C17 Small intestine 1 130 95.1 C18 Colon 15 523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1 829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4 661 68.7 C26 Other digestive organs 636 84.9 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16 883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C45 Mesothelioma	1.2 1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C16 Stomach 2216 94.3 C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 168.3 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C45 Mesothelioma 13 543 99.8 C45 Mesothelioma 11 722 99.8 C45 Mesothelioma 13 54	1.4 1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5
C17 Small intestine 1130 95.1 C18 Colon 15523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 1683 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Au	1.2 1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C18 Colon 15 523 94.4 C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16 883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C46 Autonomic nervous system 48 100.0 C48-49	1.4 0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C19-20 Rectum, rectosigmoid 6791 97.4 C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 </td <td>0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5</td>	0.4 0.0 4.8 5.6 3.0 11.5 2.4 0.5
C21 Anus 514 93.0 C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13.543 99.8 C45 Mesothelioma 13.543 99.8 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18.438 99.4 C51-52 Female genital organs 8955 97.1 C53 Cervix uteri 1806 99.3	0.0 4.8 5.6 3.0 11.5 2.4 0.5 0.4
C22 Liver 1829 61.6 C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 895 97.1	4.8 5.6 3.0 11.5 2.4 0.5 0.4
C23-24 Gallbladder, bile ducts 846 70.8 C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13.543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18.438 99.4 C51-58 Female genital organs 89.55 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 18.06 99.3 <	5.6 3.0 11.5 2.4 0.5 0.4
C25 Pancreas 4661 68.7 C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17.736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11.722 99.8 C44 Skin, non-melanoma 13.543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18.438 99.4 C51-58 Female genital organs 89.55 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3 <td>3.0 11.5 2.4 0.5 0.4</td>	3.0 11.5 2.4 0.5 0.4
C26 Other digestive organs 636 84.9 C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3	11.5 2.4 0.5 0.4
C30-34, C38 Respiratory organs 17736 86.3 C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13.543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18.438 99.4 C51-58 Female genital organs 8.955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1.806 99.3	2.4 0.5 0.4
C30-31 Nose, sinuses 221 98.6 C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11.722 99.8 C44 Skin, non-melanoma 13.543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18.438 99.4 C51-58 Female genital organs 8.955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3	0.5 0.4
C32 Larynx, epiglottis 550 97.1 C33-34 Lung, trachea 16.883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11.722 99.8 C44 Skin, non-melanoma 13.543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18.438 99.4 C51-58 Female genital organs 8.955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1.806 99.3	0.4
C33-34 Lung, trachea 16 883 85.9 C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11 722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3	
C38 Heart, mediastinum and pleura 82 59.8 C40-41 Bone 279 97.5 C43 Melanoma of the skin 11 722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3	
C40-41 Bone 279 97.5 C43 Melanoma of the skin 11 722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	2.3
C43 Melanoma of the skin 11722 99.8 C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	23.2
C44 Skin, non-melanoma 13 543 99.8 C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	0.7
C45 Mesothelioma 411 92.9 C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	0.1
C47 Autonomic nervous system 48 100.0 C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3	0.0
C48-49 Soft tissues 588 96.1 C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	1.0
C50 Breast 18 438 99.4 C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	0.0 1.4
C51-58 Female genital organs 8 955 97.1 C51-52, C57.7-9 Other female genital 617 95.3 C53 Cervix uteri 1 806 99.3	0.4
C51–52, C57.7–9 Other female genital 617 95.3 C53 Cervix uteri 1806 99.3	1.2
C53 Cervix uteri 1806 99.3	2.6
	0.4
C34 Corpus dichi 3072 70.7	0.4
C55 Uterus, other 43 60.5	20.9
C56, C57.0-4, C48.2 Ovary etc. 2588 94.0	2.1
C58 Placenta 9 66.7	0.0
C60-63 Male genital organs 27 115 95.1	0.8
C61 Prostate 25 289 94.8	0.8
C62 Testis 1494 99.6	0.0
C60, C63 Other male genital 332 98.8	0.9
C64-68 Urinary organs 13 485 96.1	1.0
C64 Kidney (excl. renal pelvis) 4550 92.4	1.8
C65-68 Urinary tract 8935 98.0	0.5
C69 Eye 417 58.0	0.5
C70-72 Central nervous system 4 999 72.9	2.5
C73 Thyroid gland 2 359 99.4	0.3
C37, C74-75 Other endocrine glands 897 64.3	1.2
C39, C76, C80 Other or unspecified 1694 51.8	34.1
C81–96 Lymphoid/haematopoietic tissue 15 871 93.1	
C81 Hodgkin lymphoma 728 100.0	1.0
C82–86, C96 Non-Hodgkin lymphoma 5 236 99.0	1.0 0.0
C88 Immunoproliferative disease 456 97.4	
C90 Multiple myeloma 2 600 93.2	0.0
C91–95 Leukaemia 6 851 87.5	0.0 0.3

 Table 3.6: Completeness by primary site, 2017–2021

ICD-10	Site	Completeness (%)
C00-96	All sites	98.6
C00-14	Mouth, pharynx	99.7
C00	Lip	99.7
C02-06	Oral cavity	99.8
C07-08	Salivary glands	-
C09-10, C01, C14	Oropharynx	99.7
C11	Nasopharynx	99.0
C12-13	Hypopharynx	99.5
C15-26	Digestive organs	98.8
C15	Oesophagus	99.7
C16	Stomach	99.0
C17	Small intestine	98.2
C18	Colon	99.8
C19-20	Rectum, rectosigmoid	99.9
C21	Anus	99.4
C22	Liver	81.8
C23-24	Gallbladder, bile ducts	90.4
C25	Pancreas	90.7
C26	Other digestive organs	91.2
C30-34, C38	Respiratory organs	98.9
C30-31	Nose, sinuses	99.6
C32	Larynx, epiglottis	99.8
C32 C33-34	Lung, trachea	99.0
C38	Heart, mediastinum and pleura	99.0
C40-41	Bone	92.1
C40-41	Melanoma of the skin	100.0
C44	Skin, non-melanoma	99.8
C45 C47	Mesothelioma	98.6
C48-49	Autonomic nervous system Soft tissues	99.6
C50	Breast	100.0
		99.8
C51-58	Female genital organs	
C51-52, C57.7-9	Other female genital Cervix uteri	99.9
C53		100.0
C54	Corpus uteri	99.9
C55	Uterus, other	91.8
C56, C57.0-4, C48.2	Ovary etc.	99.7
C58	Placenta	96.4
C60-63	Male genital organs	99.6
C61	Prostate	99.7
C62	Testis	99.7
C60, C63	Other male genital	99.6
C64-68	Urinary organs	98.7
C64	Kidney (excl. renal pelvis)	96.7
C65-68	Urinary tract	99.6
C69	Eye	89.7
C70-72	Central nervous system	85.2
C73	Thyroid gland	99.5
C37, C74-75	Other endocrine glands	66.4
C39, C76, C80	Other or unspecified	68.4
C81-96	Lymphoid/haematopoietic tissue	97.2
C81	Hodgkin lymphoma	100.0
C82-86, C96	Non-Hodgkin lymphoma	99.8
C88	Immunoproliferative disease	99.6
C90	Multiple myeloma	94.9
C91-95	Leukaemia	93.9
C90	Multiple myeloma	94.9

⁻ Not estimable (see CiN Technical Supplement $^{[10]}$).

 Table 3.7: Registered cancer cases in Norway 2020, as obtained by 30 August 2021 and 1 May 2022

		Cases diagnosed 2020 as of				
ICD-10	Site	30.8.2021	1.5.2022	Difference	%	
C00-96	All sites	35 5 1 5	35 860	345	1.0	
C00-14	Mouth, pharynx	686	692	6	0.9	
C00	Lip	100	101	1	1.0	
C02-06	Oral cavity	222	224	2	0.9	
C07-08	Salivary glands	60	62	2	3.3	
C09-10, C01, C14	Oropharynx	249	251	2	0.8	
C11	Nasopharynx	14	14	0	0.0	
C12-13	Hypopharynx	41	40	-1	-2.4	
C15-26	Digestive organs Oesophagus	7291	7391	100	1.4	
C15 C16	Stomach	462	470	8	1.0	
C17	Small intestine	249	254	5	2.0	
C18	Colon	3 121	3 137	16	0.5	
C19-20	Rectum, rectosigmoid	1373	1394	21	1.5	
C21	Anus	106	106	0	0.0	
C22	Liver	377	397	20	5.3	
C23-24	Gallbladder, bile ducts	179	180	1	0.6	
C25	Pancreas	929	957	28	3.0	
C26	Other digestive organs	107	104	-3	-2.8	
C30-34, C38	Respiratory organs	3 494	3 522	28	0.8	
C30-31	Nose, sinuses	49	48	-1	-2.0	
C32	Larynx, epiglottis	100	101	1	1.0	
C33-34	Lung, trachea	3 3 3 1	3 358	27	0.8	
C38	Heart, mediastinum and pleura	14	15	1	7.1	
C40-41	Bone	46	47	1	2.2	
C43	Melanoma of the skin	2338	2 3 4 8	10	0.4	
C44	Skin, non-melanoma	2 9 0 1	2 907	6	0.2	
C45	Mesothelioma	71	72	1	1.4	
C47	Autonomic nervous system	8	8	0	0.0	
C48-49	Soft tissues	122	118	-4	-3.3	
C50	Breast	3 455	3 461	6	0.2	
C51-58	Female genital organs	1700	1735	35	2.1	
C51-52, C57.7-9	Other female genital	114	120	6	5.3	
C53	Cervix uteri	328	355	27	8.2	
C54	Corpus uteri	764	770	6	0.8	
C55	Uterus, other	6	6	0	0.0	
C56, C57.0-4, C48.2	Ovary etc.	487	482	-5	-1.0	
C58	Placenta	1	2	1	100.0	
C60-63	Male genital organs	5 3 7 0	5 413	43	0.8	
C61	Prostate	5 030	5 072	42	0.8	
C62	Testis	285	285	0	0.0	
C60, C63	Other male genital	55	56	1	1.8	
C64-68	Urinary organs	2746	2746	0	0.0	
C64	Kidney (excl. renal pelvis)	894	899	5	0.6	
C65-68	Urinary tract	1852	1847	-5	-0.3	
C69	Eye	78	78	0	0.0	
C70-72	Central nervous system	957	982	25	2.6	
C73	Thyroid gland Other endocrine glands	488 161	516 175	28 14	5.7 8.7	
C37, C74-75 C39, C76, C80	Other or unspecified	390	383	-7	-1.8	
C81-96	Lymphoid/haematopoietic tissue	3213	3 2 6 6	53	1.6	
C81	Hodgkin lymphoma	147	148		0.7	
C82-86, C96	Non-Hodgkin lymphoma	1062	1058	-4	-0.4	
C88	Immunoproliferative disease	94	1038	7	7.4	
C90	Multiple myeloma	556	562	6	1.1	
C91-95	Leukaemia	1354	1397	43	3.2	
C/1 /3	ECONOCITIO	1 3 3 4	13/1	43	٦.٢	

Chapter 4 Statistical methods

In this report, we use four measures to describe the burden and risk of cancer: *incidence*, *mortality*, *prevalence* and *survival*.

4.1 Incidence and mortality

Incidence and mortality refer to the number of new cases and deaths, respectively. Both measures can be expressed as the absolute number, or as the rate, taking into account the size of the population at risk. Rates are essential for the comparisons of groups, and within a group over time. The denominator is the underlying person-time at risk in which the new cases or deaths in the numerator arise. Cancer incidence and mortality are presented in this report both as numbers and rates. Several different types of rates are also used in this report. We use the mid-year population (calculated as the mean of the population as obtained by January 1st and December 31st) as the denominator in the calculation of rates. For periods with several years, we use the sum of mid-year populations.

Age-specific rates

There are compelling reasons for adjusting for the distribution of age when comparing cancer risk in populations. Age is a strong determinant of cancer risk. The crude rate is a rate based on the frequency of cancer in the entire population irrespective of age. Although this measure is useful as an indicator of the total cancer burden, its utility in comparing cancer risk between different populations is severely limited when the age distribution differs between the groups, or where demographic changes in the size and age structure of a population have occurred over time.

To obtain a more accurate picture of the true risk of cancer, rates can be calculated for specific age strata, usually grouped in five-year intervals. The age-specific rate for age group i, denoted as r_i , is obtained by dividing the number of events, d_i , by the corresponding person-years, Y_i . As rates are most often given per 100 000 person-years we multiply by 100 000:

$$r_i = \frac{d_i}{Y_i} \cdot 100000$$

Usually, rates are provided separately for males and females, because of the different patterns by sex both in

terms of number of cases (see Table 5.9 and 5.10) and persons under risk (see Table 3.1). Age- and sex-specific incidence and mortality rates are the basis of epidemiological analysis of cancer frequency data. Table 3.1

Age-standardised rates

To facilitate comparisons, a summary rate is derived that takes into account age-specific rates in each comparison group. The summary measure that appears in this report is the age-standardised rate (ASR), a statistic that is independent of the effects of age, thus allowing comparisons of cancer risk between different groups and over time. The calculation of the ASR is an example of direct standardisation, whereby the observed age-specific rates are applied to a standard population. The population size or proportion in each age group of the standard population are known as the weights to be used in the standardisation process. The ASR is calculated as:

$$ASR = \frac{\sum_{i} r_i w_i}{\sum_{i} w_i}$$

where w_i is a weight given a reference population.

The World Standard Population^[11,12] has been used as reference population in several previous report of CiN. Since CiN 2014 we have used the Norwegian mid-year population in 2014 as the reference population. This standard is referred to as the *Norwegian standard*.

The two standards, using 18 age groups, are shown in Figure 4.1, and it clearly illustrates the difference between them: The Norwegian standard has higher weights for the oldest age groups.

The main advantage of using the Norwegian standard as the reference population is that we are getting age-standardised rates that resemble the crude rates for the Norwegian population. The main disadvantage is that the rates are not comparable with national rates from other countries. Table 5.1 shows the ASR in 2021 with the two different standards.

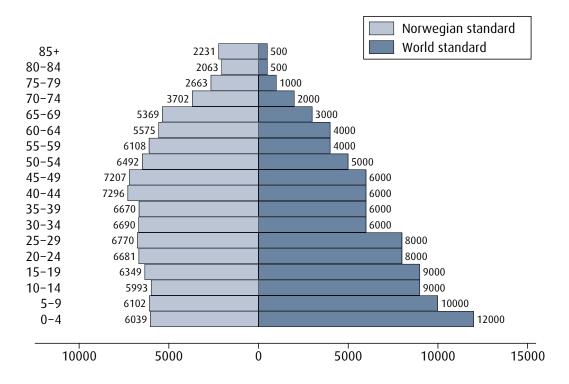
Of notice is that, in general, the ASRs with Norwegian standard gives twice as high rates as the ASRs with World standard. This is because the World standard has lower weights for the oldest age groups. Cancers that have the highest incidence rates in the youngest age groups

(e.g. testicular cancer) are less affected by the choice of reference population.

Age-standardised incidence rates (World standard) are available at:

https://sb.kreftregisteret.no/insidens

Figure 4.1: Comparison of population weights



Cumulative risk

The cumulative risk is the probability that an individual will develop the cancer under study during a certain age span, in the absence of other competing causes of death^[13]. The age span over which the risk is accumulated must be specified, and in this report, the range 0-79 years is used and provides an approximation of the risk of developing cancer. If before the age of 80 the cumulative risk is less than 10%, as is the case for most cancer forms, it is reasonably approximated by the cumulative rate. This is the summation of the age-specific rates over each year of age from birth to a defined upper age limit. As age-specific incidence rates are computed according to five-year age groups, the cumulative rate is five times the sum of the age-specific rates calculated over the fiveyear age groups, assuming the age-specific rates are the same for all ages within the five-year age stratum:

Cumulative rate =
$$5\sum_{i} r_i$$

The cumulative rate has several advantages compared to age-standardised rates. First, as a form of direct standardisation, the problem of choosing an arbitrary reference population is eliminated. Second, as an approximation to the cumulative risk, it has a greater intuitive appeal, and is more directly interpretable as a measurement of lifetime risk, assuming no other causes of death are in operation. The precise mathematical relationship between the two is:

Cumulative risk =
$$1 - e^{-\text{Cumulative rate}}$$

Completeness

Completeness was estimated by the use of the capture-recapture method described by Parkin and Bray^[9].

This method has been used to estimate the size of a population and is widely used in field biology to estimate the size of a closed animal population. In that purpose, and briefly explained, animals are captured, marked, and released, followed by a new catch (recapture). The number of captured animals in the first catch, the number of new animals in the second catch and the number of recaptured animales are used to estimate the number of uncatched animals.

When this method is used to estimate completeness in a cancer registry context, we assume that cases are registered by two different data sources. Cases registered on pathology reports and/or death certificates (source A) is the first 'catch', and cases registered on clinical notifications (source B) is the second 'catch'. A detailed description of the method can be found in CiN Technical Supplement^[10].

4.2 Prevalence

Prevalence is the number or proportion of a population that has the disease at a given point in time. It is a complex measure of cancer incidence, mortality, and other factors affecting individuals after diagnosis and treatment.

Prevalence is a useful measure of the number of persons requiring care for chronic illnesses such as hypertension and diabetes. For cancer, on the other hand, many patients diagnosed in the past may now be considered cured, that is to say they no longer have a greater risk of death. However, there may be special needs and disabilities subsequent to cancer disease and treatment, thus it is likely that the number of prevalent cancer cases also represents a useful measure.

Cancer prevalence can be defined as the number of persons alive having ever been diagnosed with cancer. Such a measure can easily be derived from the CRN data, given the registration of cases and complete follow up over many years. We provide additional estimates that may be useful for quantifying care burden. Therefore, this report shows the numbers of persons alive on December 31st 2021 who were previously diagnosed with cancer during the last year, one to four years, five to nine years, and 10 or more years.

We also show the number of patients who have been diagnosed with metastatic disease or local recurrence with metastasis and who were alive at various specific time points. This is another estimate of how the cancer burden has increased over time.

4.3 Survival

The survival time of a cancer patient is defined as the time that elapses between a cancer diagnosis and subsequent death, emigration, or end of follow-up. A common measure of survival is five-year observed survival, which represents the percentage of patients still alive five years after their date of diagnosis.

Follow-up data

To estimate long-term survival patterns and trends, vital statistics of patients diagnosed with cancer during 1965–2021 were obtained from the National Popula-

tion Registry and Statistics Norway through to December 31st 2021.

The 23 most common cancers were selected for analysis, grouped according to their respective ICD-10 categories. About 3% of cases were excluded as they were either registered on death certificate only (DCO), emigrated before diagnosis, or had zero survival time. It has been shown that exclusion of patients with a prior cancer diagnosis, which often is associated with a poorer prognosis, may artificially elevate estimates of survival^[14]. Therefore patients with previous cancer diagnoses were included in each site-specific analysis. However, to provide an estimate of "all sites" survival, analysis was restricted to first primary cancers. While the inclusion of multiple primaries has been recommended for comparative purposes, the corresponding reduction in the overall survival estimates has been shown to be negligible. In Norway, the effect of their inclusion has been shown to reduce five-year survival by less than a percentage point^[15].

Survival results should be interpreted with caution. Survival of prostate cancer and breast cancer has been affected by PSA testing and mammographic screening, respectively.

Relative survival (net survival)

Not all deaths among cancer patients are due to the cancer under study. Deaths resulting from other causes will lower the survival and may possibly invalidate comparisons between populations. Relative survival is calculated to circumvent this problem by providing an estimate of *net survival* the survival in a hypotetical world where the cancer is the only possible cause of death.

Relative survival is calculated as the observed survival proportion in a patient group divided by the expected survival of a comparable group in the general population with respect to age, sex and calendar year of investigation. At each time, t(year), since diagnosis, the relative survival from the cancer, R(t), is defined as follows:

$$R(t) = \frac{S_O(t)}{S_E(t)}$$

where $S_O(t)$ is the observed survival of cancer patients, the expected survival, $S_E(t)$, is based on the general population survival using national population life tables from Statistics Norway by sex, one-year age group and calendar year. Age standardised relative survival (net survival) was estimated by the Stata program stnet [16] using the Pohar Perme estimator [17]. The estimates were age standardised applying weights to individuals [18,19] based on the age distribution of the patient group the

last five-year period 2017–2021 (females and males combined for all groups, other than "All sites" where sexspecific weights were used).

For patient cohorts with complete five-year follow-up the *cohort* method was used.

With traditional cohort-based analyses, the most up-todate estimates of long-term survival pertain to patients diagnosed in the distant past, with corresponding profiles of prognosis. A more up-to date picture of the current survival is obtained using the period method. In this report we used a five-year period window (2017–2021) to predict relative survival up to 15 years for patients diagnosed in 2017-2021 (Table 8.3 and Figure 8.1). The period approach consists of the pieces of survival experience observed in the period 2017–2021 for patients diagnosed up to 15 years ago. Thus, patients diagnosed in 2016-2021 contribute with (part of) their survival experience the first year of follow up, patients diagnosed in 2015-2020 contribute to the second year of followup, patients diagnosed in 2014-2019 contribute to the third year of follow-up and so on.

When analysing time trends in five-year relative survival (Figure 9.1) a rolling five-year window was used to obtain smoother curves. For patients with (potential) five-year observation the cohort approach was used. Thus, estimates for e.g. 2016 is based on patients diagnosed in 2012–2016. Estimates for 2021 were obtained

using the most recent five-year period window, while estimates for the years where only part of the cohort had complete follow-up (2017–2020) were obtained using a combination of the cohort and period approach to ensure that minimal survival experience from patients diagnosed in the past was used.

Estimation was performed for groups with 30 or more patients at start of follow-up.

A detailed description of the methods can be found in CiN Techical Supplement^[10].

Conditional relative survival

Cancer survivors want information on their current prognosis, once they have survived a certain period of time. Conditional survival is a key indicator in this respect, estimating survival proportions given that patients have already survived a certain duration of time^[20,21].

The time at which five-year relative survival reaches 100% is the point from which there is no excess mortality among the cancer patients, and their survival is equivalent to survival in the general population. We present estimates of sex-specific five-year relative survival conditional on being alive 1 to 10 years after diagnosis in Figure 8.1.

Estimates were not plotted when there were less than twenty patients alive (n < 20).

Chapter 5 Incidence

5.1 New cancer cases

Number of new cases

In 2021, there were 36 998 new cases of cancer (in 36 017 individuals) recorded in Norway, of which 19 684 cases were diagnosed in men, and 17 314 in women (Table 5.1). This is nearly 1500 more new cases of cancer than reported in CiN 2020.

The four most common cancers (cancers of the prostate, female breast, lung and colon) accounted for 43% of the new cancer cases in 2021. The proportion increases to 47% if rectal cancer is included.

In men, prostate cancer continued to be the most common cancer site, with 5188 new cases; followed by lung (1786 cases) and colon cancer (1517 cases). Breast cancer remained the most frequent cancer site in women, with 3991 new cases; followed by lung cancer (1713 cases) and colon cancer (1687 cases).

There is a steady increase in the number of new cancer cases diagnosed per year. Since 2011, this number has increased by more than 6000.

Incidence rates

Among men, there has been a slightly decrease in the age-standardised incidence rate for all sites combined since 2016 (Table 5.7), while the rate in women has stabilised during the same period (Table 5.8). The interpretation of rates from one year to another is however prone to random varitations, especially for rare cancers. Thus, in order to interpret the risk of cancer we often compare rates for in five-year periods. When comparing the rates in the most recent five-year period (2017–2021) with the previous one (2012–2016) (Tables 5.15 and 5.16) we observe that:

- The rate for all cancers combined decreased by 3.8% for men and increased by 2.1% for women.
- The rate of prostate cancer decreased by 12.3%.
- The rate of breast cancer increased by 5.2%.
- The rate of lung cancer for men decreased by 8.5% and increased by 3.4% in women.

- The rate of colon cancer decreased by 4.9% in men, and 2.5% in women. The rate of rectal cancer decreased by 10.6% in men and 9.6% in women.
- The rates of melanoma of the skin increased by 10.3% in men and 8.5% in women.
- The rates of non-melanoma skin cancer, increased by 28.4% in men and 31.6% in women.
- Among more uncommon cancers, the notable increase in the rates for liver (especially in men), and thyroid cancer continues.

In 2017–2021, 9% of all cancer cases occured in immigrants, and for most cancers immigrants have lower incidence rates compared to Norwegian-borns. Exceptions exist especially for lung cancer in men, and liver and stomach cancers in both genders, where rates are higher among some immigrant groups. The incidence numbers and rates presented in Tables 5.25–5.28 must however be interpreted with caution as the number of cancer cases among immigrants are low and prone to random variation.

Cancer incidence and COVID-19

In last year's report (CiN 2020) we could not see any convincing decrease in the incidence for the vast majority of cancers from 2019 to 2020, but there were some exceptions: The incidence rate of breast cancer decreased by 10%. Most likely because the mammographic screening program was shut down for a few months. The centers opened gradually over the summer/fall, but the number of screening examinations were markedly fewer during 2020. Moreover, a 15% decrease in incidence of cervical cancer was seen, most likely caused by lower participation in cervical screening in 2020. There were also fewer uterine and ovarian cancers diagnosed in 2020. Finally, the incidence rate of lung cancer in women decreased by 6%.

In this year's report we observe that the decline in incidence for breast, ovarian and lung cancer among women in 2020, is followed by an increase in the rates in 2021. For breast cancer we observe that the increase in rates from 2020 to 2021 is most pronounced for women in screening age (50-69 years). Such an increase is not observed for cervical cancer. However, we assume that the numbers for cervical cancer in 2021 is incomplete and is thus difficult to interpret.

 Table 5.1: Number and age-standardised rates of new cases by primary site and sex, 2021

ICD-10		Cases		Age-standardised rates				
	Site				Norwe	egian std.	World std.	
		Males	Females	Total	Males	Females	Males	Females
C00-96	All sites	19 684	17 314	36 998	698.9	569.0	353.2	322.9
C00-14	Mouth, pharynx	477	260	737	16.8	8.5	9.4	4.8
C00	Lip	57	45	102	2.0	1.4	0.9	0.7
C02-06	Oral cavity	123	109	232	4.3	3.5	2.3	1.8
C07-08	Salivary glands	46	33	79	1.7	1.1	1.0	0.7
C09-10, C01, C14	Oropharynx	204	66	270	7.1	2.3	4.3	1.4
C11	Nasopharynx	16	5	21	0.6	0.2	0.4	0.1
C12-13	Hypopharynx	31	2	33	1.1	0.1	0.6	0.0
C15-26	Digestive organs	3 898	3 430	7 328	140.0	108.6	68.2	54.1
C15	Oesophagus	255	89	344	9.1	2.8	4.4	1.3
C16	Stomach	227	166	393	8.4	5.3	3.7	2.7
C17	Small intestine	134	111	245	4.8	3.6	2.5	2.0
C18	Colon	1517	1 687	3 204	55.1	52.9	25.6	25.5
C19-20	Rectum, rectosigmoid	808	538	1346	28.4	17.4	15.0	9.2
C21	Anus	37	69	106	1.3	2.3	0.7	1.4
C22	Liver	266	138	404	9.5	4.4	4.9	2.3
C23-24	Gallbladder, bile ducts	88	102	190	3.1	3.2	1.5	1.5
C25	Pancreas	502	460	962	17.9	14.5	8.7	7.2
C26	Other digestive organs	64	70	134	2.3	2.2	1.1	0.9
C30-34, C38	Respiratory organs	1 930	1755	3 685	67.8	55.3	31.5	27.6
C30-31	Nose, sinuses	25	22	47	0.9	0.7	0.4	0.3
C32	Larynx, epiglottis	108	15	123	3.7	0.5	1.9	0.3
C33-34	Lung, trachea	1786	1713	3 499	62.7	53.9	28.9	26.9
C38	Heart, mediastinum and pleura	11	5	16	0.5	0.2	0.2	0.1
C40-41	Bone	31	25	56	1.1	0.9	1.0	0.9
C43	Melanoma of the skin	1 279	1 164	2 443	45.6	39.1	24.4	23.6
C44	Skin, non-melanoma	1 669	1 428	3 097	63.9	43.3	23.1	17.1
C45	Mesothelioma	75	9	84	2.6	0.3	1.0	0.1
C47	Autonomic nervous system	5	6	11	0.2	0.2	0.2	0.4
C48-49	Soft tissues	53	48	101	1.9	1.6	1.4	1.1
C50	Breast	32	3 991	4 023	1.1	138.3	0.5	88.0
C51-58	Female genital organs		1777	1777		59.6		36.2
C51-52, C57.7-9	Other female genital		119	119		3.8		2.0
C53	Cervix uteri		345	345		12.6		9.6
C54	Corpus uteri		774	774		25.4		14.4
C55	Uterus, other		8	8		0.3		0.1
C56, C57.0-4, C48.2	Ovary etc.		531	531		17.5		10.1
C58	Placenta		0	0		0.0		0.0
C60-63	Male genital organs	5 564		5 5 6 4	192.4		102.9	
C61	Prostate	5 188		5 188	178.6		91.5	
C62	Testis	295		295	10.8		10.0	
C60, C63	Other male genital	81		81	2.9		1.4	
C64-68	Urinary organs	2 000	801	2 801	70.2	25.5	34.4	13.4
C64	Kidney (excl. renal pelvis)	624	306	930	21.4	10.0	12.5	5.9
C65-68	Urinary tract	1376	495	1871	48.8	15.5	21.9	7.5
C69	Eye	41	43	84	1.5	1.4	0.9	0.8
C70-72	Central nervous system	444	544	988	15.9	18.9	11.4	13.4
C73	Thyroid gland	163	364	527	5.7	13.2	3.9	9.9
C37, C74-75	Other endocrine glands	79	76	155	2.8	2.7	2.1	2.0
C39, C76, C80	Other or unspecified	172	184	356	6.6	5.6	2.6	2.2
C81-96	Lymphoid/haematopoietic tissue	1772	1 409	3 181	62.9	45.9	34.1	27.3
C81	Hodgkin lymphoma	73	69	142	2.6	2.5	2.0	2.3
C82-86, C96	Non-Hodgkin lymphoma	604	486	1 090	21.2	15.7	11.3	8.9
C88	Immunoproliferative disease	64	33	97	2.3	1.0	1.1	0.5
C90	Multiple myeloma	300	221	521	10.6	7.0	4.9	3.5
C91-95	Leukaemia	731	600	1331	26.2	19.7	14.9	12.1
0,1,75	ECONOCITIO	731	000	1 55 1	20.2	17.7	14.7	14.

5.2 Incidence by age

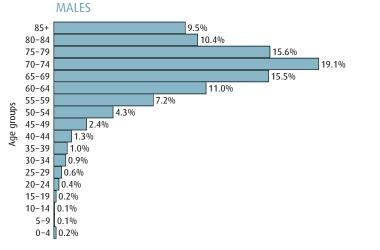
Most cancers in Norway, over 90% in men and 86% in women, are diagnosed among people aged 50 years or more (Figure 5.1). In men, 55% of all new cases occur in men at ages from 70 years or older, while 38% of the cases are diagnosed in those aged 50 to 69 years. In women, 49% of all cases are diagnosed at age 70 years or older, and 37% are diagnosed in the age group 50 to 69 years. In the age group 25 to 49 years, a smaller proportion of the cancers are diagnosed in men (6%) than in women (13%). About 1% of all cancers occurs in children and young adults (younger than 25 years), with equal frequencies in boys and girls.

Table 5.2 shows the median age at diagnosis at different time periods. For all sites combined, the median age at diagnosis is 70 years, and this has been stable over the last decades. However, there is some variation between the sites. Cancer in the autonomic nervous system, a very rare cancer, has the lowest median age at diagnosis (8.5 years). Among the more commons cancers, testis has the lowest median age at diagnosis (36 years). Non-melanoma skin cancer, on the other hand, has the highest median age (79 years). Moreover, the median age at diagnosis is 62 years for breast and 70 years for prostate cancer. For these two cancer sites there has been a reduction in median age at diagnosis with 4 and 5 years, respectively, in the latest period 2017–2021 compared to 1987–1991. For melanoma of the skin, me-

dian age at diagnosis has increased by 11 years during the same period. Changes in median age at diagnosis may be influenced by changes in the age distribution of the population, by diagnostic intensity and by the age-specific incidence rates at different periods. Thus, it might be difficult to interpret patterns and trends without information about these factors.

Figure 5.2 shows the most common cancer types by gender and age at diagnosis. The most commonly occurring cancers in boys and girls (0–14 years old) are leukaemia and tumours in the central nervous system. Testicular cancer is by far the most common cancer in young men (15-24 years) and is also the most common cancer in men aged 25-49 years. In young women, there is no single cancer standing out as the most common. Instead, thyroid gland, Hodgkin's lymphoma, skin melanoma and tumours in the central nervous system each make up 12-13% of the cases in this age group (15-24 years). Tumour in the central nervous system was previously the most common cancer among young girls (15-24 years) but has been bypassed by melanoma of the skin. Prostate cancer is the most frequent cancer in men above 50 years, while breast cancer is the most common cancer in women aged 25 through 69. For women above age 69 years, breast, colon, lung, and skin (nonmelanoma) cancers stand out as the most common one. Each of them makes up between 12–14% of all the cases in the oldest age group (70+ years).

Figure 5.1: Percentage distribution of cancer incidence by age, 2017–2021



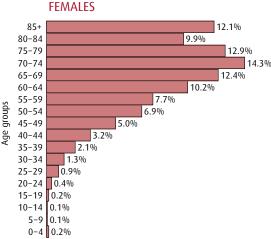


 Table 5.2: Median age at diagnosis at different time periods by primary site

ICD-10	Site	Median age in				
		1987-91	1997-01	2007-11	2017-21	
C00-96	All sites	70.0	70.0	68.0	70.0	
C00-14	Mouth, pharynx	68.0	66.0	65.0	67.0	
C00	Lip	72.0	72.5	73.0	75.0	
C02-06	Oral cavity	67.0	67.0	67.0	70.0	
C07-08	Salivary glands	67.0	67.0	64.0	67.0	
C09-10, C01, C14	Oropharynx	63.0	60.0	61.0	63.0	
C11	Nasopharynx	64.0	60.5	53.5	58.0	
C12-13	Hypopharynx	65.0	67.0	66.0	69.0	
C15-26	Digestive organs	72.0	74.0	72.0	72.0	
C15	Oesophagus	70.0	72.0	69.0	71.0	
C16	Stomach	74.0	75.0	74.0	73.0	
C17	Small intestine	69.0	69.0	67.0	69.0	
C18	Colon	72.0	74.0	74.0	74.0	
C19-20	Rectum, rectosigmoid	72.0	72.0	70.0	70.0	
C21	Anus	67.0	67.0	65.0	67.0	
C22	Liver	71.0	72.0	71.0	71.0	
C23-24	Gallbladder, bile ducts	73.0	74.0	73.0	73.0	
C25	Pancreas	73.0	75.0	73.0	73.0	
C26	Other digestive organs	79.0	78.0	75.0	74.0	
C30-34, C38	Respiratory organs	68.0	70.0	70.0	72.0	
C30-31	Nose, sinuses	71.0	69.5	66.0	70.0	
C32	Larynx, epiglottis	67.0	68.0	67.0	70.0	
C33-34	Lung, trachea	68.0	70.0	70.0	72.0	
C38	Heart, mediastinum and pleura	70.0	70.5	67.0	75.0	
C40-41	Bone	37.0	40.0	46.0	52.0	
C43	Melanoma of the skin	56.0	59.0	63.0	67.0	
C44	Skin, non-melanoma	76.0	77.0	79.0	79.0	
C45	Mesothelioma	67.5	70.0	72.0	75.0	
C47	Autonomic nervous system	31.0	34.0	28.0	8.5	
C48-49	Soft tissues	63.0	65.0	62.5	63.5	
C50	Breast	66.0	61.0	61.0	62.0	
C51-58	Female genital organs	63.0	63.0	64.0	66.0	
C51-52, C57.7-9	Other female genital	73.0	75.0	74.0	73.0	
C53	Cervix uteri	51.0	48.0	46.0	46.0	
C54	Corpus uteri	65.0	66.0	66.0	69.0	
(55	Uterus, other	82.0	78.5	79.0	79.0	
C56, C57.0-4, C48.2	Ovary etc.	65.0	65.0	65.0	68.0	
C58	Placenta	26.0	29.0	31.0	33.0	
C60-63	Male genital organs	74.0	72.0	68.0	69.0	
C61	Prostate	75.0	73.0	69.0	70.0	
C62	Testis	32.0	33.0	35.0	36.0	
C60, C63	Other male genital	69.0	72.0	67.0	71.0	
C64-68	Urinary organs	71.0	72.0	71.0	71.0 72.0	
C64	Kidney (excl. renal pelvis)	69.0	70.0	67.0	67.0	
C65-68	Urinary tract	72.0	73.0	73.0	73.0	
C69	Eye	65.5	67.0	64.0	65.0	
C70-72	Central nervous system	59.0	58.0	59.0	61.0	
C73	Thyroid gland	54.0	53.0	52.0	54.0	
	Other endocrine glands	50.0	51.0	54.0	54.0 58.0	
(37, (74-75	Other or unspecified					
C39, C76, C80		74.0	77.0	79.0	79.0	
C81-96	Lymphoid/haematopoietic tissue	68.0	70.0	68.0	70.0	
C81	Hodgkin lymphoma	40.0	34.0	38.0	45.0	
C82-86, C96	Non-Hodgkin lymphoma	67.0	67.0	66.0	70.0	
C88	Immunoproliferative disease	71.0	72.0	71.0	74.0	
(0)	Multiple myeloma	72.0	73.0	72.0	72.0	
C91-95	Leukaemia	70.0	71.0	70.0	71.0	

Figure 5.2: The most frequent types of cancer by age and sex, 2017–2021

Figure 5.2-A: All ages

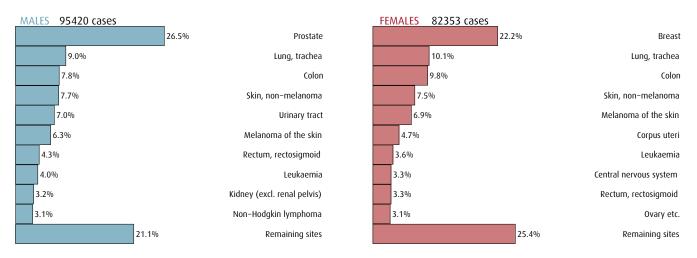


Figure 5.2-B: 0-14 years

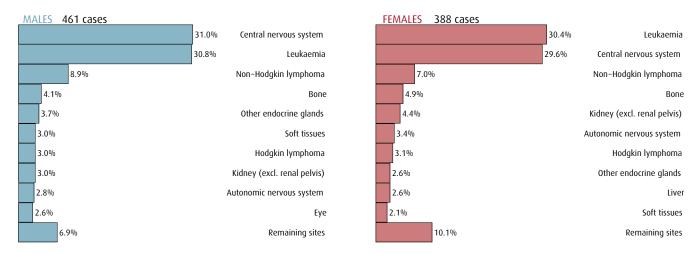


Figure 5.2-C: 15-24 years

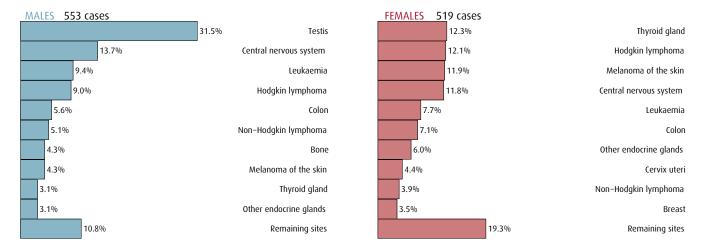


Figure 5.2: The most frequent types of cancer by age and sex, 2017-2021

Figure 5.2-D: 25-49 years

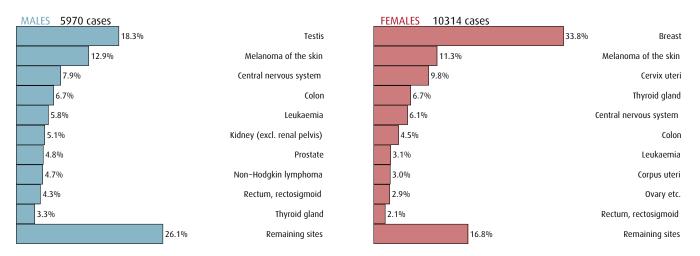


Figure 5.2-E: 50-69 years

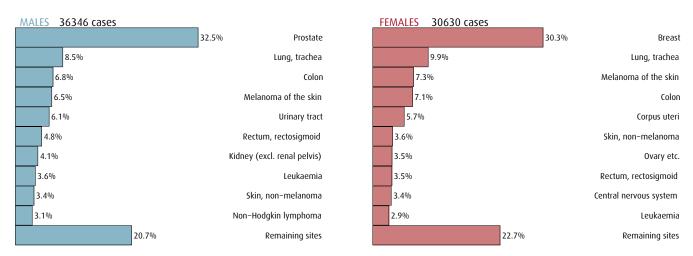
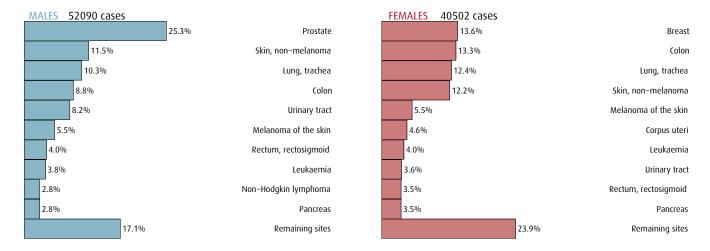


Figure 5.2-F: 70+ years



5.3 Male to female ratios

The age-standardised rates and male to female ratio (M:F) for selected cancer types in 1987–1991 and 2017–2021 are shown in Table 5.3. Men tend to have higher incidence rates for most cancer types in both time periods, except for cancer of thyroid gland, anus, and central nervous system. The highest M:F ratios were

observed for mesothelioma, several sites of the head and neck and for cancers in the urinary tract.

The decline in the M:F ratio for several cancers over the last 30 years is largely a result of a more rapid increase in the incidence rates in women. For lung cancer, the increase in rate in women has been accompanied by a levelling off and a slight decline in the rate in men, and the M:F ratio is now at 1.2 compared to 3.0 in the late 1980s.

Table 5.3: Sex ratio (male:female) of age-adjusted rates (Norwegian standard) in 1987–1991 and 2017–2021 for selected cancers, sorted in descending order in last period

			1987-9	1	2017-21		
ICD-10	Site	М	F	M:F ratio	М	F	M:F ratio
C00-96	All sites	536.4	393.7	1.4	712.6	560.0	1.3
C12-13	Hypopharynx	1.5	0.3	5.0	0.9	0.1	6.3
C45	Mesothelioma	2.1	0.3	6.4	2.6	0.5	5.5
C32	Larynx, epiglottis	6.0	0.5	11.2	3.3	0.7	5.1
C38	Heart, mediastinum and pleura	0.4	0.2	2.0	0.5	0.1	3.8
C65-68	Urinary tract	44.2	11.7	3.8	50.2	15.0	3.4
C15	Oesophagus	6.0	1.7	3.5	9.2	2.8	3.3
C09-10, C01, C14	Oropharynx	1.9	0.6	3.3	6.6	2.2	3.1
C64	Kidney (excl. renal pelvis)	14.5	8.1	1.8	22.5	9.9	2.3
C11	Nasopharynx	0.6	0.2	3.6	0.4	0.2	2.2
C22	Liver	3.5	1.8	2.0	8.8	4.3	2.1
C88	Immunoproliferative disease	0.5	0.3	1.5	2.2	1.1	2.0
C16	Stomach	30.7	14.7	2.1	10.2	5.8	1.8
C30-31	Nose, sinuses	1.3	0.6	2.1	1.0	0.6	1.7
C90	Multiple myeloma	9.1	5.8	1.6	11.3	7.1	1.6
C19-20	Rectum, rectosigmoid	30.5	18.5	1.6	30.1	18.3	1.6
C00	Lip	5.0	0.9	5.6	2.1	1.4	1.6
C44	Skin, non-melanoma	24.6	13.1	1.9	59.7	39.1	1.5
C48-49	Soft tissues	2.3	2.2	1.1	2.5	1.8	1.4
C82-86, C96	Non-Hodgkin lymphoma	14.9	11.1	1.3	21.7	15.5	1.4
C02-06	Oral cavity	4.7	2.6	1.9	4.6	3.3	1.4
C17	Small intestine	1.5	1.4	1.0	4.7	3.3	1.4
C40-41	Bone	1.0	0.6	1.5	1.2	0.8	1.4
C91-95	Leukaemia	13.4	8.5	1.6	29.0	20.3	1.4
C81	Hodgkin lymphoma	2.5	1.5	1.6	3.0	2.3	1.3
C25	Pancreas	17.1	12.1	1.4	18.6	14.1	1.3
C07-08	Salivary glands	1.0	0.6	1.7	1.4	1.0	1.3
C33-34	Lung, trachea	64.0	21.2	3.0	63.7	54.5	1.2
C47	Autonomic nervous system	0.4	0.4	1.0	0.2	0.2	1.1
C69	Eye	1.2	1.1	1.1	1.6	1.4	1.1
C43	Melanoma of the skin	21.1	21.6	1.0	44.9	39.7	1.1
C18	Colon	44.9	38.7	1.2	56.6	52.5	1.1
C26	Other digestive organs	2.3	2.7	0.9	2.4	2.1	1.1
C39, C76, C80	Other or unspecified	16.7	12.3	1.4	6.3	5.8	1.1
C37, C74-75	Other endocrine glands	2.2	1.9	1.2	3.3	3.3	1.0
C23-24	Gallbladder, bile ducts	2.9	3.2	0.9	3.0	2.9	1.0
C70-72	Central nervous system	12.8	12.5	1.0	16.9	19.3	0.9
C21	Anus	0.6	1.4	0.4	1.3	2.3	0.6
C73	Thyroid gland	2.7	6.4	0.4	5.1	12.3	0.4

5.4 Incidence trends

Figure 5.3: Time trends in age-standardised (Norwegian standard) incidence rates for selected cancers, 1953–2021

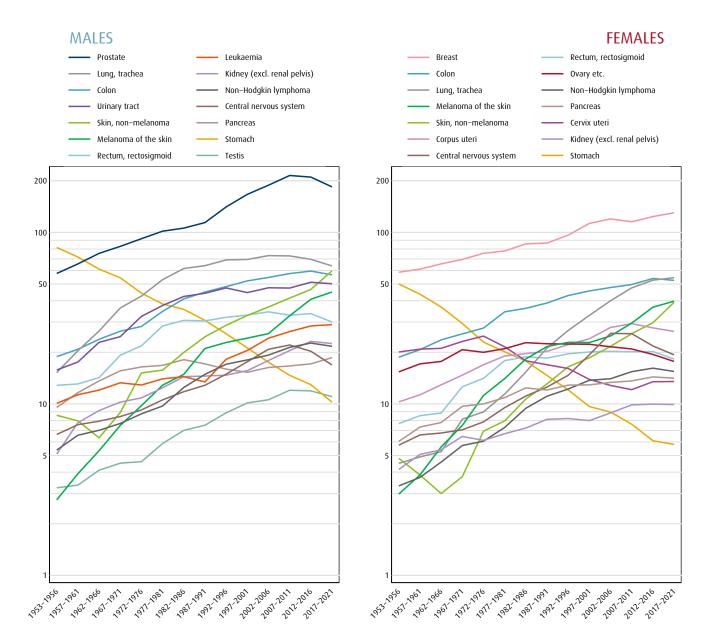


Figure 5.3 depicts time trends in incidence over seven decades for some selected cancers. The incidence rates have increased in Norway for most cancer types since the first observation period. The upward trends have been most pronounced for lung cancer among women and skin cancer (melanoma and non-melanoma) in both sexes. Stomach cancer is the only cancer that has had a sharp and steady decline in incidence since early 1950s. The rate for cervical cancer also declined from mid 1970s to late 1990s but has then after been followed by more stable rates and even had a slight increase for some few years in the last decade.

For most cancers, it is difficult to give a proper explanation of the incidence trends over time, even for can-

cers with known risk factors. Rates may also be influenced by diagnostic methods, screening activities, and changes in life expectancy or age distribution. Below we have given a short description of the trends for selected sites and listed some known factors that most possibly have influenced the trends.

Stomach cancer is the only cancer that has had a sharp and consistent decline. In the first observation period, stomach cancer was the most common cancer in men and second most common cancer in women, in line with observations of cancer mortality reported by Norwegian general practitioners one hundred years ago^[22]. The monotonous drop in incidence from 1953 until today reflects improvement in hygiene and environmental ex-

posures. Changes in the prevalence of *Helicobacter pylori* infection and in dietary habits (refrigerators) are likely contributors to this trend. The decline illustrates the vast potential for primary prevention worldwide. Interestingly, the causes of stomach cancer were not adequately known until the 1980s, and the waning of the rates has been a chance phenomenon rather than an intended one.

Prostate cancer has been the most common cancer in men for many decades, and the age-standardised incidence rate has tripled since registration started in the early 1950s. A dramatic upsurge came from around 1990 with changes in diagnostic practice with unorganised screening and testing in the primary health care system. The introduction and subsequent widespread use of the Prostate Specific Antigen (PSA) test, followed by biopsies, are considered the main explanation for the increased rate. The rate is now on the decline.

Breast cancer has been the most common cancer in women since the establishment of the Cancer Registry of Norway, and during this period the incidence rate has doubled. There has been a monotonous increase in the rate up to 1990s with a steeper increase in the mid-1990s followed by a slight decline between 2005 and 2009. The Norwegian Breast Cancer Screening Programme started in 1996, and gradually expanded to become nationwide by 2005. The programme invites women aged 50–69 years to biennial mammography. The implementation of the screening programme explains much of the increasing incidence trend from the mid-1990s to 2005. There has been a slight increase in the last ten years, and age-specific rates (not shown) indicate that the increase is primarily limited to the age group 60–79 years.

Lung cancer in women has almost had a ten folded incidence increase since early 1950s. We have observed signs of a stabilisation in the rate during recent years. However, the rate reached an all-time high level in 2018 (details are shown in Table 5.8). It is too early to decide whether 2018 represents a turning point, but it is interesting to note that the lung cancer rates seem to decline for all age groups below 80. In men, the incidence has been levelling off over the last two decades (Table 5.7), and a slight overall decline is now observed in all age groups.

Colon and rectum cancer incidence rates are sometimes presented combined. However, the incidence trends for these cancers differ — colon cancer has increased steadily throughout the registration period. Fortunately, we

are now seeing a decline among men, and a flattening among women. The incidence of rectal cancer has remained relatively stable over the last three decades in both sexes, and a decline is seen in the last few years.

Skin cancer i.e. skin melanoma and non-melanoma are cancers of concern. From being rare in 1953, they now rank among the leading cancers in men and women alike. The rates have had a remarkable increase, especially in the oldest age groups (above 70 years) (Table 5.7 and 5.8) most probably caused by adverse suntanning habits, but might also be influenced by other factors including awareness and diagnostic intensity.

Cervical cancer has had a downward incidence trend since the early 1970s. This is probably a result of identification and treatment of premalignant conditions as part of an organised screening programme. In 2009, vaccination against human papilloma virus (HPV) was introduced as part of the Norwegian Childhood Immunisation Programme for girls born in 1997 and after. A catch-up program was implemented in November 2016. In 2018, the programme also offered vaccination to boys. Still, we do not expect this primary prevention to affect the incidence rate for another 15 to 20 years. Furthermore, the worrying increase in cervical cancer, as we reported in the previous issue, has flattened out.

The incidence rates of **tumours in the central nervous system** in both sexes have declined in recent years. We believe that this is due to underreporting, and as shown in Tables 5.23–5.24 the reduction in rates is limited to non-malignant cases.

For **testicular cancer** and **non-Hodgkin lymphoma**, for example, genetic factors play a role, while other determinants are largely unknown.

Even if rates were to remain stable over the next 15 years, the number of new cases would increase as a result of the joint effects of population growth and aging. The NORDCAN project provides online access to predictions of incidence and mortality in the Nordic countries available at:

http://www-dep.iarc.fr/nordcan.htm

Trends in cancer incidence for all sites are given in Tables 5.15–5.16, and detailed trends in incidence, mortality and survival for 23 cancers are provided in Chapter 9.

5.5 Cumulative risk

Figure 5.4 and Table 5.4 show the cumulative risk of cancer in men and women. About four in ten Norwegians will develop a cancer before the age of 80. The risk of prostate cancer is the highest in men, as 16% will have a diagnosis by the age of 80. The risk of breast cancer is the highest in women, with 10.5%, indicating that one in ten Norwegian women will be diagnosed with the disease before turning 80. In both gender, lung and colon cancer rank second and third.

5.6 Incidence by county of residence

There has been a reform of the county structure in Norway, and the original 19 counties are now reduced to 11. The new county Viken is by far the most populous county and covers 23% of the Norwegian population. Nordland, on the other hand, has the lowest number of inhabitants and covers 4% of the population. Four of the original counties were not affected by reform, and one of these, Rogaland, had, and still has, the highest incidence

of cancer (all sites combined) for both men and women. Some of the original counties had clear differences in the cancer incidence, and the merging of counties makes it difficult to keep up with some interesting trends, e.g. the lung cancer rates in men in the former county Finnmark, which has had the highest rate of lung cancer for several decades (Tables 5.17–5.20).

Digital maps are available online at:

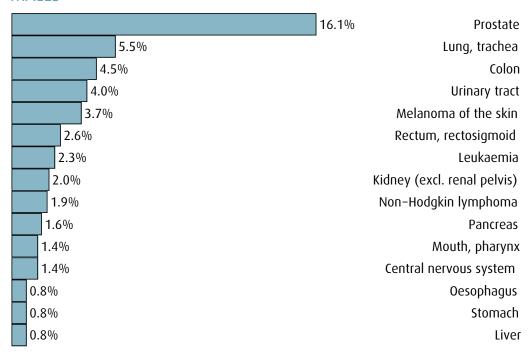
https://www.kreftregisteret.no/ Registrene/data-og-statistikk/ statistikkbank/

5.7 Incidence tables

Tables 5.5–5.28 provide further information on cancer incidence in Norway. The number of incident cases and rates are tabulated according to year of diagnosis (Tables 5.5–5.8), age group (Tables 5.9–5.12), five-year period (Tables 5.13–5.16), county of residence (Tables 5.17–5.20), stage (Tables 5.21–5.24), and continent of birth (Tables 5.25–5.28).

Figure 5.4: Cumulative risk of developing cancer (%) by the age of 80 for selected cancers, 2017–2021

MALES



FEMALES

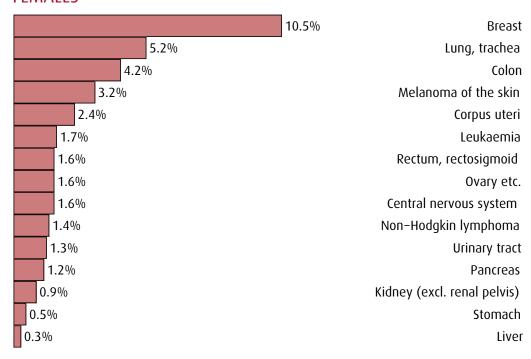


Table 5.4: Cumulative risk of developing cancer (%) by age of 80 by primary site and sex, 2017–2021

ICD-10	Site	Males	Females
C00-96	All sites	45.5	37.6
C00-14	Mouth, pharynx	1.4	0.7
C00	Lip	0.2	0.1
C02-06	Oral cavity	0.4	0.3
C07-08	Salivary glands	0.1	0.1
C09-10, C01, C14	Oropharynx	0.6	0.2
C11	Nasopharynx	0.0	0.0
C12-13	Hypopharynx	0.1	0.0
C15-26	Digestive organs	11.4	8.6
C15	Oesophagus	0.8	0.2
C16	Stomach	0.8	0.5
C17	Small intestine	0.4	0.3
C18	Colon	4.5	4.2
C19-20	Rectum, rectosigmoid	2.6	1.6
C21	Anus	0.1	0.2
C22	Liver	0.8	0.3
C23-24	Gallbladder, bile ducts	0.2	0.2
C25 24	Pancreas	1.6	1.2
C26	Other digestive organs	0.2	0.2
C30-34, C38	Respiratory organs	5.9	5.3
C30-34, C38	• • •		
	Nose, sinuses	0.1	0.0
C32	Larynx, epiglottis	0.3	0.1
C33-34	Lung, trachea	5.5	5.2
C38	Heart, mediastinum and pleura	0.0	0.0
C40-41	Bone	0.1	0.1
C43	Melanoma of the skin	3.7	3.2
C44	Skin, non-melanoma	3.6	2.5
C45	Mesothelioma	0.2	0.0
C47	Autonomic nervous system	0.0	0.0
C48-49	Soft tissues	0.2	0.2
C50	Breast	0.1	10.5
C51-58	Female genital organs		5.2
C51-52, C57.7-9	Other female genital		0.3
C53	Cervix uteri		1.1
C54	Corpus uteri		2.4
C55	Uterus, other		0.0
C56, C57.0-4, C48.2	Ovary etc.		1.6
C58	Placenta		0.0
C60-63	Male genital organs	16.9	
C61	Prostate	16.1	
C62	Testis	0.8	
C60, C63	Other male genital	0.2	
C64-68	Urinary organs	6.0	2.2
C64	Kidney (excl. renal pelvis)	2.0	0.9
C65-68	Urinary tract	4.0	1.3
C69	Eye	0.1	0.1
C70-72	Central nervous system	1.4	1.6
C73	Thyroid gland	0.4	1.0
C37, C74-75	Other endocrine glands	0.3	0.3
C39, C76, C80	Other or unspecified	0.4	0.3
C81-96	Lymphoid/haematopoietic tissue	5.5	3.9
C81-96	Hodgkin lymphoma	0.3	0.2
C82-86, C96	Non-Hodgkin lymphoma	1.9	1.4
C88	Immunoproliferative disease	0.2	0.1
	Multiple myeloma	1.0	0.6
C90 C91-95	Leukaemia	2.3	1.7

 Table 5.5: Number of new cases by primary site and year, 2012–2021, males

						Ye	ear				
ICD-10	Site	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
C00-96	All sites	16 783	16 828	17 470	18 099	18 572	18 550	18716	19 066	19 404	19 684
C00-14	Mouth, pharynx	361	337	404	400	409	392	431	425	459	477
C00	Lip	62	48	62	58	51	51	51	53	65	57
C02-06	Oral cavity	108	112	115	118	123	123	138	115	122	123
C07-08	Salivary glands	30	28	45	36	43	28	43	27	38	46
C09-10, C01, C14	Oropharynx	132	126	148	159	161	155	175	197	189	204
C11	Nasopharynx	14	8	11	7	8	11	12	10	11	16
C12-13	Hypopharynx	15	15	23	22	23	24	12	23	34	31
C15-26	Digestive organs	3 3 2 9	3 443	3 490	3 646	3 717	3 686	3 883	3 834	4 031	3 898
C15	Oesophagus	175	200	225	224	214	214	243	235	296	255
C16	Stomach	286	307	307	297	309	289	244	291	289	227
C17	Small intestine	105	90	98	106	117	122	110	128	146	134
C18	Colon	1302	1336	1367	1 432	1 451	1 462	1 5 1 2	1 462	1512	1 5 1 7
C19-20	Rectum, rectosigmoid	752	802	813	798	845	800	847	785	835	808
C21	Anus	23	16	29	22	34	34	28	43	38	37
C22	Liver	138	179	147	185	195	192	226	241	258	266
C23-24	Gallbladder, bile ducts	86	96	72	81	85	65	86	80	83	88
C25	Pancreas	407	364	384	443	409	441	508	517	524	502
C26	Other digestive organs	55	53	48	58	58	67	79	52	50	64
C30-34, C38	Respiratory organs	1784	1721	1 782	1749	1832	1862	1821	1788	1844	1930
C30-31	Nose, sinuses	32	35	30	15	25	28	24	27	29	25
C32	Larynx, epiglottis	99	105	115	88	86	72	107	85	83	108
C33-34	Lung, trachea	1 643	1573	1627	1 639	1704	1747	1 680	1663	1719	1 786
C38	Heart, mediastinum and pleura	10	8	10	7	17	15	10	13	13	11
C40-41	Bone	33	18	30	33	31	27	35	43	28	31
C43	Melanoma of the skin	897	851	1 040	1 045	1 082	1 173	1 178	1215	1 183	1279
C44	Skin, non-melanoma	895	916	1 013	1 063	1 115	1 278	1345	1 486	1561	1 669
C45	Mesothelioma	66	78	58	69	62	75	54	82	54	75
C47	Autonomic nervous system	5	5	7	4	2	8	8	3	2	5
C48-49	Soft tissues	82	79	63	70	57	72	60	84	63	53
C50	Breast	27	35	24	24	31	33	28	27	31	32
C60-63	Male genital organs	5 289	5 2 6 2	5 3 4 8	5 5 4 0	5 686	5 458	5 3 2 2	5 3 5 8	5 413	5 5 6 4
C61	Prostate	4924	4 883	4964	5 188	5 309	5 104	4 935	4 990	5 072	5 188
C62	Testis	322	332	325	292	290	290	321	303	285	295
C60, C63	Other male genital	43	47	59	60	87	64	66	65	56	81
C64-68	Urinary organs	1606	1626	1755	1834	1911	1877	1889	1971	2 002	2 000
C64	Kidney (excl. renal pelvis)	538	538	581	582	610	587	638	648	598	624
C65-68	Urinary tract	1068	1 088	1174	1 252	1301	1 290	1 251	1323	1 404	1376
C69	Eye	29	34	49	42	40	42	43	40	47	41
C70-72	Central nervous system	538	511	536	507	435	489	465	443	439	444
C73	Thyroid gland	92	105	115	105	141	136	120	146	135	163
C37, C74-75	Other endocrine glands	148	119	127	94	116	88	94	98	91	79
C39, C76, C80	Other or unspecified	130	154	162	158	147	124	155	155	169	172
C81-96	Lymphoid/haematopoietic tissue	1472	1534	1 467	1716	1758	1730	1785	1868	1852	1772
C81	Hodgkin lymphoma	85	72	79	109	91	94	92	68	94	73
C82-86, C96	Non-Hodgkin lymphoma	512	531	523	587	572	525	579	626	598	604
C88	Immunoproliferative disease	52	39	41	47	53	48	51	60	64	64
C90	Multiple myeloma	211	240	210	260	268	300	285	303	331	300
C91-95	Leukaemia	612	652	614	713	774	763	778	811	765	731

 Table 5.6: Number of new cases by primary site and year, 2012–2021, females

						Ye	ear				
ICD-10	Site	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
C00-96	All sites	13 832	14 281	15 066	15 554	15 701	15 813	16 189	16 581	16 456	17 314
C00-14	Mouth, pharynx	186	191	216	224	242	255	238	229	233	260
C00	Lip	37	41	31	45	46	51	34	47	36	45
C02-06	Oral cavity	67	83	98	80	108	92	108	82	102	109
C07-08	Salivary glands	17	18	27	39	29	40	29	27	24	33
C09-10, C01, C14	Oropharynx	52	38	43	55	49	60	56	63	62	66
C11	Nasopharynx	6	6	8	3	6	9	5	5	3	5
C12-13	Hypopharynx	7	5	9	2	4	3	6	5	6	2
C15-26	Digestive organs	2 933	3 022	3 130	3 256	3 200	3 241	3 222	3 232	3 3 6 0	3 430
C15	Oesophagus	72	63	71	77	72	76	80	87	96	89
C16	Stomach	182	166	189	168	152	194	165	170	181	166
C17	Small intestine	62	50	78	78	75	108	80	83	108	111
C18	Colon	1 420	1 461	1 475	1579	1 647	1 5 7 2	1596	1 578	1 625	1 687
C19-20	Rectum, rectosigmoid	500	579	575	579	536	538	536	545	559	538
C21	Anus	49	61	71	62	81	55	68	74	68	69
C22	Liver	81	83	89	105	116	121	119	129	139	138
C23-24	Gallbladder, bile ducts	104	104	109	83	77	83	69	93	97	102
C25	Pancreas	396	391	399	452	382	419	452	405	433	460
C26	Other digestive organs	67	64	74	73	62	75	57	68	54	70
C30-34, C38	Respiratory organs	1359	1 382	1 507	1 577	1 5 6 4	1 593	1734	1731	1678	1 755
C30-31	Nose, sinuses	19	20	19	22	15	10	17	20	19	22
C32	Larynx, epiglottis	19	21	20	20	23	18	24	20	18	15
C33-34	Lung, trachea	1317	1336	1 463	1529	1 521	1561	1689	1 686	1639	1713
C38	Heart, mediastinum and pleura	4	5	5	6	5	4	4	5	2	5
C40-41	Bone	15	25	29	27	28	27	24	20	19	25
C43	Melanoma of the skin	893	899	1 012	1 001	1 061	1 063	1167	1 135	1 165	1164
C44	Skin, non-melanoma	791	823	928	849	1016	1 046	1 127	1 257	1346	1 428
C45	Mesothelioma	16	11	11	13	14	15	14	15	18	9
C47	Autonomic nervous system	0	6	8	7	2	4	2	4	6	6
C48-49	Soft tissues	50	52	48	59	53	43	51	59	55	48
C50	Breast	2 936	3 183	3 323	3 421	3 392	3 588	3 561	3 717	3 430	3 991
C51-58	Female genital organs	1 590	1 665	1 756	1848	1817	1711	1839	1 893	1735	1 777
C51-52, C57.7-9	Other female genital	107	104	129	118	125	125	136	117	120	119
C53	Cervix uteri	312	291	358	391	367	332	381	393	355	345
C54	Corpus uteri	650	769	735	787	787	710	804	834	770	774
C55	Uterus, other	6	7	12	7	9	8	11	10	6	8
C56, C57.0-4, C48.2	Ovary etc.	511	492	520	543	525	535	504	536	482	531
C58	Placenta	4	2	2	2	4	1	3	3	2	0
C64-68	Urinary organs	672	682	655	780	785	733	747	721	744	801
C64	Kidney (excl. renal pelvis)	263	233	237	315	298	293	279	276	301	306
C65-68	Urinary tract	409	449	418	465	487	440	468	445	443	495
C 69	Eye	31	45	45	41	30	42	42	46	31	43
C70-72	Central nervous system	612	566	582	559	538	610	486	536	543	544
C73	Thyroid gland	229	249	253	265	327	295	303	316	381	364
C37, C74-75	Other endocrine glands	120	142	122	120	98	98	96	93	84	76
C39, C76, C80	Other or unspecified	169	185	186	162	189	154	179	188	214	184
C81-96	Lymphoid/haematopoietic tissue	1 230	1 153	1 255	1345	1 345	1 295	1 357	1 389	1 414	1 409
C81	Hodgkin lymphoma	62	55	59	56	77	45	61	78	54	69
	Non-Hodgkin lymphoma	452	406	443	451	443	429	458	471	460	486
C82-86, C96											
C82-86, C96 C88	Immunoproliferative disease	32	35	37	21	20	35	32	32	37	33
				37 199	21 213	20 199	35 196	32 210	32 223	37 231	33 221

Table 5.7: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and year, 2012–2021, **males**

						Ye	ear				
ICD-10	Site	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
C00-96	All sites	741.9	725.7	737.6	746.7	749.4	730.4	715.9	714.4	704.2	698.9
C00-14	Mouth, pharynx	15.4	14.1	16.5	16.0	16.1	15.0	16.2	15.7	16.5	16.8
C00	Lip	2.9	2.1	2.7	2.5	2.2	2.0	2.0	2.1	2.5	2.0
C02-06	Oral cavity	4.7	4.7	4.7	4.6	4.9	4.7	5.2	4.2	4.4	4.3
C07-08	Salivary glands	1.3	1.2	1.9	1.5	1.8	1.0	1.6	1.1	1.4	1.7
C09-10, C01, C14	Oropharynx	5.4	5.1	5.8	6.2	6.1	5.8	6.4	7.1	6.6	7.1
C11	Nasopharynx	0.6	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.4	0.6
C12-13	Hypopharynx	0.6	0.6	0.9	0.9	0.8	0.9	0.4	0.8	1.2	1.1
C15-26	Digestive organs	149.0	150.0	149.0	152.0	150.6	146.2	149.4	143.6	145.8	140.0
C15	Oesophagus	7.6	8.7	9.5	9.1	8.6	8.4	9.3	8.6	10.4	9.1
C16	Stomach	12.9	13.4	13.2	12.7	12.6	11.6	9.7	11.1	10.6	8.4
C17	Small intestine	4.6	3.8	4.1	4.3	4.6	4.7	4.1	4.7	5.3	4.8
C18	Colon	58.8	59.1	59.6	60.4	59.5	58.9	58.4	55.6	55.2	55.1
C19-20	Rectum, rectosigmoid	33.5	34.2	34.0	32.8	33.6	30.9	32.1	29.0	30.1	28.4
C21	Anus	1.0	0.7	1.2	0.9	1.4	1.3	1.1	1.6	1.4	1.3
C22	Liver	6.0	7.7	6.1	7.6	7.9	7.6	8.7	9.0	9.2	9.5
C23-24	Gallbladder, bile ducts	3.9	4.2	3.0	3.4	3.4	2.6	3.3	3.0	3.0	3.1
C25	Pancreas	18.2	15.9	16.3	18.4	16.7	17.6	19.6	19.1	18.8	17.9
C26	Other digestive organs	2.5	2.3	2.1	2.4	2.4	2.7	3.2	2.0	1.8	2.3
C30-34, C38	Respiratory organs	79.7	74.7	76.1	72.5	74.3	73.3	69.2	66.7	66.1	67.8
C30-31	Nose, sinuses	1.4	1.5	1.3	0.6	1.0	1.1	0.9	1.0	1.0	0.9
C32	Larynx, epiglottis	4.3	4.5	4.8	3.6	3.4	2.8	4.1	3.2	2.9	3.7
C33-34	Lung, trachea	73.5	68.4	69.5	68.0	69.1	68.8	63.8	61.9	61.6	62.7
C38	Heart, mediastinum and pleura	0.5	0.3	0.4	0.3	0.8	0.6	0.4	0.6	0.5	0.5
C40-41	Bone	1.3	0.7	1.2	1.3	1.2	1.0	1.3	1.6	1.0	1.1
C43	Melanoma of the skin	38.9	36.0	43.3	42.3	42.8	46.0	45.1	45.4	42.7	45.6
C44	Skin, non-melanoma	43.2	43.6	47.0	48.2	50.2	55.4	56.6	60.7	61.1	63.9
C45	Mesothelioma	3.0	3.5	2.5	3.0	2.5	3.0	2.0	3.2	2.0	2.6
C47	Autonomic nervous system	0.2	0.2	0.3	0.2	0.1	0.3	0.3	0.1	0.1	0.2
C48-49	Soft tissues	3.5	3.3	2.6	2.9	2.3	2.7	2.3	3.2	2.3	1.9
C50	Breast	1.2	1.5	1.0	1.1	1.3	1.3	1.1	1.0	1.1	1.1
C60-63	Male genital organs	230.2	223.3	221.9	223.6	224.6	210.0	198.6	196.5	192.6	192.4
C61	Prostate	215.8	208.4	207.0	210.1	210.2	196.6	184.2	182.9	180.1	178.6
C62	Testis	12.6	12.8	12.4	11.0	10.9	10.8	11.9	11.2	10.5	10.8
C60, C63	Other male genital	1.8	2.1	2.6	2.4	3.5	2.6	2.5	2.5	2.1	2.9
C64-68	Urinary organs	71.6	70.6	74.7	76.7	77.8	74.3	72.2	73.8	72.9	70.2
C64	Kidney (excl. renal pelvis)	22.8	22.4	23.5	23.3	23.8	22.4	23.6	23.6	21.4	21.4
C65-68	Urinary tract	48.7	48.2	51.2	53.4	54.1	51.8	48.6	50.2	51.5	48.8
C69	Eye	1.2	1.4	2.0	1.7	1.6	1.6	1.6	1.5	1.7	1.5
C70-72	Central nervous system	22.5	20.7	21.5	20.0	16.9	18.7	17.4	16.4	16.1	15.9
C73	Thyroid gland	3.8	4.3	4.6	4.1	5.5	5.1	4.4	5.3	4.9	5.7
C37, C74-75	Other endocrine glands	6.1	4.9	5.0	3.6	4.5	3.3	3.5	3.6	3.3	2.8
C39, C76, C80	Other or unspecified	6.2	7.3	7.3	7.0	6.5	5.3	6.5	6.4	6.7	6.6
C81-96	Lymphoid/haematopoietic tissue	64.9	65.6	61.2	70.6	70.6	67.8	68.2	69.8	67.4	62.9
C81	Hodgkin lymphoma	3.4	2.8	3.1	4.2	3.4	3.5	3.4	2.4	3.4	2.6
C82-86, C96	Non-Hodgkin lymphoma	22.4	22.4	21.8	23.9	22.7	20.5	21.8	23.2	21.5	21.2
C88	Immunoproliferative disease	2.3	1.6	1.7	1.9	2.2	1.9	2.0	2.2	2.3	2.3
C90	Multiple myeloma	9.6	10.7	8.8	10.9	10.9	11.9	11.1	11.1	11.9	10.6
C91-95	Leukaemia	27.1	28.1	25.9	29.7	31.4	30.0	29.8	30.8	28.3	26.2

Table 5.8: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and year, 2012–2021, **females**

						Ye	ear				
ICD-10	Site	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
C00-96	All sites	525.5	534.4	555.7	565.1	560.5	555.9	559.9	565.7	549.2	569.0
C00-14	Mouth, pharynx	6.9	7.1	8.0	8.1	8.7	8.8	8.2	7.8	7.6	8.5
C00	Lip	1.3	1.5	1.1	1.5	1.6	1.7	1.1	1.5	1.1	1.4
C02-06	Oral cavity	2.5	3.1	3.6	2.8	3.9	3.1	3.7	2.8	3.2	3.5
C07-08	Salivary glands	0.6	0.7	1.0	1.4	1.0	1.4	1.0	0.9	8.0	1.1
C09-10, C01, C14	Oropharynx	2.0	1.5	1.7	2.1	1.8	2.2	2.0	2.3	2.1	2.3
C11	Nasopharynx	0.2	0.2	0.3	0.1	0.2	0.3	0.2	0.2	0.1	0.2
C12-13	Hypopharynx	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.2	0.2	0.1
C15-26	Digestive organs	108.3	109.9	112.3	114.8	110.9	110.4	108.1	106.7	108.5	108.6
C15	Oesophagus	2.7	2.3	2.6	2.7	2.5	2.6	2.7	2.8	3.1	2.8
C16	Stomach	6.7	6.0	6.8	5.8	5.3	6.6	5.6	5.7	5.9	5.3
C17	Small intestine	2.3	1.9	2.8	2.9	2.7	3.8	2.8	2.8	3.6	3.6
C18	Colon	52.4	52.5	52.6	55.3	56.6	53.2	53.0	51.8	51.9	52.9
C19-20	Rectum, rectosigmoid	18.7	21.5	21.0	20.9	19.0	18.7	18.3	18.3	18.6	17.4
C21	Anus	1.9	2.3	2.7	2.3	3.0	1.9	2.4	2.6	2.3	2.3
C22	Liver	2.9	3.1	3.2	3.7	4.1	4.1	4.1	4.2	4.6	4.4
C23-24	Gallbladder, bile ducts	3.9	3.8	3.9	2.9	2.7	2.8	2.3	3.1	3.1	3.2
C25	Pancreas	14.5	14.2	14.3	15.7	13.1	14.2	15.1	13.1	13.7	14.5
C26	Other digestive organs	2.4	2.3	2.5	2.6	2.2	2.5	1.9	2.2	1.7	2.2
C30-34, C38	Respiratory organs	51.9	51.9	55.5	56.9	55.0	54.8	58.3	57.0	53.8	55.3
C30-31	Nose, sinuses	0.7	0.7	0.7	8.0	0.5	0.4	0.6	0.7	0.6	0.7
C32	Larynx, epiglottis	0.7	0.8	0.7	0.7	0.8	0.6	0.9	0.7	0.6	0.5
C33-34	Lung, trachea	50.4	50.2	53.9	55.2	53.5	53.7	56.7	55.5	52.5	53.9
C38	Heart, mediastinum and pleura	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2
C40-41	Bone	0.6	0.9	1.1	1.0	1.1	1.0	0.9	0.7	0.7	0.9
C43	Melanoma of the skin	34.8	34.3	38.0	37.2	38.7	38.5	41.3	39.7	40.1	39.1
C44	Skin, non-melanoma	27.5	28.0	31.4	28.4	33.3	34.2	36.0	40.0	41.6	43.3
C45	Mesothelioma	0.6	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.3
C47	Autonomic nervous system	0.0	0.2	0.3	0.3	0.1	0.2	0.1	0.2	0.2	0.2
C48-49	Soft tissues	1.9	2.0	1.9		2.0	1 /	1.8			
					2.1		1.6		2.0	1.9	1.6
C50	Breast	114.8	122.8	126.5	128.2	125.9	131.0	128.3	132.7	120.2	138.3
C51-58	Female genital organs	61.6	63.7	126.5 66.0	128.2 68.7	125.9 66.0	131.0 61.3	128.3 65.1	132.7 65.7	120.2 59.0	138.3 59.6
C51–58 C51–52, C57.7–9	Female genital organs Other female genital	61.6 4.0	63.7 3.7	126.5 66.0 4.5	128.2 68.7 4.2	125.9 66.0 4.4	131.0 61.3 4.3	128.3 65.1 4.6	132.7 65.7 3.9	120.2 59.0 3.9	138.3 59.6 3.8
C51-58 C51-52, C57.7-9 C53	Female genital organs Other female genital Cervix uteri	61.6 4.0 12.5	63.7 3.7 11.5	126.5 66.0 4.5 14.1	128.2 68.7 4.2 15.2	125.9 66.0 4.4 14.1	131.0 61.3 4.3 12.6	128.3 65.1 4.6 14.5	132.7 65.7 3.9 14.6	120.2 59.0 3.9 13.2	138.3 59.6 3.8 12.6
C51-58 C51-52, C57.7-9 C53 C54	Female genital organs Other female genital Cervix uteri Corpus uteri	61.6 4.0 12.5 25.0	63.7 3.7 11.5 29.3	126.5 66.0 4.5 14.1 27.4	128.2 68.7 4.2 15.2 29.0	125.9 66.0 4.4 14.1 28.1	131.0 61.3 4.3 12.6 25.0	128.3 65.1 4.6 14.5 27.9	132.7 65.7 3.9 14.6 28.4	120.2 59.0 3.9 13.2 25.5	138.3 59.6 3.8 12.6 25.4
C51–58 C51–52, C57.7–9 C53 C54 C55	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other	61.6 4.0 12.5 25.0 0.2	3.7 11.5 29.3 0.2	126.5 66.0 4.5 14.1 27.4 0.4	128.2 68.7 4.2 15.2 29.0 0.2	125.9 66.0 4.4 14.1 28.1 0.3	131.0 61.3 4.3 12.6 25.0 0.3	128.3 65.1 4.6 14.5 27.9 0.3	132.7 65.7 3.9 14.6 28.4 0.3	120.2 59.0 3.9 13.2 25.5 0.2	138.3 59.6 3.8 12.6 25.4 0.3
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc.	61.6 4.0 12.5 25.0 0.2 19.7	63.7 3.7 11.5 29.3 0.2 18.8	126.5 66.0 4.5 14.1 27.4 0.4 19.5	128.2 68.7 4.2 15.2 29.0 0.2 20.1	125.9 66.0 4.4 14.1 28.1 0.3 18.9	131.0 61.3 4.3 12.6 25.0 0.3 19.0	128.3 65.1 4.6 14.5 27.9 0.3 17.5	132.7 65.7 3.9 14.6 28.4 0.3 18.3	120.2 59.0 3.9 13.2 25.5 0.2 16.1	138.3 59.6 3.8 12.6 25.4 0.3 17.5
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta	61.6 4.0 12.5 25.0 0.2 19.7 0.2	63.7 3.7 11.5 29.3 0.2 18.8 0.1	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2	131.0 61.3 4.3 12.6 25.0 0.3 19.0	128.3 65.1 4.6 14.5 27.9 0.3 17.5	132.7 65.7 3.9 14.6 28.4 0.3 18.3	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1	138.3 59.6 3.8 12.6 25.4 0.3 17.5
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis)	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0 1.5	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 1.5	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 15.0 1.5 22.2	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 1.5 17.5	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 15.0 1.5 22.2 11.1 3.7	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 1.5 17.5 11.2 3.5	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8 5.9	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6 6.2	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7 6.2	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1 4.6 5.4	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7 6.2	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0 1.5 22.2 11.1 3.7 4.9	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 1.5 11.2 3.5 5.8	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4 6.0	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0 6.6	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7 5.6
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96	Pemale genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8 5.9 46.6	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6 6.2 42.8	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7 6.2 45.8	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1 4.6 5.4	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7 6.2 47.7	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0 1.5 22.2 11.1 3.7 4.9	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 1.5 11.2 3.5 5.8 46.7	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4 6.0	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0 6.6 46.8	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7 5.6 45.9
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96	Female genital organs Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8 5.9 46.6 2.5	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6 6.2 42.8 2.2	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7 6.2 45.8 2.3	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1 4.6 5.4 48.5	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7 6.2 47.7	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0 1.5 22.2 11.1 3.7 4.9 44.8	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 17.5 11.2 3.5 5.8 46.7 2.3	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4 6.0 46.9	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0 6.6 46.8 2.0	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7 5.6 45.9
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81 C82-86, C96	Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma Non-Hodgkin lymphoma	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8 5.9 46.6 2.5 17.3	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6 6.2 42.8 2.2 15.2	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7 6.2 45.8 2.3 16.3	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1 4.6 5.4 48.5 2.2	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7 6.2 47.7 2.9 15.7	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0 1.5 22.2 11.1 3.7 4.9 44.8 1.7	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 17.5 11.2 3.5 5.8 46.7 2.3 15.7	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4 6.0 46.9 2.9 15.8	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0 6.6 46.8 2.0 15.3	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7 5.6 45.9 2.5 15.7
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81 C82-86, C96 C88	Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma Non-Hodgkin lymphoma Immunoproliferative disease	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8 5.9 46.6 2.5 17.3 1.2	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6 6.2 42.8 2.2 15.2 1.3	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7 6.2 45.8 2.3 16.3 1.3	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1 4.6 5.4 48.5 2.2 16.3 0.8	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7 6.2 47.7 2.9 15.7 0.7	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 15.0 1.5 22.2 11.1 3.7 4.9 44.8 1.7	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 17.5 11.2 3.5 5.8 46.7 2.3 15.7	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4 6.0 46.9 2.9 15.8 1.0	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0 6.6 46.8 2.0 15.3 1.2	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7 5.6 45.9 2.5 15.7
C51-58 C51-52, C57.7-9 C53 C54 C55 C56, C57.0-4, C48.2 C58 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81 C82-86, C96	Other female genital Cervix uteri Corpus uteri Uterus, other Ovary etc. Placenta Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma Non-Hodgkin lymphoma	61.6 4.0 12.5 25.0 0.2 19.7 0.2 24.9 10.1 14.8 1.2 24.0 9.2 4.8 5.9 46.6 2.5 17.3	63.7 3.7 11.5 29.3 0.2 18.8 0.1 25.0 8.7 16.3 1.7 21.8 9.8 5.6 6.2 42.8 2.2 15.2	126.5 66.0 4.5 14.1 27.4 0.4 19.5 0.1 23.9 8.8 15.1 1.7 22.2 9.8 4.7 6.2 45.8 2.3 16.3	128.2 68.7 4.2 15.2 29.0 0.2 20.1 0.1 27.9 11.5 16.4 1.6 21.0 10.1 4.6 5.4 48.5 2.2	125.9 66.0 4.4 14.1 28.1 0.3 18.9 0.2 27.4 10.6 16.9 1.1 19.9 12.4 3.7 6.2 47.7 2.9 15.7	131.0 61.3 4.3 12.6 25.0 0.3 19.0 0.0 25.4 10.4 15.0 1.5 22.2 11.1 3.7 4.9 44.8 1.7	128.3 65.1 4.6 14.5 27.9 0.3 17.5 0.1 25.2 9.7 15.5 17.5 11.2 3.5 5.8 46.7 2.3 15.7	132.7 65.7 3.9 14.6 28.4 0.3 18.3 0.1 24.0 9.4 14.7 1.6 19.1 11.7 3.4 6.0 46.9 2.9 15.8	120.2 59.0 3.9 13.2 25.5 0.2 16.1 0.1 24.3 10.1 14.2 1.1 19.1 14.1 3.0 6.6 46.8 2.0 15.3	138.3 59.6 3.8 12.6 25.4 0.3 17.5 0.0 25.5 10.0 15.5 1.4 18.9 13.2 2.7 5.6 45.9 2.5 15.7

 Table 5.9: Average annual number of new cases by primary site and five-year age group, 2017–2021, males

COP-16	ICD-10	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	
COO	C00-96	All sites	39	26	27	42	69	114	164	
CO27-06	C00-14	Mouth, pharynx	1	0	0	1	1	2	3	
COP-08	C00	Lip	0	0	0	0	0	0	0	
COP-10, CO1, C14 Oropharynx	C02-06	Oral cavity	0	0	0	0	0	1	1	
C11	C07-08	Salivary glands	0	0	0	0	0	1	1	
C15-26 Digestive organs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C09-10, C01, C14	Oropharynx	0	0	0	0	0	0	0	
C15-26 Digestive organs	C11	Nasopharynx	0	0	0	0	0	0	0	
C15 Oesophagus 0 0 0 0 0 0 0 1 1 C16 Stomach 0 0 0 0 0 0 0 1 1 1 C17 Small intestine 0 0 0 0 0 0 0 0 0 0 1 1 1 C17 Small intestine 0 0 0 0 0 0 0 0 0 0 0 2 C1 C18 Colon 0 0 0 1 1 3 3 3 4 8 8 Colon 0 0 0 0 0 0 0 0 0 2 2 C1 C18 Colon 0 0 0 1 3 3 3 4 8 8 C19 C19-20 Rectum, rectosigmoid 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C12-13	Hypopharynx	0	0	0	0	0	0	0	
C16	C15-26	Digestive organs	0	0	1	3	5	10	17	
C17	C15	Oesophagus	0	0	0	0	0	0	1	
C18	C16	Stomach	0	0	0	0	0	1	1	
C19-20 Rectum, rectosigmoid O O O O O O O O O	C17	Small intestine	0	0	0	0	0	0	2	
C21	C18	Colon	0	0	1	3	3	4	8	
C22 Liver 0 0 0 0 1 1 0 C23-244 Gallbladder, bile ducts 0 0 0 0 0 1 0 C25 Pancreas 0 <td>C19-20</td> <td>Rectum, rectosigmoid</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>4</td> <td></td>	C19-20	Rectum, rectosigmoid	0	0	0	0	0	2	4	
C23-24 Gallbladder, bile ducts 0 0 0 0 0 0 1 0	C21	Anus	0	0	0	0	0	0	0	
C25 Pancreas 0 0 0 0 0 1 1 C26 Other digestive organs 0	C22		0	0	0	0	1	1	0	
C26	C23-24	Gallbladder, bile ducts	0	0	0	0	0	1	0	
C30-34, C38 Respiratory organs	C25	Pancreas	0	0	0	0	0	1	1	
C30-31 Nose, sinuses 0	C26	Other digestive organs	0	0	0	0	0	0	0	
G32 Larynx, epiglottis 0	C30-34, C38	Respiratory organs	1	0	0	0	1	2	2	
C33-34 Lung, trachea 1 0	C30-31	Nose, sinuses	0	0	0	0	0	0	0	
C38 Heart, mediastinum and pleura 0 0 0 0 0 0 0 C40-41 Bone 0 1 3 3 2 2 2 C43 Melanoma of the skin 0 0 0 1 4 8 18 C44 Skin, non-melanoma 1 0 0 0 1 1 3 C45 Mesothelioma 0	C32	Larynx, epiglottis	0	0	0	0	0	0	0	
C40-41 Bone 0 1 3 3 2 2 2 C43 Melanoma of the skin 0 0 0 1 4 8 18 C44 Skin, non-melanoma 1 0 0 0 1 1 3 C45 Mesothelioma 0 <td>C33-34</td> <td>Lung, trachea</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>2</td> <td></td>	C33-34	Lung, trachea	1	0	0	0	0	1	2	
C43 Melanoma of the skin 0 0 0 1 4 8 18 C44 Skin, non-melanoma 1 0 0 0 1 1 3 C45 Mesothelioma 0 0 0 0 0 0 0 C47 Autonomic nervous system 2 0 0 0 0 0 C48-49 Soft tissues 2 1 1 0 1 1 3 C50 Breast 0 0 0 0 0 0 0 C60-63 Male genital organs 2 0 0 8 28 46 53 C61 Prostate 0 0 0 0 0 0 0 C62 Testis 2 0 0 8 27 46 53 C60, C63 Other male genital 0 0 0 0 0 0 0	C38	Heart, mediastinum and pleura	0	0	0	0	0	0	0	
C44 Skin, non-melanoma 1 0 0 0 1 1 3 C45 Mesothelioma 0	C40-41	Bone	0	1	3	3	2	2	2	
C45 Mesothelioma 0 0 0 0 0 0 0 0 C47 Autonomic nervous system 2 0 0 0 0 0 0 0 C48-49 Soft tissues 2 1 1 0 1 1 3 C50 Breast 0 <td>C43</td> <td>Melanoma of the skin</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>4</td> <td>8</td> <td>18</td> <td></td>	C43	Melanoma of the skin	0	0	0	1	4	8	18	
C47 Autonomic nervous system 2 0 0 0 0 0 C48-49 Soft tissues 2 1 1 0 1 1 3 C50 Breast 0 0 0 0 0 0 0 C60-63 Male genital organs 2 0 0 8 28 46 53 C61 Prostate 0 0 0 0 0 0 0 0 C62 Testis 2 0 0 8 27 46 53 C60, C63 Other male genital 0 0 0 0 0 0 0 C64-68 Urinary organs 2 1 0 1 2 4 8 C64-68 Urinary organs 2 1 0 0 1 2 4 8 C64-68 Urinary tract 0 0 0 0 1	C44	Skin, non-melanoma	1	0	0	0	1	1	3	
C48-49 Soft tissues 2 1 1 0 1 1 3 C50 Breast 0 0 0 0 0 0 0 C60-63 Male genital organs 2 0 0 8 28 46 53 C61 Prostate 0 0 0 0 0 0 0 C62 Testis 2 0 0 8 27 46 53 C60, C63 Other male genital 0 0 0 0 0 0 C64-68 Urinary organs 2 1 0 1 2 4 8 C64-68 Kidney (excl. renal pelvis) 2 1 0 0 1 2 5 C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 0 0 0 0 0	C45		0	0	0	0	0	0	0	
C50 Breast 0 0 0 0 0 0 0 C60-63 Male genital organs 2 0 0 8 28 46 53 C61 Prostate 0 0 0 0 0 0 0 C62 Testis 2 0 0 8 27 46 53 C60, C63 Other male genital 0 0 0 0 0 0 0 0 C64-68 Urinary organs 2 1 0 1 2 4 8 C65-68 Urinary organs 2 1 0 0 1 2 5 C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 0 0 0 0 0 C70-72 Central nervous system 10 10 9 8 7	C47	Autonomic nervous system	2	0	0	0	0	0	0	
C60-63 Male genital organs 2 0 0 8 28 46 53 C61 Prostate 0	C48-49	Soft tissues	2	1	1	0	1	1	3	
C61 Prostate 0 0 0 0 0 0 0 C62 Testis 2 0 0 8 27 46 53 C60, C63 Other male genital 0 0 0 0 0 0 C64-68 Urinary organs 2 1 0 1 2 4 8 C64 Kidney (excl. renal pelvis) 2 1 0 0 1 2 5 C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 1 3 5	C50	Breast	0	0	0	0	0	0	0	
C62 Testis 2 0 0 8 27 46 53 C60, C63 Other male genital 0 0 0 0 0 0 C64-68 Urinary organs 2 1 0 1 2 4 8 C64 Kidney (excl. renal pelvis) 2 1 0 0 1 2 5 C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 0 0 0 0 0 C70-72 Central nervous system 10 10 9 8 7 12 17 C73 Thyroid gland 0 0 0 1 3 5 9 C37, C74-75 Other endocrine glands 2 0 1 2 1 1 3 C39, C76, C80 Other or unspecified 0 0 0 0 0	C60-63	Male genital organs	2	0	0	8	28	46	53	
C60, C63 Other male genital 0 <td>C61</td> <td>Prostate</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	C61	Prostate	0	0	0	0	0	0	0	
C64-68 Urinary organs 2 1 0 1 2 4 8 C64 Kidney (excl. renal pelvis) 2 1 0 0 1 2 5 C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 <td< td=""><td>C62</td><td></td><td>2</td><td>0</td><td>0</td><td>8</td><td>27</td><td>46</td><td>53</td><td></td></td<>	C62		2	0	0	8	27	46	53	
C64 Kidney (excl. renal pelvis) 2 1 0 0 1 2 5 C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 <t< td=""><td>C60, C63</td><td>Other male genital</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>	C60, C63	Other male genital	0	0	0	0	0	0	0	
C65-68 Urinary tract 0 0 0 0 1 1 3 C69 Eye 2 0 0 0 0 0 0 C70-72 Central nervous system 10 10 9 8 7 12 17 C73 Thyroid gland 0 0 0 1 3 5 9 C37, C74-75 Other endocrine glands 2 0 1 2 1 1 3 C39, C76, C80 Other or unspecified 0 0 0 0 0 0 0 1 C81-96 Lymphoid/haematopoietic tissue 15 12 12 13 13 20 27 C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0	C64-68		2	1	0	1	2	4	8	
C69 Eye 2 0 0 0 0 0 C70-72 Central nervous system 10 10 9 8 7 12 17 C73 Thyroid gland 0 0 0 1 3 5 9 C37, C74-75 Other endocrine glands 2 0 1 2 1 1 3 C39, C76, C80 Other or unspecified 0 0 0 0 0 0 0 0 1 3 2 2 1 1 3 3 2 2 1 1 3 3 2 1 1 3 3 2 1 1 3 3 2 2 1 1 1 3 3 2 2 7 1 2 1 1 3 3 3 4 8 8 7 1 2 4 6 9 8 8	C64	Kidney (excl. renal pelvis)	2	1	0	0	1	2	5	
C70-72 Central nervous system 10 10 9 8 7 12 17 C73 Thyroid gland 0 0 0 1 3 5 9 C37, C74-75 Other endocrine glands 2 0 1 2 1 1 3 C39, C76, C80 Other or unspecified 0 0 0 0 0 0 0 1 C81-96 Lymphoid/haematopoietic tissue 15 12 12 13 13 20 27 C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 0		Urinary tract								
C73 Thyroid gland 0 0 0 1 3 5 9 C37, C74-75 Other endocrine glands 2 0 1 2 1 1 3 C39, C76, C80 Other or unspecified 0 0 0 0 0 0 1 C81-96 Lymphoid/haematopoietic tissue 15 12 12 13 13 20 27 C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 0					0		0			
C37, C74-75 Other endocrine glands 2 0 1 2 1 1 3 C39, C76, C80 Other or unspecified 0 0 0 0 0 0 1 C81-96 Lymphoid/haematopoietic tissue 15 12 12 13 13 20 27 C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 0		-	10	10			7	12		
C39, C76, C80 Other or unspecified 0 0 0 0 0 1 C81-96 Lymphoid/haematopoietic tissue 15 12 12 13 13 20 27 C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 1										
C81-96 Lymphoid/haematopoietic tissue 15 12 12 13 13 20 27 C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 1										
C81 Hodgkin lymphoma 0 1 2 4 6 9 8 C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 1										
C82-86, C96 Non-Hodgkin lymphoma 2 3 4 3 3 4 8 C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 1										
C88 Immunoproliferative disease 0 0 0 0 0 0 0 C90 Multiple myeloma 0 0 0 0 0 0 0 1										
C90 Multiple myeloma 0 0 0 0 0 0 1										
C91–95 Leukaemia 14 8 6 6 4 7 11										
	C91-95	Leukaemia	14	8	6	6	4	7	11	

35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
195	257	464	829	1 381	2 103	2 956	3 642	2 980	1 990	1806
5	7	19	37	53	67	73	65	49	31	24
0	1	1	2	3	5	6	10	10	9	9
2	2	5	10	13	14	20	21	15	11	7
1	2	3	3	3	4	4	5	4	3	3
1	3	8	21	31	39	33	24	15	5	4
1	0	2	1	1	2	1	1	1	1	0
0	0	0	1	2	3	7	4	4	2	1
30	52	98	185	282	401	585	737	624	447	389
1	2	6	11	17	35	44	53	36	22	20
2	4	5	11	17	25	37	51	42	35	36
3	2	7	9	14	14	19	22	16	12	9
15	19	33	57	92	131	211	280	261	194	179
5	15	26	52	67	97	129	157	120	83	57
0	1	3	3	4	5	7	5	5	1	3
1	4	5 1	11	25	30	39	42	35	22	20
1 1	3		5	5 37	6 54	14 77	17 99	13 84	9 59	9
0	1	11 1	23	4	4	10	12	11	9	49 7
5	9	21	5 5	100	196	317	414	333	225	168
0	1	1	1	2	3	317	5	5	2	3
1	1	1	5	7	11	16	18	16	8	6
3	7	18	48	91	182	297	390	310	213	156
0	1	10	1	0	102	1	1	1	3	3
1	1	1	1	2	2	3	4	3	1	1
29	39	60	85	117	125	148	195	163	112	101
3	6	12	22	34	71	119	242	288	292	372
0	0	0	0	2	4	9	14	19	11	9
0	0	0	0	0	0	0	0	0	0	0
2	3	4	6	5	8	6	8	8	4	5
0	1	1	1	2	3	4	6	7	3	3
49	48	87	183	421	754	1 068	1 149	812	391	325
2	7	48	163	406	741	1 054	1 136	800	383	316
46	39	35	17	10	8	4	3	1	1	1
1	1	4	4	5	5	10	11	10	7	8
14	22	51	91	163	196	287	374	322	229	182
9	16	29	47	75	80	95	117	74	39	28
5	7	22	44	88	116	193	257	248	190	154
1	1	2	3	5	6	7	6	4	3	3
19	19	27	41	40	44	48	53	43	25	23
9	7	11	15	17	15	14	16	11	5	4
3	5	7	10	10	10	9	12	8	2	3
0	0	2	5	7	12	15	26	22	25	40
26	36	61	86	121	190	245	320	265	182	156
4	5	5	4	8	7	5	9	6	2	1
10	12	23	31	43	64	86	108	88	56	42
0	0	1	2	1	6	8	12	12	8	7
1	3	9 23	11	21	35	46	62	50	33	31
12	16		38	48	77	100	130	110	83	76

Table 5.10: Average annual number of new cases by primary site and five-year age group, 2017–2021, **females**

ICD-10	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	
C00-96	All sites	33	21	24	38	66	147	221	
C00-14	Mouth, pharynx	0	0	0	0	1	1	4	
C00	Lip	0	0	0	0	0	0	0	
C02-06	Oral cavity	0	0	0	0	0	0	2	
C07-08	Salivary glands	0	0	0	0	0	0	1	
C09-10, C01, C14	Oropharynx	0	0	0	0	0	0	0	
C11	Nasopharynx	0	0	0	0	0	0	0	
C12-13	Hypopharynx	0	0	0	0	0	0	0	
C15-26	Digestive organs	1	1	2	5	7	9	17	
C15	Oesophagus	0	0	0	0	0	0	0	
C16	Stomach	0	0	0	0	1	1	2	
C17	Small intestine	0	0	0	0	0	0	0	
C18	Colon	0	0	1	3	4	4	9	
C19-20	Rectum, rectosigmoid	0	0	0	0	1	1	3	
C21	Anus	0	0	0	0	0	0	0	
C22	Liver	1	0	0	1	0	1	1	
C23-24	Gallbladder, bile ducts	0	0	0	0	0	0	1	
C25	Pancreas	0	0	0	1	0	1	1	
C26	Other digestive organs	0	0	0	0	0	0	0	
C30-34, C38	Respiratory organs	1	0	0	0	0	1	3	
C30-31	Nose, sinuses	0	0	0	0	0	0	0	
C32	Larynx, epiglottis	0	0	0	0	0	0	0	
C33-34	Lung, trachea	1	0	0	0	0	1	2	
C38	Heart, mediastinum and pleura	0	0	0	0	0	0	0	
C40-41	Bone	0	1	2	2	1	0	1	
C43	Melanoma of the skin	0	0	0	2	11	20	28	
C44	Skin, non-melanoma	0	1	0	1	2	1	2	
C45	Mesothelioma	0	0	0	0	0	0	0	
C47	Autonomic nervous system	2	1	0	0	0	0	0	
C48-49	Soft tissues	0	0	1	1	1	1	1	
C50	Breast	0	0	0	1	3	19	49	
C51-58	Female genital organs	0	0	1	2	6	40	48	
C51-52, C57.7-9	Other female genital	0	0	0	0	0	0	2	
C53	Cervix uteri	0	0	0	0	4	34	36	
C54	Corpus uteri	0	0	0	0	0	1	4	
C55	Uterus, other	0	0	0	0	0	0	0	
C56, C57.0-4, C48.2	Ovary etc.	0	0	1	2	2	4	6	
C58	Placenta	0	0	0	0	0	0	1	
C64-68	Urinary organs	3	1	0	0	1	3	3	
C64	Kidney (excl. renal pelvis)	3	1	0	0	1	1	2	
C65-68	Urinary tract	0	0	0	0	1	2	1	
C 69	Eye	1	0	0	0	0	1	1	
C70-72	Central nervous system	7	7	9	7	5	14	16	
C73	Thyroid gland	0	0	0	4	9	16	23	
C37, C74-75	Other endocrine glands	1	0	0	2	4	3	5	
C39, C76, C80	Other or unspecified	0	0	0	0	0	1	0	
C81-96	Lymphoid/haematopoietic tissue	15	9	8	11	14	18	19	
C81	Hodgkin lymphoma	0	0	2	5	7	7	6	
C82-86, C96	Non-Hodgkin lymphoma	2	2	1	1	3	3	4	
C88	Immunoproliferative disease	0	0	0	0	0	0	0	
C90	Multiple myeloma	0	0	0	0	0	0	0	
C91-95	Leukaemia	13	7	4	5	3	7	8	
		-			-	-		-	

35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
346	527	821	1 143	1 271	1 674	2 039	2 354	2 121	1 638	1 988
4	5	10	18	21	27	26	38	33	21	34
0	0	1	1	3	3	5	7	8	6	8
1	3	2	5	6	9	11	18	14	9	17
2	2	2	3	1	3	1	4	3	2	6
0	0	4	7	10	11	9	8	6	3	2
0	0	1	1	1	1	0	1	0	0	0
0	0	0	0	0	0	1	1	1	0	1
33	51	89	137	192	295	398	541	521	457	540
0	0	2	3	4	9	13	18	13	11	12
2	6	6	10 6	10 10	11 10	21 14	25 16	25 14	23 11	33
17	24	38	51	78	123	185	263	274	248	289
8	11	21	35	43	66	70	87	75	58	66
1	1	3	5	6	12	10	7	8	6	6
0	2	4	4	9	11	16	20	19	17	22
0	1	3	3	4	8	10	15	12	16	16
3	3	8	18	24	37	51	77	73	60	75
0	1	1	1	3	6	8	13	9	9	13
5	9	25	53	102	189	282	384	309	184	150
0	1	1	1	1	2	2	3	2	2	2
0	0	1	1	3	4	3	4	2	1	0
4	8	24	51	98	183	276	377	305	179	147
0	0	0	0	0	0	0	0	1	1	1
2	1	1	1	2	2	2	1	1	1	2
40	57	89	105	110	112	122	138	114	87	105
3	7	19	24	39	58	99	161	188	219	416
0	0	0	1	1	1	1	4	1	2	2
0	1	0	0	0	0	0	0	0	0	0
2	3	4	4	4	4	5	8	6	3	4
101	199	329	466	410	479	504	354	324	208	214
72	80	98	137	154	197	221	253	199	141	141
2	4	4	8	7	12	14	15	15	16	25
50	45	38	29	26	25	24	20	12	10	8
9	17	30	58	78	105	107	134	103	72	60
0	0	0	0	0	0	1	1	1	1	3
10	14	27	42	43	56	75	84	68	42	45
0	0 13	0 20	0	0 55	0	0	120	0 120	0	100
5	8	14	36 19	24	78 36	100 42	128 51	40	84 23	100
1	5	6	17	31	42	58	77	80	61	76
1	0	2	3	5	5	7	6	4	2	3
19	29	48	46	53	57	50	63	48	33	33
31	34	32	33	26	30	33	26	15	10	9
6	6	8	5	7	8	9	9	8	4	3
1	0	3	5	6	10	13	18	27	29	70
22	33	43	69	85	122	166	222	203	154	163
4	3	1	4	3	2	4	4	4	2	2
7	12	12	22	33	47	61	81	73	47	47
0	0	1	1	1	3	4	7	8	5	4
2	2	5	10	15	19	32	39	34	30	28

Table 5.11: Age-specific incidence rates per 100 000 person-years by primary site and five-year age group, 2017–2021, males

ICD-10	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	
C00-96	All sites	26.1	16.1	16.3	25.5	39.0	60.3	87.0	
C00-14	Mouth, pharynx	0.4	0.0	0.1	0.4	0.3	1.0	1.4	
C00	Lip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C02-06	Oral cavity	0.1	0.0	0.1	0.1	0.1	0.5	0.7	
C07-08	Salivary glands	0.3	0.0	0.0	0.1	0.0	0.4	0.3	
C09-10, C01, C14	Oropharynx	0.0	0.0	0.0	0.0	0.1	0.0	0.1	
C11	Nasopharynx	0.0	0.0	0.0	0.1	0.1	0.0	0.2	
C12-13	Hypopharynx	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C15-26	Digestive organs	0.1	0.2	0.5	2.1	3.0	5.1	9.0	
C15	Oesophagus	0.0	0.0	0.0	0.1	0.1	0.1	0.3	
C16	Stomach	0.0	0.0	0.0	0.0	0.2	0.4	0.6	
C17	Small intestine	0.0	0.0	0.0	0.0	0.2	0.1	0.8	
C18	Colon	0.0	0.1	0.4	1.7	1.9	2.2	4.4	
C19-20	Rectum, rectosigmoid	0.0	0.0	0.0	0.0	0.0	0.8	2.1	
C21	Anus	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
C22	Liver	0.1	0.1	0.1	0.2	0.3	0.3	0.0	
C23-24	Gallbladder, bile ducts	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
C25	Pancreas	0.0	0.0	0.0	0.0	0.1	0.4	0.6	
C26	Other digestive organs	0.0	0.0	0.0	0.0	0.0	0.2	0.0	
C30-34, C38	Respiratory organs	0.4	0.0	0.1	0.2	0.3	0.8	1.2	
C30-31	Nose, sinuses	0.0	0.0	0.1	0.0	0.1	0.2	0.2	
C32	Larynx, epiglottis	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
C33-34	Lung, trachea	0.4	0.0	0.0	0.1	0.1	0.5	0.8	
C38	Heart, mediastinum and pleura	0.0	0.0	0.0	0.1	0.1	0.1	0.0	
C40-41	Bone	0.3	0.5	1.6	1.8	1.0	1.1	1.0	
C43	Melanoma of the skin	0.0	0.1	0.0	0.5	2.3	4.2	9.6	
C44	Skin, non-melanoma	0.4	0.2	0.0	0.2	0.7	0.7	1.5	
C45	Mesothelioma	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C47	Autonomic nervous system	1.6	0.0	0.1	0.1	0.2	0.0	0.0	
C48-49	Soft tissues	1.1	0.4	0.4	0.2	0.8	0.6	1.4	
C50	Breast	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C60-63	Male genital organs	1.1	0.1	0.0	4.7	15.7	24.4	28.0	
C61	Prostate	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
C62	Testis	1.1	0.1	0.0	4.6	15.4	24.3	27.9	
C60, C63	Other male genital	0.0	0.0	0.0	0.1	0.1	0.1	0.1	
C64-68	Urinary organs	1.3	0.5	0.0	0.4	0.9	2.0	4.0	
C64	Kidney (excl. renal pelvis)	1.3	0.5	0.0	0.2	0.5	1.3	2.6	
C65-68	Urinary tract	0.0	0.0	0.0	0.1	0.5	0.7	1.4	
C 69	Eye	1.3	0.2	0.0	0.1	0.1	0.1	0.1	
C70-72	Central nervous system	6.4	5.9	5.7	5.1	3.9	6.2	9.1	
C73	Thyroid gland	0.0	0.0	0.1	0.5	1.5	2.4	4.8	
C37, C74-75	Other endocrine glands	1.5	0.2	0.5	1.2	0.8	0.7	1.5	
C39, C76, C80	Other or unspecified	0.0	0.0	0.1	0.1	0.0	0.1	0.3	
C81-96	Lymphoid/haematopoietic tissue	10.3	7.6	7.0	7.8	7.5	10.7	14.2	
C81	Hodgkin lymphoma	0.0	0.6	1.1	2.2	3.6	4.8	4.0	
C82-86, C96	Non-Hodgkin lymphoma	1.1	1.8	2.2	1.8	1.5	1.9	4.0	
C88	Immunoproliferative disease	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C90	Multiple myeloma	0.0	0.0	0.0	0.0	0.0	0.1	0.5	

107.0	142.1	240.8	440.0	818.8	1 369.6	2 151.5	2 931.0	3 672.4	4 088.6	4 437.4
2.6	4.1	9.8	19.8	31.2	43.6	53.0	52.5	60.6	64.5	59.0
0.1	0.3	0.4	0.8	1.5	3.4	4.7	8.0	12.3	19.3	21.1
1.1	1.2	2.5	5.2	7.7	9.4	14.8	16.7	18.7	23.4	17.2
0.5	0.9	1.5	1.5	1.5	2.3	3.1	4.0	5.4	6.2	8.4
0.5	1.4	4.2	11.3	18.4	25.3	24.2	19.5	18.2	10.3	9.3
0.3	0.2	1.1	0.4	0.8	1.2	1.0	0.6	1.0	1.6	0.5
0.0	0.0	0.1	0.5	1.2	2.1	5.2	3.5	4.9	3.7	2.5
16.7	28.6	50.9	98.4	167.0	261.1	425.7	593.2	768.5	918.4	956.0
0.8	1.1	3.1	5.9	10.2	22.8	32.2	42.5	44.4	44.4	49.2
1.0	2.3	2.7	5.7	10.2	16.4	26.8	40.9	52.3	71.9	89.0
1.5	1.2	3.6	4.8	8.2	9.4	13.5	17.5	19.7	23.8	21.1
8.1	10.5	17.2	30.5	54.6	85.3	153.4	225.6	321.9	399.4	439.9
2.7	8.5	13.4	27.7	39.8	63.3	93.9	126.5	147.9	170.9	140.6
0.2	0.3	1.5	1.4	2.4	3.0	4.8	4.0	6.4	2.9	6.4
0.8	2.1	2.4	5.9	14.6	19.5	28.2	33.6	43.6	46.0	50.1
0.5	0.4	0.6	2.5	2.8	3.8	9.9	13.5	15.5	19.3	22.1
0.8	1.7	5.7	12.3	22.0	34.9	55.9	79.3	103.5	120.4	119.9
0.2	0.3	0.6	1.6	2.1	2.6	7.1	9.7	13.3	19.3	17.7
2.5	5.2	10.8	29.1	59.5	127.9	230.6	333.3	410.1	462.7	412.9
0.1	0.4	0.4	0.6	1.4	2.2	1.9	3.7	5.9	4.1	6.4
0.7	0.6	0.5	2.7	3.9	6.9	11.9	14.8	20.0	16.4	15.7
1.5	3.9	9.3	25.5	54.2	118.3	216.0	314.2	382.5	436.8	384.4
0.2	0.3	0.5	0.3	0.0	0.5	0.7	0.6	1.7	5.3	6.4
0.5	0.4	0.7	0.7	1.1	1.2	2.3	3.4	3.5	2.9	1.5
15.8	21.7	31.3	45.2	69.2	81.7	108.0	156.6	200.6	230.9	247.2
1.8	3.2	6.2	11.9	19.9	46.1	86.5	194.9	354.7	600.8	914.2
0.0	0.0	0.0	0.2	0.9	2.6	6.4	11.4	23.4	22.6	22.1
0.0	0.2	0.0	0.1	0.2	0.0	0.1	0.3	0.2	0.4	0.0
0.9	1.4	2.1	3.0	3.1	5.1	4.5	6.3	9.4	9.0	12.8
0.0	0.3	0.3	0.4	1.3	2.1	2.9	5.0	8.6	6.2	6.4
26.8	26.5	45.1	97.4	249.8	491.2	776.9	924.9	1 000.7	802.5	797.7
1.1	4.1	25.1	86.7	240.9	482.6	766.8	914.1	986.4	787.3	776.6
25.0	21.6	18.1	8.8	6.2	5.2	2.6	2.1	1.7	1.6	1.5
0.7	0.8	1.9	1.9	2.7	3.4	7.6	8.7	12.6	13.6	19.7
7.5	12.4	26.5	48.4	96.5	127.7	209.0	301.1	397.1	470.1	447.3
4.7	8.6	15.3	24.9	44.5	51.8	68.8	94.3	90.9	79.3	69.8
2.7	3.8	11.2	23.6	52.0	75.8	140.2	206.8	306.1	390.8	377.5
0.5	0.6	0.9	1.7	2.8	3.9	4.8	4.5	5.2	5.3	6.4
10.4	10.7	14.0	21.9	23.8	28.7	35.1	42.8	52.7	51.8	56.5
4.7	3.8	5.6	8.0	10.2	9.5	10.5	13.2	13.1	9.9	8.8
1.6	2.5	3.6	5.5	6.2	6.3	6.3	9.5	10.1	4.9	7.4
0.2	0.2	1.1	2.8	4.3	7.6	10.6	20.6	26.9	51.4	97.8
14.5	20.2	31.9	45.5	71.7	123.5	178.3	257.5	327.1	374.3	383.4
2.0	2.7	2.6	2.1	4.5	4.8	3.9	7.1	6.9	3.7	2.0
5.4	6.9	12.0	16.2	25.4	41.6	62.3	86.6	108.0	115.1	103.2
0.0	0.1	0.5	1.2	0.8	3.8	5.7	9.3	15.3	17.3	16.2
0.8 6.4	1.7 8.9	4.7 12.0	5.7 20.2	12.7 28.3	23.1 50.3	33.5 72.9	50.1 104.4	61.6 135.3	67.4 170.9	75.2 186.8

Table 5.12: Age-specific incidence rates per 100 000 person-years by primary site and five-year age group, 2017–2021, females

ICD-10	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	
C00-96	All sites	23.0	13.6	15.3	24.6	39.9	81.6	122.3	
C00-14	Mouth, pharynx	0.1	0.0	0.3	0.1	0.5	0.8	2.0	
C00	Lip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C02-06	Oral cavity	0.0	0.0	0.0	0.1	0.2	0.2	1.0	
C07-08	Salivary glands	0.0	0.0	0.3	0.0	0.1	0.2	8.0	
C09-10, C01, C14	Oropharynx	0.0	0.0	0.0	0.0	0.1	0.2	0.0	
C11	Nasopharynx	0.1	0.0	0.0	0.0	0.0	0.1	0.1	
C12-13	Hypopharynx	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
C15-26	Digestive organs	1.0	0.6	1.1	3.3	4.3	4.9	9.6	
C15	Oesophagus	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
C16	Stomach	0.0	0.0	0.0	0.1	0.4	0.7	1.0	
C17	Small intestine	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
C18	Colon	0.0	0.3	0.8	1.9	2.7	2.3	4.9	
C19-20	Rectum, rectosigmoid	0.0	0.0	0.0	0.0	0.7	0.6	1.9	
C21	Anus	0.0	0.0	0.0	0.1	0.0	0.0	0.2	
C22	Liver	1.0	0.3	0.1	0.4	0.1	0.3	0.6	
C23-24	Gallbladder, bile ducts	0.0	0.0	0.0	0.0	0.0	0.1	0.3	
C25	Pancreas	0.0	0.1	0.1	0.8	0.2	0.7	0.4	
C26	Other digestive organs	0.0	0.0	0.1	0.0	0.0	0.2	0.0	
C30-34, C38	Respiratory organs	0.8	0.0	0.0	0.1	0.1	0.8	1.5	
C30-31	Nose, sinuses	0.1	0.0	0.0	0.0	0.0	0.1	0.1	
C32	Larynx, epiglottis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C33-34	Lung, trachea	0.7	0.0	0.0	0.0	0.1	0.6	1.3	
C38	Heart, mediastinum and pleura	0.0	0.0	0.0	0.1	0.0	0.1	0.1	
C40-41	Bone	0.3	8.0	1.4	1.3	0.7	0.1	0.6	
C43	Melanoma of the skin	0.0	0.0	0.0	1.2	6.5	11.0	15.6	
C44	Skin, non-melanoma	0.3	0.4	0.0	0.4	1.5	0.8	1.1	
C45	Mesothelioma	0.0	0.0	0.0	0.0	0.0	0.1	0.2	
C47	Autonomic nervous system	1.3	0.5	0.0	0.1	0.1	0.0	0.1	
C48-49 C50	Soft tissues Breast	0.3	0.3	0.5 0.0	0.4 0.4	0.5	0.4	0.7 27.1	
				0.6		1.8	10.3		
C51-58 C51-52, C57.7-9	Female genital organs Other female genital	0.0	0.0 0.0	0.0	1.4 0.0	3.7 0.0	22.0 0.2	26.8 0.9	
C53	Cervix uteri	0.0	0.0	0.0	0.0	2.6	19.0	20.1	
C54		0.0	0.0	0.0	0.0	0.0	0.7	2.2	
C55	Corpus uteri Uterus, other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C56, C57.0-4, C48.2	Ovary etc.	0.0	0.0	0.5	1.0	1.0	2.1	3.2	
C58	Placenta	0.0	0.0	0.0	0.1	0.1	0.0	0.3	
C64-68	Urinary organs	2.1	0.4	0.0	0.1	0.1	1.7	1.4	
C64	Kidney (excl. renal pelvis)	2.0	0.4	0.0	0.1	0.4	0.8	0.9	
C65-68	Urinary tract	0.1	0.0	0.0	0.1	0.5	0.9	0.6	
C69	Eye	0.6	0.3	0.0	0.1	0.1	0.4	0.4	
C70-72	Central nervous system	4.8	4.4	6.0	4.4	3.3	7.5	8.7	
C73	Thyroid gland	0.0	0.0	0.1	2.7	5.2	9.1	12.9	
C37, C74-75	Other endocrine glands	0.8	0.3	0.3	1.4	2.4	1.7	3.0	
C39, C76, C80	Other or unspecified	0.1	0.0	0.0	0.0	0.0	0.3	0.2	
C81-96	Lymphoid/haematopoietic tissue	10.4	5.7	5.0	7.0	8.4	9.7	10.3	
C81	Hodgkin lymphoma	0.0	0.1	1.4	3.5	4.4	3.8	3.5	
C82-86, C96	Non-Hodgkin lymphoma	1.6	1.2	0.9	0.5	1.9	1.9	2.2	
C88	Immunoproliferative disease	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C90	Multiple myeloma	0.0	0.0	0.0	0.0	0.0	0.2	0.2	
C91-95	Leukaemia	8.9	4.4	2.7	3.0	2.1	3.9	4.3	

35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
201.3	308.9	448.3	638.8	785.6	1 105.1	1 474.4	1 824.4	2 316.1	2 579.5	2 600.6
2.1	3.0	5.2	10.2	13.1	17.7	18.9	29.6	35.8	32.8	44.2
0.1	0.0	0.3	0.8	1.6	2.2	3.5	5.4	9.2	9.8	10.5
8.0	1.5	1.2	2.9	4.0	6.2	7.7	13.6	15.5	14.8	22.0
0.9	0.9	0.9	1.9	0.7	1.7	1.0	3.3	3.3	3.1	7.3
0.1	0.2	2.3	4.1	6.3	7.0	6.2	6.0	6.8	4.4	3.1
0.1	0.2	0.4	0.3	0.5	0.4	0.1	0.5	0.2	0.3	0.3
0.0	0.1	0.1	0.1	0.0	0.1	0.4	0.8	0.9	0.3	1.0
19.2	30.1	48.8	76.5	118.5	194.5	288.1	419.3	569.2	719.3	706.8
0.0	0.2	1.1	1.5	2.3	6.2	9.5	13.8	14.4	16.7	16.2
1.0	3.3	3.2	5.8	6.4	7.4	14.9	19.4	27.3	35.6	43.2
1.0	1.2	1.9	3.5	6.3	6.7	10.4	12.2	15.3	18.0	10.5
9.9	14.2	20.5	28.3	48.2	81.5	134.1	203.5	299.4	390.2	377.9
4.7	6.2	11.2	19.6	26.5	43.6	50.3	67.4	81.5	90.7	86.1
0.7	0.7	1.9	2.9	3.7	8.1	7.5	5.7	8.7	8.8	7.3
0.1	1.2	2.4	2.5	5.3	7.5	11.6	15.8	20.3	26.5	28.8
0.1	0.6	1.4	1.6	2.7	5.1	7.1	11.8	13.5	24.6	21.2
1.5	2.0	4.5	10.2	15.0	24.6	37.0	59.8	79.3	94.5	98.1
0.1	0.6	0.8	0.8	2.0	3.8	5.6	9.8	9.4	13.9	17.5
2.8	5.2	13.9	29.9	63.2	124.5	203.9	297.9	337.9	289.1	196.0
0.2	0.4	0.3	0.6	0.6	1.2	1.7	2.5	2.0	3.8	2.4
0.0	0.1	0.4	0.6	1.7	2.5	2.3	3.1	2.0	1.9	0.3
2.6	4.6	13.0	28.7	60.8	120.7	199.6	292.0	333.3	282.5	192.3
0.0	0.1	0.1	0.0	0.0	0.1	0.3	0.3	0.7	0.9	1.0
0.9	0.6	0.3	0.4	1.0	1.5	1.3	1.1	1.3	1.6	2.1
23.0	33.2	48.7	58.6	68.0	74.1	88.1	107.3	124.1	137.6	137.1
2.0 0.0	4.1 0.0	10.2 0.2	13.4 0.3	24.0 0.6	38.3 0.9	71.7 0.9	124.9 2.9	205.5 1.1	345.1 3.5	544.0 2.6
0.0	0.5	0.2	0.0	0.0	0.9	0.9	0.0	0.2	0.0	0.0
1.2	1.8	2.0	2.1	2.2	2.9	3.5	6.0	6.6	4.4	5.8
58.9	116.4	179.5	260.4	253.4	316.2	364.2	274.4	353.4	327.2	280.0
42.1	47.1	53.7	76.7	95.3	130.2	159.5	195.9	216.9	221.7	184.5
1.4	2.3	2.0	4.4	4.6	7.7	10.0	11.6	16.2	25.8	32.2
28.9	26.4	20.5	16.2	16.3	16.4	17.4	15.2	12.7	15.4	10.7
5.5	10.0	16.6	32.4	48.0	69.2	77.5	103.6	112.7	113.1	78.8
0.2	0.1	0.0	0.2	0.1	0.1	0.7	0.6	1.5	1.6	3.9
5.9	8.1	14.6	23.5	26.3	36.8	53.9	65.0	73.8	65.8	58.9
0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.8	7.4	10.9	20.0	33.8	51.5	72.5	99.5	131.0	132.3	130.6
2.1	4.6	7.9	10.5	14.6	23.5	30.7	39.7	43.2	35.9	31.4
0.7	2.8	3.1	9.5	19.2	28.0	41.8	59.8	87.8	96.4	99.2
0.5	0.2	1.3	1.8	3.1	3.0	4.8	4.3	4.8	2.8	3.7
10.9	16.8	26.3	25.7	32.6	37.8	36.4	48.8	52.9	51.6	43.2
18.2	19.8	17.7	18.2	16.0	19.8	23.7	20.0	16.6	16.4	11.8
3.6	3.5	4.6	2.7	4.2	5.4	6.8	6.7	8.5	6.0	3.7
0.3	0.2	1.6	3.0	4.0	6.5	9.7	13.6	29.0	46.0	91.8
	19.1	23.3	38.8	52.7	80.4	120.3	171.9	221.3	242.2	212.7
12.7		0.8	2.0	1.9	1.6	2.9	3.1	4.8	3.1	2.4
	1.6	0.0								
12.7 2.2 4.3		6.3	12.5	20.4	31.0	44.4	63.1	80.2	74.6	62.0
2.2	1.6 6.8 0.2			20.4 0.7	31.0 2.1	44.4 2.9	63.1 5.4	80.2 8.7	74.6 7.2	62.0 4.7
2.2 4.3	6.8	6.3	12.5							

Table 5.13: Average annual number of new cases by primary site and five-year period, 1962–2021, males

ICD-10	Site	1962-66	1967-71	1972-76	1977-81	1982-86	
C00-96	All sites	4716	5 594	6 5 2 0	7 623	8 629	
C00-14	Mouth, pharynx	188	215	244	236	255	
C00	Lip	90	108	110	105	94	
C02-06	Oral cavity	36	53	59	66	82	
C07-08	Salivary glands	13	15	14	14	15	
C09-10, C01, C14	Oropharynx	24	14	29	23	30	
C11	Nasopharynx	9	10	11	9	12	
C12-13	Hypopharynx	17	15	22	19	22	
C15-26	Digestive organs	1740	1 890	1 975	2 191	2 3 7 5	
C15	Oesophagus	78	80	81	89	84	
C16	Stomach	786	745	649	600	579	
C17	Small intestine	13	18	18	19	30	
C18	Colon	306	368	416	541	675	
C19-20	Rectum, rectosigmoid	186	270	328	448	514	
C21	Anus	7	5	7	9	12	
C22	Liver	23	41	54	50	68	
C23-24	Gallbladder, bile ducts	22	27	29	38	47	
C25	Pancreas	185	226	252	271	297	
C26	Other digestive organs	135	109	142	127	68	
C30-34, C38	Respiratory organs	477	676	827	1 054	1 2 2 5	
C30-31	Nose, sinuses	21	21	23	25	21	
C32	Larynx, epiglottis	50	68	74	94	108	
C33-34	Lung, trachea	396	574	710	917	1 085	
C38	Heart, mediastinum and pleura	10	13	20	19	12	
C40-41	Bone	17	17	22	21	24	
C43	Melanoma of the skin	80	118	162	220	264	
C44	Skin, non-melanoma	68	107	189	220	301	
C45	Mesothelioma	2	4	9	21	27	
C47	Autonomic nervous system	15	13	12	8	8	
C48-49	Soft tissues	29	38	53	57	45	
C50	Breast	8	9	10	11	12	
C60-63	Male genital organs	961	1 153	1387	1 664	1892	
C61	Prostate	870	1 052	1280	1 523	1714	
C62	Testis	68	78	85	115	149	
C60, C63	Other male genital	23	23	22	26	29	
C64-68	Urinary organs	431	517	677	818	961	
C64	Kidney (excl. renal pelvis)	128	158	177	211	250	
C65-68	Urinary tract	303	359	500	607	711	
C69	Eye	17	24	18	27	25	
C70-72	Central nervous system	136	150	169	195	221	
C73	Thyroid gland	26	35	36	44	46	
C37, C74-75	Other endocrine glands	10	21	25	32	43	
C39, C76, C80	Other or unspecified	88	127	160	185	229	
C81-96	Lymphoid/haematopoietic tissue	423	482	547	620	676	
C81	Hodgkin lymphoma	53	61	62	68	53	
C82-86, C96	Non-Hodgkin lymphoma	106	118	142	164	215	
C88	Immunoproliferative disease	0	2	7	8	10	
C90	Multiple myeloma	83	95	127	151	152	
C91-95	Leukaemia	180	205	210	229	246	

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91
19 084	17 550	15 239	12 972	11 5 1 5	10 518	9 300
437	382	306	257	260	256	252
55	56	61	44	51	65	85
124	115	91	82	87	91	81
36	36	21	20	23	18	18
184	145	105	79	62	47	33
12	10	9	10	11	10	10
25	20	19	22	27	25	26
3 866	3 525	3 021	2 716	2 551	2 437	2 387
249	208	162	138	121	107	104
268	301	305	327	381	449	519
128	103	75	53	48	33	26
1 493	1 3 7 8	1 187	1 037	947	847	760
815	802	697	660	601	562	527
36	25	23	19	17	19	11
237	169	111	82	71	59	60
80	84	70	63	61	53	49
498	401	345	310	276	280	295
62	54	47	27	28	28	36
1 849	1774	1 670	1 557	1 438	1390	1 285
27	27	23	22	23	20	24
9-	99	97	105	107	104	105
1719	1637	1539	1 417	1 293	1 251	1 148
12	10	11	13	16	15	8
33	29	28	26	20	21	20
1 206	983	716	521	471	428	380
1 468	1 000	807	670	565	479	392
68	67	68	66	56	45	37
5	5	7	5	6	6	8
66	70	61	56	50	48	43
30	28	19	15	15	12	13
5 423	5 425	4849	3 820	3 220	2 676	2 112
5 058	5 054	4511	3 531	2 952	2 439	1 921
299	312	293	247	238	204	166
66	59	45	42	30	33	25
1 948	1 746	1 427	1 260	1 102	1 100	1 011
619	570	447	356	293	268	254
1329	1 177	980	904	810	832	757
43	39	32	34	27	29	23
456	505	500	440	358	289	243
140	112	71	60	49	42	51
90	121	132	95	69	55	42
155	150	172	228	287	321	279
1801	1 589	1354	1 146	970	884	721
84	87	77	70	58	52	51
586	545	465	388	343	318	270
57	46	34	33	30	20	8
304	238	214	183	162	163	154
770	673	564	472	377	332	237

Table 5.14: Average annual number of new cases by primary site and five-year period, 1962–2021, **females**

ICD-10	Site	1962-66	1967-71	1972-76	1977-81	1982-86	
C00-96	All sites	4 6 6 7	5 444	6 177	7 039	7 937	
C00-14	Mouth, pharynx	69	73	80	90	103	
C00	Lip	5	6	7	9	15	
C02-06	Oral cavity	22	34	34	44	53	
C07-08	Salivary glands	14	13	12	15	13	
C09-10, C01, C14	Oropharynx	13	8	14	12	13	
C11	Nasopharynx	5	4	6	5	4	
C12-13	Hypopharynx	10	7	8	5	6	
C15-26	Digestive organs	1 467	1 609	1728	2 032	2 169	
C15	Oesophagus	32	28	31	31	35	
C16	Stomach	532	492	419	406	387	
C17	Small intestine	11	15	18	21	27	
C18	Colon	359	438	513	691	785	
C19-20	Rectum, rectosigmoid	140	215	261	359	405	
C21	Anus	10	13	13	20	25	
C22	Liver	13	23	30	36	44	
C23-24	Gallbladder, bile ducts	52	59	56	73	82	
C25	Pancreas	124	167	189	224	274	
C26	Other digestive organs	195	159	199	171	104	
C30-34, C38	Respiratory organs	111	168	202	257	351	
C30-31	Nose, sinuses	12	14	13	13	15	
C32	Larynx, epiglottis	5	6	7	11	11	
C33-34	Lung, trachea	86	143	173	228	321	
C38	Heart, mediastinum and pleura	7	5	9	5	4	
C40-41	Bone	9	14	13	13	14	
C43	Melanoma of the skin	93	129	200	263	361	
C44	Skin, non-melanoma	40	59	118	150	226	
C45	Mesothelioma	1	2	2	2	5	
C47	Autonomic nervous system	9	16	9	5	6	
C48-49	Soft tissues	27	28	43	44	47	
C50	Breast	1 071	1 218	1381	1 493	1720	
C51-58	Female genital organs	961	1 122	1 2 2 6	1 268	1 290	
C51-52, C57.7-9	Other female genital	61	60	76	80	83	
C53	Cervix uteri	359	403	441	400	354	
C54	Corpus uteri	222	268	324	369	390	
C55	Uterus, other	17	15	7	8	5	
C56, C57.0-4, C48.2	Ovary etc.	300	372	377	408	455	
C58	Placenta	3	4	1	3	3	
C64-68	Urinary organs	225	273	327	376	420	
C64	Kidney (excl. renal pelvis)	90	117	118	138	156	
C65-68	Urinary tract	135	156	209	239	264	
C69	Eye	16	18	20	21	22	
C70-72	Central nervous system	118	131	151	186	224	
C73	Thyroid gland	61	91	111	132	143	
C37, C74-75	Other endocrine glands	7	13	16	33	47	
C39, C76, C80	Other or unspecified	70	99	112	176	224	
C81-96	Lymphoid/haematopoietic tissue	312	383	437	495	566	
C81	Hodgkin lymphoma	37	47	43	40	38	
C82-86, C96	Non-Hodgkin lymphoma	76	101	114	146	199	
C88	Immunoproliferative disease	0	1 70	4	4	6	
C90	Multiple myeloma	64	79	108	128	134	
C91-95	Leukaemia	135	155	167	177	190	

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91
16 471	14 887	13 124	11 948	10 648	9 609	8 556
243	212	184	152	128	130	108
43	40	36	21	16	19	20
99	87	73	70	62	63	55
31	26	25	19	20	21	12
61	47	40	30	23	18	11
5	6	4	5	3	3	3
4	5	5	7	5	5	6
3 297	3 108	2 771	2 572	2 440	2 3 2 4	2 204
86	71	59	53	50	40	39
175	171	205	230	242	295	341
98	69	62	49	43	29	31
1 612	1 516	1313	1 2 0 5	1 115	1 015	883
543	554	519	497	476	455	422
67	65	46	45	36	36	28
129	95	69	47	47	42	42
89	95	87	78	80	73	75
434	404	363	340	326	311	282
65	68	50	28	25	27	61
1 698	1 478	1 2 3 0	968	767	622	481
18	19	20	18	15	17	14
19	21	19	16	20	20	11
1 658	1 433	1 184	927	724	579	451
4	5	7	6	7	6	5
23	25	24	19	19	18	14
1 139	973	735	581	512	490	443
1 241	881	722	584	475	398	304
14	13	13	12	9	10	7
4	5	4	4	5	7	9
51	52	64	59	51	45	46
3 657	3 251	2 819	2 740	2 462	2 073	1 820
1791	1735	1 650	1 570	1 441	1396	1 3 1 8
123	117	104	102	96	95	85
361	344	295	300	310	345	346
778	746	723	649	526	467	412
9	8	7	9	9	8	6
518	518	519	506	495	477	464
2	3	2	4	4	4	6
749	715	616	566	498	481	447
291	269	250	216	189	190	181
458	446	366	350	309	291	266
41	38	33	32	28	30	25
544	571	631	596	435	316	260
332	265	190	153	124	137	135
89	120	138	106	65	49	39
184	178	209	299	337	353	285
1373	1 266	1092	934	851	729	610
61	62	54	48	42	34	34
461	439	387	337	317	273	243
34	29	24	21	16	13	8
216	195	167	154	147	139	133
601	540	459	375	327	269	191

Table 5.15: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and five-year period, 1962–2021, **males**

ICD-10	Site	1962-66	1967-71	1972-76	1977-81	1982-86	
C00-96	All sites	357.7	393.5	429.8	475.7	513.6	
C00-14	Mouth, pharynx	14.5	15.3	15.8	14.7	15.1	
C00	Lip	7.3	8.0	7.2	6.8	5.7	
C02-06	Oral cavity	2.9	3.7	3.9	4.1	4.9	
C07-08	Salivary glands	0.8	1.0	0.9	0.9	8.0	
C09-10, C01, C14	Oropharynx	1.7	0.9	1.9	1.3	1.8	
C11	Nasopharynx	0.6	0.6	0.6	0.6	0.7	
C12-13	Hypopharynx	1.2	1.1	1.4	1.1	1.3	
C15-26	Digestive organs	134.7	135.9	133.7	139.8	144.6	
C15	Oesophagus	6.1	5.8	5.5	5.6	5.0	
C16	Stomach	61.1	54.4	44.2	38.3	35.6	
C17	Small intestine	0.9	1.2	1.1	1.2	1.8	
C18	Colon	23.8	26.5	28.3	34.7	41.0	
C19-20	Rectum, rectosigmoid	14.2	19.2	21.8	28.5	30.7	
C21	Anus	0.5	0.4	0.5	0.5	0.8	
C22	Liver	1.6	2.8	3.4	3.0	4.0	
C23-24	Gallbladder, bile ducts	1.6	1.9	2.0	2.5	2.8	
C25	Pancreas	13.6	15.6	16.4	16.8	18.1	
C26	Other digestive organs	11.3	8.1	10.4	8.8	4.8	
C30-34, C38	Respiratory organs	32.4	42.7	49.6	61.0	69.6	
C30-31	Nose, sinuses	1.6	1.4	1.4	1.4	1.3	
C32	Larynx, epiglottis	3.4	4.3	4.4	5.4	6.1	
C33-34	Lung, trachea	26.6	36.2	42.6	53.0	61.6	
C38	Heart, mediastinum and pleura	0.7	0.8	1.1	1.1	0.7	
C40-41	Bone	0.9	0.9	1.2	1.1	1.2	
C43	Melanoma of the skin	5.3	7.5	9.8	12.9	14.9	
C44	Skin, non-melanoma	6.3	8.9	15.2	15.7	19.9	
C45	Mesothelioma	0.2	0.3	0.5	1.2	1.5	
C47	Autonomic nervous system	0.9	0.8	0.6	0.4	0.4	
C48-49	Soft tissues	1.9	2.6	3.4	3.4	2.5	
C50	Breast	0.7	0.6	0.6	0.7	0.8	
C60-63	Male genital organs	81.5	89.2	98.0	109.3	114.7	
C61	Prostate	75.5	82.9	91.9	101.7	105.9	
C62	Testis	4.1	4.5	4.6	5.9	7.0	
C60, C63	Other male genital	2.0	1.8	1.5	1.7	1.7	
C64-68	Urinary organs	32.0	34.9	43.3	49.9	56.7	
C64	Kidney (excl. renal pelvis)	9.1	10.2	10.8	12.4	14.4	
C65-68	Urinary tract	22.9	24.7	32.4	37.5	42.3	
C69	Eye	1.1	1.4	1.0	1.6	1.4	
C70-72	Central nervous system	7.9	8.4	9.2	10.6	11.8	
C73	Thyroid gland	1.8	2.2	2.2	2.6	2.5	
C37, C74-75	Other endocrine glands	0.6	1.2	1.4	1.7	2.2	
C39, C76, C80	Other or unspecified	6.4	9.3	10.7	11.7	14.2	
C81-96	Lymphoid/haematopoietic tissue	28.4	31.5	33.8	37.3	39.5	
C81	Hodgkin lymphoma	3.3	3.6	3.5	3.5	2.8	
C82-86, C96	Non-Hodgkin lymphoma	7.0	7.7	8.8	9.7	12.5	
C88	Immunoproliferative disease	0.0	0.2	0.4	0.5	0.6	
C90	Multiple myeloma	6.0	6.7	8.2	9.5	9.3	
C91-95	Leukaemia	12.0	13.3	12.9	14.0	14.4	
しぇープン	LEUKAEIIIIA	12.0	13.3	12.9	14.0	14.4	

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91
712.6	740.4	720.6	673.7	628.1	590.8	536.4
16.1	15.6	14.0	13.0	13.9	14.3	14.6
2.1	2.5	3.0	2.4	2.9	3.6	5.0
4.6	4.7	4.2	4.1	4.6	5.0	4.7
1.4	1.5	1.0	1.1	1.3	1.0	1.0
6.6	5.7	4.6	3.9	3.2	2.6	1.9
0.4	0.4	0.4	0.5	0.5	0.6	0.6
0.9	0.8	0.9	1.1	1.4	1.4	1.5
144.9	150.2	144.7	142.7	140.7	138.8	140.0
9.2	8.7	7.6	7.3	6.6	6.1	6.0
10.2	12.9	14.7	17.5	21.2	25.7	30.7
4.7	4.3	3.5	2.6	2.7	1.8	1.5
56.6	59.5	57.5	54.6	52.2	48.3	44.9
30.1	33.6	32.9	34.4	33.0	32.0	30.5
1.3	1.0	1.0	1.0	0.9	1.1	0.6
8.8	7.1	5.2	4.2	3.8	3.1	3.5
3.0	3.6	3.3	3.3	3.5	3.1	2.9
18.6	17.1	16.6	16.3	15.3	16.0	17.1
2.4	2.3	2.3	1.4	1.7	1.6	2.3
68.6	75.4	79.0	80.4	77.3	76.9	71.7
1.0	1.1	1.1	1.1	1.1	1.2	1.3
3.3	4.1	4.5	5.4	5.7	5.8	6.0
63.7	69.7	73.0	73.2	69.6	69.1	64.0
0.5	0.5	0.5	0.6	0.8	0.8	0.4
1.2	1.1	1.2	1.2	1.0	1.0	1.0
44.9	40.8	32.6	25.7	24.2	22.8	21.1
59.7	46.5	41.4	36.8	32.8	28.7	24.6
2.6	2.9	3.3	3.5	3.1	2.5	2.1
0.2	0.2	0.3	0.2	0.3	0.3	0.4
2.5	2.9	2.8	2.7	2.6	2.6	2.3
1.1	1.2	0.9	0.8	0.9	0.7	0.8
197.8	224.6	228.8	201.2	178.5	151.5	123.2
184.3	210.2	214.7	188.5	166.7	140.8	114.1
11.0	11.9	12.0	10.6	10.1	8.9	7.5
2.5	2.5	2.1	2.2	1.7	1.8	1.5
72.7	74.4	67.8	65.5	60.2	62.2	58.7
22.5	23.1	20.5	17.9	15.6	14.7	14.5
50.2	51.2	47.4	47.6	44.6	47.5	44.2
1.6	1.6	1.4	1.7	1.4	1.6	1.2
16.9	20.3	22.1	20.8	17.6	14.9	12.8
5.1	4.5	3.1	2.8	2.4	2.2	2.7
3.3	4.8	5.7	4.4	3.3	2.8	2.2
6.3	6.8	8.6	12.4	16.2	19.0	16.7
67.2	66.7	62.8	57.8	51.9	48.1	40.3
3.0	3.4	3.3	3.2	2.7	2.4	2.5
21.7	22.6	21.4	19.3	18.0	17.0	14.9
2.2	2.0	1.6	1.7	1.7	1.1	0.5
11.3	10.2	10.1	9.5	9.0	9.4	9.1
29.0	28.5	26.4	24.2	20.5	18.2	13.4

Table 5.16: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and five-year period, 1962–2021, **females**

ICD-10	Site	1962-66	1967-71	1972-76	1977-81	1982-86
C00-96	All sites	292.8	313.4	334.5	358.5	381.5
C00-14	Mouth, pharynx	4.5	4.4	4.4	4.6	4.9
C00	Lip	0.3	0.4	0.4	0.5	0.7
C02-06	Oral cavity	1.5	2.1	1.9	2.3	2.4
C07-08	Salivary glands	0.8	0.8	0.7	0.7	0.6
C09-10, C01, C14	Oropharynx	0.9	0.5	0.8	0.6	0.6
C11	Nasopharynx	0.3	0.3	0.3	0.2	0.2
C12-13	Hypopharynx	0.6	0.4	0.4	0.2	0.3
C15-26	Digestive organs	98.6	95.4	93.9	101.1	99.9
C15	0esophagus	2.3	1.7	1.6	1.6	1.6
C16	Stomach	36.8	29.4	22.9	20.1	17.8
C17	Small intestine	0.7	0.9	1.0	1.0	1.2
C18	Colon	23.6	25.6	27.7	34.4	36.1
C19-20	Rectum, rectosigmoid	8.8	12.6	14.1	17.9	18.8
C21	Anus	0.6	0.7	0.7	1.0	1.2
C22	Liver	8.0	1.3	1.5	1.8	2.1
C23-24	Gallbladder, bile ducts	3.4	3.4	3.0	3.5	3.8
C25	Pancreas	7.8	9.7	10.0	10.9	12.4
C26	Other digestive organs	13.8	10.0	11.5	8.9	4.9
C30-34, C38	Respiratory organs	6.9	9.6	10.5	12.8	16.7
C30-31	Nose, sinuses	0.8	0.9	0.7	0.6	0.7
C32	Larynx, epiglottis	0.3	0.3	0.4	0.6	0.5
C33-34	Lung, trachea	5.3	8.1	9.0	11.4	15.4
C38	Heart, mediastinum and pleura	0.4	0.3	0.5	0.3	0.2
C40-41	Bone	0.5	0.7	0.7	0.6	0.7
C43	Melanoma of the skin	5.6	7.5	11.2	14.0	18.3
C44	Skin, non-melanoma	3.0	3.8	6.9	8.0	10.7
C45	Mesothelioma	0.1	0.1	0.1	0.1	0.2
C47	Autonomic nervous system	0.5	0.8	0.4	0.3	0.3
C48-49	Soft tissues	1.7	1.6	2.4	2.2	2.2
C50	Breast	65.5	69.6	75.5	77.9	85.7
C51-58	Female genital organs	56.9	63.2	66.3	66.2	64.6
C51-52, C57.7-9	Other female genital	3.9	3.5	4.0	4.1	3.9
C53	Cervix uteri	21.1	23.1	24.9	21.5	17.8
C54	Corpus uteri	12.9	14.7	16.9	19.0	19.6
C55	Uterus, other	1.2	1.0	0.4	0.5	0.3
C56, C57.0-4, C48.2	Ovary etc.	17.7	20.7	20.0	21.0	22.8
C58	Placenta	0.2	0.2	0.1	0.1	0.1
C64-68	Urinary organs	14.2	15.6	17.2	18.4	19.3
C64	Kidney (excl. renal pelvis)	5.4	6.5	6.1	6.7	7.2
C65-68	Urinary tract	8.8	9.1	11.1	11.7	12.0
C69	Eye	0.9	1.0	1.1	1.1	1.1
C70-72	Central nervous system	6.8	7.1	7.9	9.5	11.1
C73	Thyroid gland	3.8	5.2	6.1	6.9	7.0
C37, C74-75	Other endocrine glands	0.4	0.7	0.9	1.7	2.3
C39, C76, C80	Other or unspecified	4.3	5.9	6.1	8.7	10.3
C81-96	Lymphoid/haematopoietic tissue	18.6	21.3	23.0	24.3	26.3
C81	Hodgkin lymphoma	2.2	2.6	2.3	1.9	1.7
C82-86, C96	Non-Hodgkin lymphoma	4.6	5.7	6.1	7.3	9.4
C88	Immunoproliferative disease	0.0	0.0	0.2	0.2	0.3
C90	Multiple myeloma	3.9	4.5	5.6	6.2	6.1
C91-95	Leukaemia	7.9	8.5	8.9	8.6	8.7

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91
560.0	548.7	518.0	497.8	461.4	428.1	393.8
8.2	7.8	7.3	6.4	5.6	5.8	5.0
1.4	1.4	1.4	0.8	0.7	0.8	0.9
3.3	3.2	2.8	2.9	2.6	2.8	2.6
1.0	1.0	1.0	0.8	0.9	0.9	0.6
2.2	1.8	1.7	1.4	1.1	0.9	0.6
0.2	0.2	0.2	0.2	0.1	0.1	0.2
0.1	0.2	0.2	0.3	0.3	0.2	0.3
108.4	111.3	105.3	102.3	99.9	97.9	96.2
2.8	2.5	2.2	2.1	2.1	1.7	1.7
5.8	6.1	7.6	9.0	9.6	12.1	14.7
3.3	2.5	2.5	2.1	1.9	1.3	1.4
52.5	53.9	49.6	47.7	45.6	42.9	38.7
18.3	20.2	20.2	20.3	20.1	19.6	18.5
2.3	2.4	1.8	1.9	1.6	1.7	1.4
4.3	3.4	2.6	1.9	1.9	1.8	1.8
2.9	3.4	3.3	3.0	3.3	3.0	3.2
14.1	14.4	13.6	13.3	12.9	12.9	12.1
2.1	2.4	1.8	1.1	0.9	1.1	2.7
55.8	54.3	49.3	41.6	34.7	28.8	22.6
0.6	0.7	0.8	0.7	0.6	0.7	0.6
0.7	0.8	0.8	0.7	0.9	0.9	0.5
54.5	52.7	47.5	40.0	32.8	26.8	21.2
0.1	0.2	0.3	0.2	0.3	0.3	0.2
0.8	1.0	1.0	0.8	0.8	0.8	0.6
39.7	36.6	29.6	24.9	22.8	22.9	21.6
39.1	29.7	25.7	21.7	18.6	16.5	13.1
0.5	0.5	0.5	0.5	0.4	0.4	0.3
0.2	0.2	0.2	0.2	0.2	0.3	0.4
1.8	2.0	2.5	2.5	2.2	2.0	2.2
130.1	123.8	115.3	119.9	112.9	96.4	86.7
62.1	65.2	66.6	66.8	64.5	65.2	63.8
4.1	4.2	3.9	4.1	3.8	4.1	3.8
13.5	13.5	12.1	12.8	13.9	16.1	16.9
26.5	27.8	29.4	27.9	24.0	22.2	20.2
0.3	0.3	0.2	0.3	0.4	0.3	0.3
17.7	19.4	20.9	21.5	22.3	22.3	22.4
0.1	0.1	0.1	0.2	0.2	0.2	0.2
24.9	25.9	23.9 9.9	22.8	20.7	20.5	19.8
9.9	10.0		8.9	8.0	8.2	8.1
15.0	15.9	14.0	13.9	12.7	12.2	11.7 1.1
1.4	1.5	1.3	1.3	1.2	1.3	
19.3	21.8 10.3	25.7 7.8	25.8	19.4	14.7	12.5 6.4
12.3			6.5	5.5	6.3	
3.3	4.7 6.0	5.7	4.6	3.0	2.3	1.9
5.8		7.4	11.1	13.3	14.5	12.3 27.2
46.2	46.3 2.4	42.9 2.3	38.1 2.0	35.7 1.9	31.4 1.5	1.5
2.3	16.2	15.4	14.0	13.7	12.2	11.1
15.5	1.0	0.9		0.7	0.6	0.3
1 1	1.0	0.7	0.8	0.7	0.0	0.3
7.1	7.0	6.5	6.1	6.1	5.7	5.8

 Table 5.17: Average annual number of new cases by primary site and county, 2017–2021, males

ICD-10	Site	Norway	Viken	Oslo	Innlandet
C00-96	All sites	19 084	4 425	1808	1513
C00-14	Mouth, pharynx	437	103	49	32
C00	Lip	55	10	5	5
C02-06	Oral cavity	124	30	13	10
C07-08	Salivary glands	36	10	3	3
C09-10, C01, C14	Oropharynx	184	47	21	12
C11	Nasopharynx	12	2	3	0
C12-13	Hypopharynx	25	4	5	2
C15-26	Digestive organs	3 866	838	348	326
C15	Oesophagus	249	50	24	23
C16	Stomach	268	58	22	17
C17	Small intestine	128	25	13	9
C18	Colon	1 493	322	123	123
C19-20	Rectum, rectosigmoid	815	169	70	78
C21	Anus	36	8	7	3
C22	Liver	237	53	26	22
C23-24	Gallbladder, bile ducts	80	22	7	7
C25	Pancreas	498	117	48	38
C26	Other digestive organs	62	15	7	6
C30-34, C38	Respiratory organs	1849	401	157	154
C30-31	Nose, sinuses	27	5	3	4
C32	Larynx, epiglottis	91	17	10	6
C33-34	Lung, trachea	1719	374	141	143
C38	Heart, mediastinum and pleura	12	4	2	1
C40-41	Bone	33	6	4	3
C43	Melanoma of the skin	1206	301	126	85
C44	Skin, non-melanoma	1468	371	126	96
C45	Mesothelioma	68	19	4	4
C47	Autonomic nervous system	5	2	1	0
C48-49	Soft tissues	66	15	8	5
C50	Breast	30	5	3	2
C60-63	Male genital organs	5 423	1 292	527	441
C61	Prostate	5 0 5 8	1292	480	413
C62	Testis	299	61	39	23
		66	12	8	5
C60, C63	Other male genital	1948	451	179	154
	Urinary organs				
C64 C65-68	Kidney (excl. renal pelvis)	619	144	55	46
	Urinary tract	1329	307	124	108
C69	Eye	43	10	4	4
C70-72	Central nervous system	456	103	48	31
C73	Thyroid gland	140	29	18	7
C37, C74-75	Other endocrine glands	90	26	7	5
C39, C76, C80	Other or unspecified	155	39	11	14
C81-96	Lymphoid/haematopoietic tissue	1801	414	186	149
C81	Hodgkin lymphoma	84	19	9	6
C82-86, C96	Non-Hodgkin lymphoma	586	125	61	51
C88	Immunoproliferative disease	57	12	6	2
C90	Multiple myeloma	304	75	28	28
C91-95	Leukaemia	770	183	82	62

1 25 24 5 2 2 7 6 6 4 1 1 3 13 12 1 0 1 2 2 1 7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 0 0 0 4 3 1 0 0 0 4 3		Romsdal				Vestfold og Telemark
5 2 2 7 6 6 4 1 1 3 13 12 1 0 1 2 2 1 7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 0 0 0 5 4 3 1 59 46 4 3 1 0 0 0 5 4 5 2 2	1 590	1 002	2 334	1 726	1091	1714
7 6 6 4 1 1 3 13 12 1 0 1 2 2 1 7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 1 </td <td>31</td> <td>22</td> <td>48</td> <td>34</td> <td>27</td> <td>41</td>	31	22	48	34	27	41
4 1 1 3 13 12 1 0 1 2 2 1 7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 1 7 6 7 </td <td>5</td> <td>3</td> <td>7</td> <td>7</td> <td>5</td> <td>6</td>	5	3	7	7	5	6
3 13 12 1 0 1 2 2 1 7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	7	8	13	10	9	13
1 0 1 2 2 1 7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 0 0 0 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 3	4	1	5	2	4	2
2 2 1 7 222 191 4 13 10 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 3 1 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	13	9	20	12	9	16
7 222 191 4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 1 7 2 2 7 2	1	1	1	1	0	1
4 13 10 3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 3 1 0 0 0 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 1 7 2 2 7 2 2 7 2 1	2	1	3	2	1	3
3 20 19 3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 1 7 2 7 2 3 1 1 4 3 1 5 2	347	235	491	317	213	339
3 6 7 3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	24	12	25	25	18	23
3 84 66 5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	23	17	36	18	14	24
5 52 39 2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	13	9	18	11	6	12
2 2 2 2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	133	99	201	126	81	135
2 12 11 6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	75	46	109	70	39	68
6 3 5 4 28 29 4 2 4 5 105 110 2 1 1 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	2	2	3	3	1	3
4 28 29 4 2 4 5 105 110 2 1 1 7 6 4 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	22	14	23	16	16	21
4 2 4 5 105 110 2 1 1 7 6 4 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	6	5	12	5	3	6
5 105 110 2 1 1 7 6 4 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	44	26	57	39	29	42
2 1 1 7 6 4 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	4	4	7	4	5	6
2 1 1 7 6 4 7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	135	108	227	165	122	165
7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	2	1	3	2	2	2
7 98 104 0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	7	6	13	6	5	12
0 1 0 4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	127	101	211	157	115	149
4 1 2 4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	0	0	1	1	1	2
4 37 41 1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	4	1	5	3	2	2
1 59 46 4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	114	40	149	105	80	125
4 3 1 0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	111	43	199	141	111	165
0 0 0 5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31		3	9	6	7	6
5 4 5 2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	0	0	1	1	0	0
2 2 2 5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	5	5	6	5	4	6
5 297 235 7 283 213 3 12 16 5 2 7 2 115 100 4 34 31		2	4	3	3	2
7 283 213 3 12 16 5 2 7 2 115 100 4 34 31	445	283	642	548	275	435
3 12 16 5 2 7 2 115 100 4 34 31	417	262	598	515	253	403
5 2 7 2 115 100 4 34 31	23	16	35	29	19	26
2 115 100 4 34 31		5	8	5	3	6
4 34 31	162	122	221	158	106	179
	54	35	75	50	38	56
8 81 69	108	87	147	108	68	123
	4	3	6	3	2	4
	37	18	55	48	28	41
	14	5	18	9	10	13
	5	3	14	11	3	7
	11	10	19	11	9	18
	156	100	219	158	90	166
	7	5	11	6	6	8
	52	34	72	51	32	50
	6	4	6	5	1	7
	25	17	37	24	13	32
	66	40	94	72	38	68

Table 5.18: Average annual number of new cases by primary site and county, 2017–2021, females

ICD-10	Site	Norway	Viken	Oslo	Innlandet
C00-96	All sites	16 471	3 855	1700	1296
C00-14	Mouth, pharynx	243	55	28	20
C00	Lip	43	8	4	3
C02-06	Oral cavity	99	20	11	8
C07-08	Salivary glands	31	10	4	2
C09-10, C01, C14	Oropharynx	61	15	7	7
C11	Nasopharynx	5	1	1	0
C12-13	Hypopharynx	4	1	2	0
C15-26	Digestive organs	3 297	730	325	285
C15	Oesophagus	86	19	11	8
C16	Stomach	175	39	20	13
C17	Small intestine	98	22	10	9
C18	Colon	1 612	358	149	136
C19-20	Rectum, rectosigmoid	543	114	54	46
C21	Anus	67	16	8	4
C22	Liver	129	29	14	15
C23-24	Gallbladder, bile ducts	89	19	10	10
C25	Pancreas	434	100	42	38
C26	Other digestive organs	65	16	7	7
C30-34, C38	Respiratory organs	1 698	390	165	138
C30-31	Nose, sinuses	18	4	3	3
C32	Larynx, epiglottis	19	3	3	1
C33-34	Lung, trachea	1 658	382	158	134
C38	Heart, mediastinum and pleura	4	1	1	0
C40-41	Bone	23	6	3	1
C43	Melanoma of the skin	1 139	262	111	79
C44	Skin, non-melanoma	1 2 4 1	301	101	71
C45	Mesothelioma	14	3	2	2
C47	Autonomic nervous system	4	1	0	0
C48-49	Soft tissues	51	13	8	5
C50	Breast	3 657	905	421	277
C51-58	Female genital organs	1791	421	185	156
C51-52, C57.7-9	Other female genital	123	29	11	10
C53	Cervix uteri	361	84	46	30
C54	Corpus uteri	778	180	76	73
C55	Uterus, other	9	2	1	1
C56, C57.0-4, C48.2	Ovary etc.	518	126	50	42
C58	Placenta	2	0	0	0
C64-68	Urinary organs	749	175	63	61
C64	Kidney (excl. renal pelvis)	291	70	19	24
C65-68	Urinary tract	458	105	44	37
C 69	Eye	41	10	4	4
C70-72	Central nervous system	544	122	58	43
C73	Thyroid gland	332	73	49	18
C37, C74-75	Other endocrine glands	89	24	9	5
C39, C76, C80	Other or unspecified	184	40	16	17
C81-96	Lymphoid/haematopoietic tissue	1373	324	151	112
			4.5	8	5
C81	Hodgkin lymphoma	61	15		
C82-86, C96	Non-Hodgkin lymphoma	461	96	46	38
C82-86, C96 C88	Non-Hodgkin lymphoma Immunoproliferative disease	461 34	96 6	46 4	38 2
C82-86, C96	Non-Hodgkin lymphoma	461	96	46	38

Troms og Finnmark	Nordland	Trøndelag	Møre og Romsdal	Vestland	Rogaland	Agder	Vestfold og Telemark
755	832	1 415	808	1 955	1 380	978	1 496
12	13	24	11	26	19	13	21
1	1	6	2	5	4	3	4
7	6	8	5	13	8	4	8
1	2	2	1	3	2	2	2
3	4	6	2	4	4	3	7
0	0	0	0	1	1	0	0
0	0	0	0	0	0	0	1
158	191	294	195	400	243	183	292
4	5	8	5	7	5	6	9
10	12	17	10	23	9	11	12
2	5	9	6	13	8	6	9
75	92	145	103	193	124	92	145
25	32	54	32	70	39	24	53
3	5	4	2	8	6	3	9
8	6	13	5	14	10	7	9
6	4	9	3	11	8	4	6
22	27	32	24	56	31	26	37
3	4	5	4	6	4	4	4
91	99	147	91	182	142	112	140
0	1	2	0	1	2	1	2
1	2	2	1	2	1	1	1
89	97	143	90	179	139	110	137
0	0	0	0	1	0	0	0
1	1	2	2	3	2	1	1
40	35	119	44	136	108	88	118
42	46	85	32	182	129	108	143
0	1	1	1	1	2	1	1
0	0	1	0	0	0	0	1
2	2	4	3	3	4	4	4
151	166	305	193	411	319	200	309
84	85	149	78	223	145	104	162
5	8	12	5	15	8	7	12
16	16	28	13	43	33	18	33
33	36	68	34	103	59	48	68
1	0	0	1	1	0	1	1
27	23	41	24	61	44	31	48
1	0	0	0	0	0	0	0
45	52	67	37	79	57	40	73
16	19	28	14	36	23	16	27
29	33	39	24	42	34	25	46
2	2	4	1	5	3	2	3
29	30	41	21	72	52	26	50
18	19	37	14	39	21	13	30
5	4	4	2	14	10	4	7
9	14	13	9	23	14	11	19
66	71	117	73	157	110	69	122
3	2	5	3	7	5	4	3
26	27	42	24	56	37	26	42
1	3	5	2	4	3	1	3
10	15	15	10	24	17	9	20
26	24	49	34	66	48	28	55

Table 5.19: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and county, 2017–2021, **males**

ICD-10	Site	Norway	Viken	Oslo	Innlandet
C00-96	All sites	712.6	713.9	706.0	670.1
C00-14	Mouth, pharynx	16.1	16.0	18.4	14.2
C00	Lip	2.1	1.6	2.2	2.0
C02-06	Oral cavity	4.6	4.7	4.5	4.3
C07-08	Salivary glands	1.4	1.7	1.2	1.2
C09-10, C01, C14	Oropharynx	6.6	7.1	7.9	5.4
C11	Nasopharynx	0.4	0.4	1.0	0.2
C12-13	Hypopharynx	0.9	0.6	1.8	1.0
C15-26	Digestive organs	144.9	135.8	136.7	143.9
C15	Oesophagus	9.2	7.9	9.5	9.9
C16	Stomach	10.2	9.6	8.3	7.5
C17	Small intestine	4.7	3.9	4.4	4.2
C18	Colon	56.6	52.9	49.3	54.3
C19-20	Rectum, rectosigmoid	30.1	26.9	26.8	34.4
C21	Anus	1.3	1.2	2.8	1.3
C22	Liver	8.8	8.4	10.3	9.8
C23-24	Gallbladder, bile ducts	3.0	3.6	2.7	3.1
C25 24	Pancreas	18.6	19.0	19.9	16.7
C26	Other digestive organs	2.4	2.4	2.8	2.6
C30-34, C38	Respiratory organs	68.6	64.1	62.6	66.0
C30-31	Nose, sinuses	1.0	0.8	1.1	1.7
C32	Larynx, epiglottis	3.3	2.7	4.1	2.7
C33-34	Lung, trachea	63.7	59.8	56.6	61.3
C38	Heart, mediastinum and pleura	0.5	0.8	0.8	0.4
C40-41	Bone	1.2	1.0	1.4	1.4
C43	Melanoma of the skin	44.9	48.6	47.8	39.0
.43 .44	Skin, non-melanoma	59.7	65.7	58.4	44.4
	Mesothelioma				
C45		2.6	3.3	1.9	1.7
.47	Autonomic nervous system	0.2	0.3	0.3	0.1
	Soft tissues	2.5	2.5	2.8	2.5
:50	Breast	1.1	0.8	1.2	1.0
	Male genital organs	197.8	203.8	201.5	192.2
C61	Prostate	184.3	191.8	188.8	176.7
C62	Testis	11.0	10.1	9.5	13.5
C60, C63	Other male genital	2.5	1.9	3.3	2.0
64-68	Urinary organs	72.7	72.5	70.8	68.1
C64	Kidney (excl. renal pelvis)	22.5	22.4	20.7	20.6
C65-68	Urinary tract	50.2	50.1	50.1	47.5
169	Eye	1.6	1.6	1.4	1.8
70-72	Central nervous system	16.9	16.4	16.3	14.3
73	Thyroid gland	5.1	4.6	5.7	3.4
37, C74-75	Other endocrine glands	3.3	4.0	2.6	2.3
39, C76, C80	Other or unspecified	6.3	6.9	4.8	6.1
81-96	Lymphoid/haematopoietic tissue	67.2	66.2	71.2	67.5
C81	Hodgkin lymphoma	3.0	2.9	2.6	3.0
C82-86, C96	Non-Hodgkin lymphoma	21.7	19.6	23.2	23.1
C88	Immunoproliferative disease	2.2	2.0	2.5	1.0
C90	Multiple myeloma	11.3	12.2	10.7	12.2
C91-95	Leukaemia	29.0	29.4	32.1	28.3

Troms og Finnmark	Nordland	Trøndelag	Møre og Romsdal	Vestland	Rogaland	Agder	Vestfold og Telemark
683.0	700.2	667.0	678.8	737.3	805.2	716.1	736.5
18.4	17.5	13.2	15.0	15.0	15.6	18.1	17.4
2.0	1.4	2.2	2.0	2.2	3.3	3.2	2.5
4.4	4.2	2.9	5.5	3.9	4.6	5.9	5.8
1.0	0.8	1.4	0.8	1.6	1.0	2.8	0.8
9.1	9.3	5.4	5.8	6.1	5.2	5.7	6.7
0.9	0.3	0.5	0.5	0.3	0.4	0.0	0.4
1.0	1.4	0.8	0.5	0.8	1.0	0.5	1.1
147.3	155.8	145.7	160.2	155.3	149.9	139.8	145.7
7.8	9.5	10.2	8.1	7.8	11.7	11.6	9.7
14.4	14.1	10.1	11.9	11.8	8.8	9.0	10.9
5.4	4.3	5.6	6.1	5.5	4.9	3.8	5.4
51.3	59.0	56.0	67.9	64.0	60.7	54.2	58.4
29.6	36.1	30.8	31.1	34.2	31.6	26.0	28.7
1.2	1.4	0.9	1.5	0.9	1.5	0.8	1.2
8.4	8.5	9.5	9.8	7.4	7.4	10.4	8.7
3.6	2.2	2.5	3.1	3.7	2.7	2.0	2.6
22.5	19.6	18.3	17.9	17.7	18.4	19.3	17.7
3.0	1.2	1.7	2.9	2.3	2.1	2.7	2.4
85.4	72.6	55.9	71.6	71.6	78.3	78.7	68.9
1.1	0.9	0.7	0.7	0.8	0.9	1.3	1.0
3.2	4.0	2.7	3.8	4.0	2.6	2.7	4.8
81.1	67.3	52.4	67.1	66.4	74.5	74.1	62.1
0.0	0.4	0.1	0.0	0.3	0.3	0.5	1.0
1.3	0.5	1.7	0.6	1.4	1.3	1.4	0.9
31.2	26.8	48.2	27.7	47.0	49.0	51.6	54.0
38.3	44.1	50.6	30.7	67.0	73.4	79.2	76.0
0.7	2.1	1.6	1.9	2.9	3.1	4.7	2.7
0.0	0.2	0.1	0.0	0.3	0.2	0.0	0.2
3.5	3.0	1.9	3.4	1.9	2.1	2.5	2.5
1.2	1.3	1.0	1.3	1.4	1.3	1.8	0.6
177.4	204.3	182.7	187.3	198.7	247.0	176.2	183.1
159.4	192.1	170.7	171.3	185.1	233.3	161.5	167.4
12.8	10.7	9.8	12.1	10.9	11.5	12.6	12.9
5.2	1.5	2.2	3.9	2.7	2.3	2.1	2.9
77.3	81.0	67.9	83.2	69.8	74.3	68.6	76.9
22.7	24.1	22.5	24.2	22.8	22.5	23.9	23.8
54.6	56.9	45.4	59.0	47.0	51.8	44.8	53.0
1.4	1.4	1.8	1.9	1.8	1.3	1.4	1.6
16.9	19.1	15.9	12.6	17.3	21.0	17.9	17.8
8.3	4.8	5.8	3.3	5.7	4.1	6.3	5.6
3.9	3.4	1.9	1.9	4.4	4.6	2.3	3.0
5.1	5.4	5.2	7.1	6.3	6.0	6.7	8.4
65.3	56.8	65.8	69.0	69.5	72.7	59.1	71.3
2.9	3.1	2.8	3.4	3.3	2.5	4.2	3.6
26.1	17.4	21.4	23.1	22.6	22.7	21.5	21.6
2.6	2.9	2.7	3.0	1.8	2.3	0.5	2.9
9.0	9.3	10.7	11.6	11.8	11.0	8.4	13.5
24.7	24.1	28.2	27.8	30.0	34.3	24.5	29.7

Table 5.20: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and county, 2017–2021, **females**

ICD-10	Site	Norway	Viken	Oslo	Innlandet
C00-96	All sites	560.0	558.0	549.1	537.1
C00-14	Mouth, pharynx	8.2	7.9	9.0	8.5
C00	Lip	1.4	1.1	1.5	1.0
C02-06	Oral cavity	3.3	2.8	3.4	3.4
C07-08	Salivary glands	1.0	1.5	1.2	0.9
C09-10, C01, C14	Oropharynx	2.2	2.2	2.3	3.0
C11	Nasopharynx	0.2	0.2	0.2	0.2
C12-13	Hypopharynx	0.1	0.1	0.5	0.0
C15-26	Digestive organs	108.4	102.9	106.4	111.0
C15	Oesophagus	2.8	2.6	3.8	3.0
C16	Stomach	5.8	5.4	6.6	5.1
C17	Small intestine	3.3	3.1	3.4	3.7
C18	Colon	52.5	50.3	48.1	52.1
C19-20	Rectum, rectosigmoid	18.3	16.3	17.8	18.8
C21	Anus	2.3	2.3	2.7	1.5
C22	Liver	4.3	4.0	4.5	6.1
C23-24	Gallbladder, bile ducts	2.9	2.6	3.4	3.7
C25	Pancreas	14.1	13.9	13.9	14.4
C26	Other digestive organs	2.1	2.4	2.3	2.6
C30-34, C38	Respiratory organs	55.8	54.4	54.2	53.1
C30-31	Nose, sinuses	0.6	0.6	0.9	1.1
C32	Larynx, epiglottis	0.7	0.5	0.9	0.5
C33-34	Lung, trachea	54.5	53.2	52.0	51.3
C38	Heart, mediastinum and pleura	0.1	0.1	0.4	0.2
C40-41	Bone	0.8	0.9	0.8	0.8
C43	Melanoma of the skin	39.7	38.7	35.2	34.4
C44	Skin, non-melanoma	39.1	41.3	31.8	25.3
C45	Mesothelioma	0.5	0.4	0.7	0.9
C47	Autonomic nervous system	0.2	0.2	0.1	0.0
C48-49	Soft tissues	1.8	1.9	2.4	2.0
C50	Breast	130.1	135.2	138.1	123.9
C51-58	Female genital organs	62.1	61.7	58.7	68.5
C51-52, C57.7-9	Other female genital	4.1	4.1	3.8	4.5
C53	Cervix uteri	13.5	13.4	12.9	16.5
C54	Corpus uteri	26.5	25.8	25.3	29.6
C55	Uterus, other	0.3	0.3	0.2	0.3
C56, C57.0-4, C48.2	Ovary etc.	17.7	18.1	16.5	17.7
C58	Placenta	0.1	0.1	0.1	0.0
C64-68	Urinary organs	24.9	24.8	20.7	24.3
C64	Kidney (excl. renal pelvis)	9.9	10.1	6.2	9.8
C65-68	Urinary tract	15.0	14.7	14.5	14.5
C69	Eye	1.4	1.4	1.4	1.7
C70-72	Central nervous system	19.3	18.5	18.3	19.2
C73	Thyroid gland	12.3	11.5	14.3	9.3
C37, C74-75	Other endocrine glands	3.3	3.8	3.0	2.3
C39, C76, C80	Other or unspecified	5.8	5.5	5.2	6.4
C81-96	Lymphoid/haematopoietic tissue	46.2	46.8	48.8	45.4
C81	Hodgkin lymphoma	2.3	2.5	2.2	2.6
C82-86, C96	Non-Hodgkin lymphoma	15.5	13.6	15.2	15.1
C88	Immunoproliferative disease	1.1	0.9	1.4	0.7
C90	Multiple myeloma	7.1	7.9	7.1	7.4
C91-95	Leukaemia	20.3	21.9	22.9	19.5

Troms og Finnmark	Nordland	Trøndelag	Møre og Romsdal	Vestland	Rogaland	Agder	Vestfold og Telemark
559.8	564.8	553.6	520.9	568.8	590.6	577.6	581.0
8.6	8.9	8.9	7.0	7.6	8.0	7.4	8.3
0.6	0.9	2.2	1.2	1.5	1.7	1.8	1.5
4.9	4.2	2.9	3.3	3.7	3.5	2.4	2.9
0.6	1.0	0.9	0.6	0.9	0.7	1.2	0.9
2.4	2.6	2.6	1.6	1.1	1.7	1.9	2.6
0.2	0.0	0.1	0.2	0.3	0.4	0.1	0.2
0.0	0.3	0.1	0.1	0.1	0.0	0.0	0.2
112.9	123.1	109.8	118.8	112.3	102.6	103.5	107.9
2.5	3.3	2.8	3.2	1.8	2.2	3.2	3.1
7.0	7.5	6.5	6.4	6.5	3.7	6.4	4.4
1.7	3.3	3.5	3.9	3.7	3.3	3.6	3.4
53.0	58.4	53.1	61.7	53.7	52.0	52.1	53.0
18.3	21.7	20.3	20.7	20.5	16.6	13.9	20.0
2.3	3.2	1.8	1.2	2.3	2.5	1.5	3.6
6.0	3.9	5.0	2.9	3.9	4.4	3.8	3.3
4.0	2.5	3.3	2.1	3.0	3.3	2.1	2.2
15.9	16.8	11.8	14.3	15.3	13.0	14.5	13.5
2.2	2.6	1.8	2.4	1.7	1.7	2.4	1.4
63.8	63.7	54.8	56.1	51.5	61.1	64.2	51.6
0.1	0.4	0.6	0.3	0.3	0.7	0.3	0.7
1.1	1.1	0.8	0.5	0.6	0.5	0.8	0.5
62.5	62.2	53.5	55.2	50.5	59.8	62.9	50.4
0.2	0.0	0.0	0.2	0.2	0.0	0.1	0.0
1.1	0.8	0.9	1.1	0.9	0.9	0.6	0.6
30.4	26.2	48.7	29.3	40.1	46.7	54.8	47.6
30.3	28.7	30.8	18.1	47.4	53.8	59.5	50.3
0.1	0.7	0.3	0.8	0.2	0.7	0.3	0.3
0.1	0.2	0.4	0.2	0.0	0.2	0.1	0.6
1.3	1.4	1.6	1.8	1.0	1.8	2.2	1.7
117.5	121.3	125.9	133.8	127.2	138.9	124.0	126.9
64.3	59.4	59.9	52.4	66.3	62.4	63.0	65.2
3.8	5.5	4.4	3.2	4.1	3.5	4.2	4.5
14.1	13.4	12.4	10.6	13.8	14.4	11.8	15.5
25.2	24.6	26.5	22.2	30.2	25.4	27.9	26.0
0.8	0.0	0.2	0.4	0.2	0.2	0.6	0.3
	15.9	16.3	16.0	18.0	18.9	18.4	18.6
20.0	0.0	0.0	0.0	0.0	0.0		
20.0						0.1	0.1
0.5						0.1 23.2	0.1 26.9
0.5 32.3	33.8	25.5	22.8	22.3	24.5	23.2	26.9
0.5 32.3 11.8	33.8 12.9	25.5 11.0	22.8 8.7	22.3 10.5	24.5 10.1	23.2 9.3	26.9 10.4
0.5 32.3 11.8 20.5	33.8 12.9 20.9	25.5 11.0 14.5	22.8 8.7 14.1	22.3 10.5 11.8	24.5 10.1 14.4	23.2 9.3 13.9	26.9 10.4 16.5
0.5 32.3 11.8 20.5 1.7	33.8 12.9 20.9 1.4	25.5 11.0 14.5 1.8	22.8 8.7 14.1 1.0	22.3 10.5 11.8 1.5	24.5 10.1 14.4 1.1	9.3 13.9 1.0	26.9 10.4 16.5 1.4
0.5 32.3 11.8 20.5 1.7 22.2	33.8 12.9 20.9 1.4 21.5	25.5 11.0 14.5 1.8 17.0	22.8 8.7 14.1 1.0 14.6	22.3 10.5 11.8 1.5 22.2	24.5 10.1 14.4 1.1 22.2	9.3 13.9 1.0 16.4	26.9 10.4 16.5 1.4 21.1
0.5 32.3 11.8 20.5 1.7 22.2 15.0	33.8 12.9 20.9 1.4 21.5	25.5 11.0 14.5 1.8 17.0	22.8 8.7 14.1 1.0 14.6 10.2	22.3 10.5 11.8 1.5 22.2 12.7	24.5 10.1 14.4 1.1 22.2 9.3	9.3 13.9 1.0 16.4 8.5	26.9 10.4 16.5 1.4 21.1 13.6
0.5 32.3 11.8 20.5 1.7 22.2 15.0 4.0	33.8 12.9 20.9 1.4 21.5 15.0 3.1	25.5 11.0 14.5 1.8 17.0 15.8	22.8 8.7 14.1 1.0 14.6 10.2	22.3 10.5 11.8 1.5 22.2 12.7 4.5	24.5 10.1 14.4 1.1 22.2 9.3 4.4	23.2 9.3 13.9 1.0 16.4 8.5 2.6	26.9 10.4 16.5 1.4 21.1 13.6 3.0
0.5 32.3 11.8 20.5 1.7 22.2 15.0 4.0 6.2	33.8 12.9 20.9 1.4 21.5 15.0 3.1 8.2	25.5 11.0 14.5 1.8 17.0 15.8 1.6 4.5	22.8 8.7 14.1 1.0 14.6 10.2 1.7 4.8	22.3 10.5 11.8 1.5 22.2 12.7 4.5 5.8	24.5 10.1 14.4 1.1 22.2 9.3 4.4 5.7	9.3 13.9 1.0 16.4 8.5 2.6 6.0	26.9 10.4 16.5 1.4 21.1 13.6 3.0 6.9
0.5 32.3 11.8 20.5 1.7 22.2 15.0 4.0 6.2 47.9	33.8 12.9 20.9 1.4 21.5 15.0 3.1 8.2 47.3	25.5 11.0 14.5 1.8 17.0 15.8 1.6 4.5	22.8 8.7 14.1 1.0 14.6 10.2 1.7 4.8	22.3 10.5 11.8 1.5 22.2 12.7 4.5 5.8 45.1	24.5 10.1 14.4 1.1 22.2 9.3 4.4 5.7	9.3 13.9 1.0 16.4 8.5 2.6 6.0 40.3	26.9 10.4 16.5 1.4 21.1 13.6 3.0 6.9 47.2
0.5 32.3 11.8 20.5 1.7 22.2 15.0 4.0 6.2 47.9 2.6	33.8 12.9 20.9 1.4 21.5 15.0 3.1 8.2 47.3	25.5 11.0 14.5 1.8 17.0 15.8 1.6 4.5 45.3	22.8 8.7 14.1 1.0 14.6 10.2 1.7 4.8 46.4 2.5	22.3 10.5 11.8 1.5 22.2 12.7 4.5 5.8 45.1 2.3	24.5 10.1 14.4 1.1 22.2 9.3 4.4 5.7 46.5	9.3 13.9 1.0 16.4 8.5 2.6 6.0 40.3	26.9 10.4 16.5 1.4 21.1 13.6 3.0 6.9 47.2
0.5 32.3 11.8 20.5 1.7 22.2 15.0 4.0 6.2 47.9 2.6 18.6	33.8 12.9 20.9 1.4 21.5 15.0 3.1 8.2 47.3 1.6 18.2	25.5 11.0 14.5 1.8 17.0 15.8 1.6 4.5 45.3 2.2	22.8 8.7 14.1 1.0 14.6 10.2 1.7 4.8 46.4 2.5	22.3 10.5 11.8 1.5 22.2 12.7 4.5 5.8 45.1 2.3 16.3	24.5 10.1 14.4 1.1 22.2 9.3 4.4 5.7 46.5 2.2 15.8	9.3 13.9 1.0 16.4 8.5 2.6 6.0 40.3 2.5	26.9 10.4 16.5 1.4 21.1 13.6 3.0 6.9 47.2 1.4 16.1
0.5 32.3 11.8 20.5 1.7 22.2 15.0 4.0 6.2 47.9 2.6	33.8 12.9 20.9 1.4 21.5 15.0 3.1 8.2 47.3	25.5 11.0 14.5 1.8 17.0 15.8 1.6 4.5 45.3	22.8 8.7 14.1 1.0 14.6 10.2 1.7 4.8 46.4 2.5	22.3 10.5 11.8 1.5 22.2 12.7 4.5 5.8 45.1 2.3	24.5 10.1 14.4 1.1 22.2 9.3 4.4 5.7 46.5	9.3 13.9 1.0 16.4 8.5 2.6 6.0 40.3	26.9 10.4 16.5 1.4 21.1 13.6 3.0 6.9 47.2

Table 5.21: Average annual number of new cases for selected cancers by stage and period of diagnosis, 1962–2021, **males**

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81
		Total	188	215	244	236
		Localised	133	137	161	149
C00-14	Mouth, pharynx	Regional	44	47	67	72
		Distant	6	10	10	8
		Unknown	5	21	6	7
		Total	78	80	81	89
		Localised	46	41	37	44
C15	Oesophagus	Regional	10	13	18	18
		Distant	18	18	22	22
		Unknown	4	8	4	5
		Total	786	745	649	600
		Localised	220	183	164	177
16	Stomach	Regional	173	151	145	154
		Distant	342	328	297	233
		Unknown	50	84	43	36
		Total	306	368	416	541
		Localised	125	136	149	151
18	Colon	Regional	72	89	120	217
		Distant	97	125	132	152
		Unknown	13	19	15	20
		Total	186	270	328	448
		Localised	90	125	154	202
19-20	Rectum, rectosigmoid	Regional	50	72	90	153
20		Distant	41	59	75	83
		Unknown	6	14	8	11
		Total	23	41	54	50
		Localised	11	20	24	24
22	Liver	Regional	1	1	5	4
.22		Distant	10	16	21	16
		Unknown				
			0	4	3	5
		Total	22	27	29	38
	Gallbladder, bile ducts	Localised		9	8	11
23-24		Regional	4	3	7	9
		Distant	9	12	13	16
		Unknown	1	2	1	2
		Total	185	226	252	271
	0	Localised	54	52	49	44
25	Pancreas	Regional	21	30	33	35
		Distant	101	125	147	161
		Unknown	9	19	21	32
		Total	396	574	710	917
		Localised	136	187	225	300
33-34	Lung, trachea	Regional	84	109	132	163
		Distant	154	242	303	390
		Unknown	22	36	49	64
		Total	80	118	162	220
		Localised	53	74	127	181
43	Melanoma of the skin	Regional	11	15	16	16
		Distant	15	17	16	16
		Unknown	1	12	3	7
		Total	870	1 052	1 280	1 5 2 3
		Localised	581	654	861	1 019
.61	Prostate	Regional	31	41	73	66
		Distant	209	236	270	331
			49	122	76	107

2017-21 (%)	2017-21	2012-16	2007–11	2002-06	1997-01	1992-96	1987-91	1982-86
100.0	437	382	306	257	260	256	252	255
29.9	131	140	114	82	94	118	141	152
46.2	202	192	143	121	99	91	82	89
2.6	11	17	12	12	12	12	10	5
21.3	93	33	37	42	54	35	19	9
100.0	249	208	162	138	121	107	104	84
9.9	25	31	28	28	19	22	28	36
33.1	82	59	47	37	24	25	24	22
24.6	61	54	49	44	36	25	34	22
32.3	80	63	39	29	43	34	18	5
100.0	268	301	305	327	381	449	519	579
14.2	38	54	62	59	57	89	137	168
29.6	79	89	86	102	111	130	144	160
28.7	77	90	105	116	133	141	176	205
27.5	74	68	52	50	80	90	62	46
100.0	1 493	1378	1187	1037	947	847	760	675
17.9 52.7	267 787	255 685	173 629	186 524	161 460	218 359	235 281	200 275
23.2	347	363	323	262	248	221	210	174
6.2	93	75	61	64	77	49	34	25
100.0	815	802	697	660	601	562	52 7	514
24.3	198	189	129	167	162	199	209	218
46.7	380	390	364	283	239	211	195	184
19.6	160	158	150	131	121	104	98	92
9.4	76	65	54	80	80	48	25	21
100.0	237	169	111	82	71	59	60	68
21.9	52	51	42	25	22	20	27	33
10.8	26	19	12	8	5	3	3	6
14.8	35	39	29	20	17	11	12	19
52.5	124	60	28	29	27	26	17	10
100.0	80	84	70	63	61	53	49	47
10.0	8	10	13	11	10	11	16	16
39.6	32	40	25	22	13	10	9	10
23.6	19	21	20	18	16	15	14	16
26.9	22	13	12	13	22	17	10	5
100.0	498	401	345	310	276	280	295	297
6.9	34	30	28	24	16	32	56	59
20.2	101	87	78	72	39	34	26	41
44.6	222	208	191	164	136	130	161	155
28.4	141	77	49	50	85	84	51	42
100.0	1719	1637	1539	1 417	1 2 9 3	1 2 5 1	1 148	1 085
19.5	335	278	231	186	195	275	326	342
28.4	489	475	435	413	324	258	227	219
42.2	725	693	724	670	570	478	457	431
9.9	169	191	149	149	203	240	139	93
100.0	1 206	983	716	521	471	428	380	264
82.7	998	829	494	284	290	357	325	217
9.6	116	73	35	22	16	15	16	19
3.5	43	36	30	34	29	24	23	18
4.1	49	44	156	181	135	32	15	10
100.0	5 058	5 054	4 5 1 1	3 531	2 952	2 439	1 921	1714
52.6	2 659	2 5 0 4	2 060	1 567	913	1 117	1 200	1 098
28.9	1 461	1 3 6 0	908	253	120	104	61	64
8.3	420	375	419	419	402	390	483	440
10.2	517	815	1 123	1 293	1 5 1 7	828	177	112

Table 5.21: Average annual number of new cases for selected cancers by stage and period of diagnosis, 1962–2021, **males** (Continued)

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81	
		Total	68	78	85	115	
		Localised	44	50	46	63	
C62	Testis	Regional	4	7	17	26	
		Distant	19	18	21	24	
		Unknown	1	3	1	2	
		Total	128	158	177	211	
		Localised	69	74	75	81	
C64	Kidney (excl. renal pelvis)	Regional	17	23	39	50	
		Distant	39	56	59	75	
		Unknown	3	5	3	5	
		Total	303	359	500	607	
		Localised	256	281	395	493	
C65-68	Urinary tract	Regional	24	40	62	63	
		Distant	18	20	33	38	
		Unknown	5	18	11	14	
		Total	136	150	169	195	
C70-72	Central nervous system	Non-malignant	36	45	48	60	
		Malignant	100	105	121	135	
		Total	26	35	36	44	
		Localised	5	12	17	21	
C73	Thyroid gland	Regional	13	13	14	16	
		Distant	8	8	5	7	
		Unknown	0	1	0	1	

1982-86	1987-91	1992-96	1997-01	2002-06	2007-11	2012-16	2017-21	2017-21 (%)
149	166	204	238	247	293	312	299	100.0
83	111	141	132	141	209	259	217	72.7
41	28	35	37	45	37	32	61	20.5
23	24	22	31	25	29	20	17	5.7
2	3	6	37	36	17	1	3	1.1
250	254	268	293	356	447	570	619	100.0
111	115	132	109	163	253	401	385	62.3
50	44	39	43	39	44	51	81	13.1
79	80	66	75	84	90	77	76	12.3
10	15	31	66	70	61	41	76	12.3
711	757	832	810	904	980	1 177	1 3 2 9	100.0
581	623	633	423	498	691	1 032	1 146	86.2
63	55	45	46	78	76	77	92	7.0
28	34	28	37	40	44	43	50	3.7
39	45	127	303	287	169	24	41	3.1
221	243	289	358	440	500	505	456	100.0
70	76	128	171	242	270	255	195	42.8
152	167	161	187	198	230	250	261	57.2
46	51	42	49	60	71	112	140	100.0
20	27	19	19	19	25	53	60	42.6
17	15	12	17	26	33	45	56	39.7
8	8	9	7	7	7	7	6	4.3
1	1	2	6	8	5	7	19	13.4

Table 5.22: Average annual number of new cases for selected cancers by stage and period of diagnosis, 1962–2021, **females**

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81
		Total	69	73	80	90
		Localised	41	40	42	54
C00-14	Mouth, pharynx	Regional	23	27	29	29
		Distant	3	3	5	3
		Unknown	2	4	5	5
		Total	32	28	31	31
		Localised	21	17	15	17
C15	0esophagus	Regional	3	3	7	5
		Distant	4	6	6	7
		Unknown	3	3	3	2
		Total	532	492	419	406
		Localised	156	109	103	117
C16	Stomach	Regional	98	85	89	104
		Distant	218	233	193	150
		Unknown	60	64	34	36
		Total	359	438	513	691
		Localised	148	164	180	192
C18	Colon	Regional	84	119	154	277
		Distant	108	132	159	190
		Unknown	19	23	20	32
		Total	140	215	261	359
		Localised	67	95	122	162
C19-20	Rectum, rectosigmoid	Regional	37	59	76	116
	.	Distant	29	52	56	70
		Unknown	7	10	8	11
		Total	13	23	30	36
		Localised	6	9	16	17
22	Liver	Regional	1	1	1	1
		Distant	6	11	11	14
		Unknown	1	2	1	4
		Total	52	59	56	73
		Localised	15	14	15	22
C23-24	Gallbladder, bile ducts	Regional	8	9	11	10
.23 24	dalibiaddel, blie ducts	Distant	27	35	26	36
		Unknown	2	2	3	5
		Total	124	167	189	224
		Localised	41	41	43	44
25	Pancreas	Regional	12	19	24	30
.25	rancieas	Distant	63	89	103	125
		Unknown	8	18	103	25
		Total		143	173	228
		Localised	86			
22_24	Lung trackes		28	47	51	68
33-34	Lung, trachea	Regional	10	20	27	31
		Distant	43	65	84	108
		Unknown	5	11	11	20
		Total	93	129	200	263
. 42	Malanan (d. 12	Localised	76	91	176	236
C43	Melanoma of the skin	Regional	7	8	10	9
		Distant	8	13	11	13
		Unknown	3	17	3	6

2017-21 (%)	2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91	1982-86
100.0	243	212	184	152	128	130	108	103
42.0	102	98	82	54	49	69	66	55
33.8	82	88	71	60	40	36	32	40
2.3	6	5	5	5	6	4	4	3
21.9	53	20	26	33	33	20	6	5
100.0	86	71	59	53	50	40	39	35
13.6	12	14	15	12	9	9	13	16
27.6	24	14	15	14	8	6	8	8
18.2	16	16	13	12	11	6	9	5
40.7	35	27	17	15	23	18	9	4
100.0	175	171	205	230	242	295	341	387
14.2	25	29	46	42	41	65	101	119
23.9	42	40	45	64	62	72	87	97
29.6	52	51	72	82	79	94	113	127
32.4	57	51	42	42	60	64	41	45
100.0	1 612	1516	1 3 1 3	1 205	1 115	1 0 1 5	883	785
17.6	283	264	199	221	200	270	273	222
52.5	846	800	718	612	549	429	347	338
22.2	358	355	322	290	259	236	219	190
7.7	125	98	74	82	108	80	45	35
100.0	543	554	519	497	476	455	422	405
25.6	139	145	108	131	135	163	184	170
45.3	246	252	256	211	184	160	136	141
18.9	103	105	105	91	88	78	72	73
10.2	56	51	50	65	70	53	30	21
100.0	129	95	69	47	47	42	42	44
18.9	24	27	23	13	10	12	18	18
12.5	16	11	9	6	5	2	2	3
18.3	24	22	17	8	11	8	10	14
50.3	65	34	19	20	21	20	12	9
100.0	89	95	87	78	80	73	75	82
9.9	9	10	14	14	9	16	23	24
31.5	28	37	25	18	14	12 22	14	21 29
31.1	28	32	33	26	28		23	9
27.5 100.0	24 434	15 404	14 363	19	28 326	23 311	15 282	274
6.5	28	404	42	340 30	24	40	67	59
19.5	85	88	77	67	40	32	28	35
39.5	171	183	181	168	144	129	133	137
34.5	150	92	63	74	117	110	54	43
100.0	1658	1 433	1184	927	724	579	451	321
23.2	384	288	217	137	98	119	115	81
26.4	437	375	300	245	167	118	84	59
40.0	663	597	550	448	336	224	197	148
10.5	174	174	116	97	123	117	54	33
10.3	1139	973	735	581	512	490	443	361
87.7	999	867	532	337	328	426	408	321
7.0	80	44	26	17	11	10	12	16
2.2	25	23	17	20	21	17	11	13
۷.۷	35	40	160	207	152	36	12	11

Table 5.22: Average annual number of new cases for selected cancers by stage and period of diagnosis, 1962–2021, **females** (Continued)

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81	
		Total	1 071	1 218	1 381	1 493	
		I	505	584	699	800	
C50	Breast	II	348	384	421	425	
C30	biedst	III	93	77	107	93	
		IV	97	119	110	110	
		Unknown	27	52	44	65	
		Total	359	403	441	400	
		I	144	199	235	206	
C53	Cervix uteri	II	135	124	112	85	
(33	Cervix uteri	III	48	47	59	55	
		IV	22	19	24	23	
		Unknown	11	14	11	30	
		Total	222	268	324	369	
		Localised	184	212	269	284	
C54	Corpus uteri	Regional	13	15	23	45	
	-	Distant	23	36	29	32	
		Unknown	2	5	3	9	
		Total	300	372	377	408	
		Localised	99	120	129	97	
C56, C57.0-4, C48.2	Ovary etc.	Regional	15	22	22	38	
	·	Distant	177	218	219	262	
		Unknown	9	12	7	11	
		Total	90	117	118	138	
		Localised	52	62	60	64	
C64	Kidney (excl. renal pelvis)	Regional	9	16	23	27	
	, ,	Distant	27	35	31	43	
		Unknown	2	4	4	4	
		Total	135	156	209	239	
		Localised	86	103	140	169	
C65-68	Urinary tract	Regional	22	22	30	33	
	•	Distant	20	22	28	22	
		Unknown	7	9	11	14	
		Total	118	131	151	186	
C70-72	Central nervous system	Non-malignant	56	58	61	83	
		Malignant	62	72	90	103	
		Total	61	91	111	132	
		Localised	29	48	67	83	
C73	Thyroid gland	Regional	22	27	28	32	
	,.cio giono	Distant	8	11	13	13	
		Unknown	1	4	2	4	

1982-86	1987-91	1992-96	1997-01	2002-06	2007-11	2012-16	2017-21	2017-21 (%)
1 720	1 820	2 073	2 462	2 740	2 819	3 251	3 657	100.0
803	313	470	795	1 077	1 200	1 443	1 589	43.4
547	689	653	949	1 130	990	1 057	1 085	29.7
108	113	74	131	166	251	362	364	10.0
111	125	120	136	134	114	120	159	4.3
152	581	757	451	233	264	269	461	12.6
354	346	345	310	300	295	344	361	100.0
190	127	127	160	155	137	139	182	50.3
71	70	58	63	55	63	65	50	14.0
53	41	33	35	30	21	25	40	11.0
20	14	15	21	23	21	20	27	7.5
19	94	112	32	36	52	96	62	17.2
390	412	467	526	649	723	746	778	100.0
292	301	327	326	397	521	553	556	71.5
46	47	47	58	78	58	51	79	10.2
39	50	60	70	84	97	94	75	9.6
12	14	33	72	90	47	47	68	8.7
455	464	477	495	506	519	518	518	100.0
119	130	122	98	94	107	108	104	20.0
35	21	16	14	14	19	18	39	7.5
284	296	307	326	346	351	362	339	65.5
17	17	32	58	53	42	30	36	7.0
156	181	190	189	216	250	269	291	100.0
69	92	100	72	100	143	189	178	61.3
34	26	22	20	23	21	20	34	11.8
46	48	44	50	41	44	30	32	11.1
8	15	25	47	51	42	30	46	15.8
264	266	291	309	350	366	446	458	100.0
197	204	194	136	180	243	366	361	78.8
30	21	22	24	37	35	36	50	11.0
17	20	18	26	25	25	21	23	5.0
20	20	56	123	108	63	22	24	5.2
224	260	316	435	596	631	571	544	100.0
104	137	187	291	434	461	402	356	65.4
121	123	129	143	163	170	169	188	34.6
143	135	137	124	153	190	265	332	100.0
97	89	83	56	71	102	161	196	59.2
33	33	37	39	47	61	80	86	26.0
10	9	10	11	10	7	10	6	1.9
3	4	7	19	25	20	14	43	12.9

Table 5.23: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years for selected cancers by stage and period of diagnosis, 1962–2021, **males**

CD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81
		Total	14.5	15.3	15.8	14.7
		Localised	10.5	9.7	10.5	9.4
00-14	Mouth, pharynx	Regional	3.2	3.3	4.4	4.4
		Distant	0.5	0.7	0.6	0.5
		Unknown	0.3	1.5	0.4	0.5
		Total	6.1	5.8	5.5	5.6
		Localised	3.8	3.1	2.6	2.9
5	Oesophagus	Regional	0.7	0.9	1.1	1.0
		Distant	1.2	1.3	1.4	1.3
		Unknown	0.4	0.6	0.3	0.4
		Total	61.1	54.4	44.2	38.3
		Localised	18.3	14.3	11.9	11.9
6	Stomach	Regional	12.3	10.0	9.3	9.4
		Distant	25.3	22.5	19.2	14.3
		Unknown	5.2	7.6	3.8	2.7
		Total	23.8	26.5	28.3	34.7
		Localised	9.9	10.1	10.2	9.9
8	Colon	Regional	5.1	6.1	7.9	13.6
		Distant	7.4	8.7	8.9	9.5
		Unknown	1.4	1.7	1.3	1.6
		Total	14.2	19.2	21.8	28.5
		Localised	6.9	9.1	10.5	13.3
9-20	Rectum, rectosigmoid	Regional	3.7	4.8	5.8	9.2
	, 3	Distant	3.0	4.1	4.9	5.1
		Unknown	0.7	1.2	0.7	0.9
		Total	1.6	2.8	3.4	3.0
		Localised	0.8	1.4	1.5	1.4
2	Liver	Regional	0.1	0.1	0.4	0.2
_		Distant	0.7	1.0	1.3	1.0
		Unknown	0.0	0.3	0.2	0.3
		Total	1.6	1.9	2.0	2.5
		Localised	0.6	0.6	0.5	0.8
3-24	Gallbladder, bile ducts	Regional	0.3	0.2	0.5	0.5
	completely one docts	Distant	0.8	0.8	0.9	1.1
		Unknown	0.0	0.2	0.1	0.1
		Total	13.6	15.6	16.4	16.8
		Localised	4.1	3.7	3.3	2.9
5	Pancreas	Regional	1.6	2.0	2.2	2.1
	1 01101005	Distant	7.2	8.6	9.5	9.7
		Unknown	0.7	1.4	1.4	2.1
		Total	26.6	36.2	42.6	53.0
		Localised	9.2	11.8	13.6	17.5
3-34	Lung, trachea	Regional	5.4	6.6	7.6	9.1
. J.	rong, dodied	Distant	10.3	15.2	18.2	22.3
		Unknown	1.6	2.6	3.1	4.1
		Total	5.3	7.5	9.8	12.9
		Localised	3.6	4.7	7.6	10.6
13	Melanoma of the skin	Regional				
	meianonia oi tile skill	Distant	0.7 1.0	0.9 1.1	1.0 1.0	1.0 0.9

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91	1982-86
16.1	15.6	14.0	13.0	13.9	14.3	14.6	15.1
4.9	5.8	5.3	4.2	5.1	6.5	8.3	9.1
7.3	7.7	6.3	6.0	5.2	5.1	4.6	5.2
0.4	0.7	0.6	0.6	0.6	0.6	0.5	0.3
3.5	1.4	1.8	2.2	3.0	2.0	1.2	0.6
9.2	8.7	7.6	7.3	6.6	6.1	6.0	5.0
0.9	1.3	1.3	1.5	1.0	1.3	1.7	2.2
3.0	2.4	2.2	1.9	1.3	1.4	1.3	1.2
2.2	2.2	2.3	2.3	1.9	1.4	1.9	1.2
3.0	2.7	1.8	1.6	2.4	2.0	1.1	0.3
10.2	12.9	14.7	17.5	21.2	25.7	30.7	35.6
1.4	2.3	3.1	3.2	3.2	5.1	8.6	11.1
3.0	3.8	4.0	5.3	6.0	7.2	7.9	9.2
2.8	3.8	5.0	6.1	7.3	7.8	10.1	11.9
3.0	3.0	2.6	2.9	4.8	5.6	4.0	3.3
56.6	59.5	57.5	54.6	52.2	48.3	44.9	41.0
10.1	10.9	8.3	9.8	8.8	12.3	13.7	12.3
29.6	29.5	30.6	27.5	25.2	20.5	16.5	16.4
12.9	15.5	15.4	13.6	13.5	12.3	12.4	10.4
3.9	3.7	3.2	3.6	4.6	3.2	2.3	1.9
30.1	33.6	32.9	34.4	33.0	32.0	30.5	30.7
7.3	7.9	6.1	8.8	8.8	11.3	12.1	13.3
13.9	16.3	17.1	14.5	12.9	11.7	11.1	10.5
5.9	6.5	7.0	6.8	6.6	5.8	5.6	5.4
2.9	2.9	2.7	4.3	4.6	3.1	1.7	1.5
8.8	7.1	5.2	4.2	3.8	3.1	3.5	4.0
1.9	2.1	2.0	1.3	1.2	1.1	1.6	2.0
0.9	0.7	0.5	0.4	0.3	0.1	0.2	0.4
1.3	1.6	1.3	1.0	0.9	0.6	0.7	1.1
4.7	2.6	1.3	1.5	1.5	1.4	1.0	0.6
3.0	3.6	3.3	3.3	3.5	3.1	2.9	2.8
0.3	0.5	0.6	0.6	0.5	0.6	1.0	1.0
1.2	1.6	1.2	1.1	0.7	0.6	0.5	0.5
0.7	0.9	1.0	0.9	0.9	0.8	0.7	0.9
0.9	0.6	0.6	0.7	1.3	1.0	0.6	0.3
18.6	17.1	16.6	16.3	15.3	16.0	17.1	18.1
1.3	1.3	1.4	1.3	0.9	2.0	3.3	3.9
3.6	3.6	3.7	3.7	2.1	1.8	1.5	2.4
8.1	8.7	9.0	8.5	7.4	7.1	9.2	9.0
5.6	3.5	2.5	2.8	4.9	5.0	3.1	2.8
63.7	69.7	73.0	73.2	69.6	69.1	64.0	61.6
12.2	11.7	11.0	9.5	10.5	15.0	18.1	19.5
17.8	19.9	20.6	21.2	17.1	14.0	12.4	12.2
26.7	29.3	34.0	34.5	30.5	26.4	25.3	24.4
7.0	8.8	7.3	8.0	11.5	13.7	8.1	5.5
44.9	40.8	32.6	25.7	24.2	22.8	21.1	14.9
37.1	34.3	22.4	14.0	14.8	18.9	17.9	12.1
4.3	3.1	1.7	1.1	0.8	0.8	0.9	1.1
1.6	1.5	1.4	1.7	1.6	1.4	1.3	1.0
1.9	1.9	7.2	9.0	7.0	1.7	0.9	0.6

Table 5.23: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years for selected cancers by stage and period of diagnosis, 1962–2021, **males** (Continued)

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81	
		Total	75.5	82.9	91.9	101.7	
		Localised	50.3	51.1	60.7	67.0	
C61	Prostate	Regional	2.9	3.2	5.5	4.3	
		Distant	17.6	18.1	19.3	22.3	
		Unknown	4.7	10.5	6.4	8.1	
		Total	4.1	4.5	4.6	5.9	
		Localised	2.6	2.9	2.5	3.2	
C62	Testis	Regional	0.3	0.4	0.9	1.3	
		Distant	1.1	1.0	1.1	1.2	
		Unknown	0.1	0.2	0.1	0.1	
		Total	9.1	10.2	10.8	12.4	
		Localised	5.0	5.0	4.7	4.8	
C64	Kidney (excl. renal pelvis)	Regional	1.1	1.4	2.3	2.9	
		Distant	2.7	3.5	3.6	4.3	
		Unknown	0.3	0.3	0.3	0.4	
		Total	22.9	24.7	32.4	37.5	
		Localised	19.3	19.1	25.4	30.3	
C65-68	Urinary tract	Regional	1.8	2.9	3.9	3.8	
		Distant	1.3	1.4	2.3	2.4	
		Unknown	0.4	1.3	0.8	1.0	
		Total	7.9	8.4	9.2	10.6	
C70-72	Central nervous system	Non-malignant	2.2	2.6	2.7	3.4	
		Malignant	5.8	5.8	6.5	7.2	
		Total	1.8	2.2	2.2	2.6	
		Localised	0.4	0.8	1.1	1.2	
C73	Thyroid gland	Regional	0.8	0.7	0.8	0.9	
		Distant	0.6	0.6	0.3	0.4	
		Unknown	0.0	0.1	0.0	0.1	

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91	1982-86
184.3	210.2	214.7	188.5	166.7	140.8	114.1	105.9
94.8	101.4	96.0	82.5	50.8	63.7	70.8	67.2
52.7	56.7	43.5	13.5	6.9	6.2	3.6	3.8
16.6	16.8	21.0	22.7	22.8	22.5	28.5	27.5
20.2	35.3	54.2	69.9	86.2	48.4	11.2	7.4
11.0	11.9	12.0	10.6	10.1	8.9	7.5	7.0
8.0	9.9	8.6	6.0	5.6	6.1	5.0	3.9
2.3	1.2	1.5	1.9	1.6	1.5	1.3	1.9
0.6	0.8	1.2	1.1	1.4	1.0	1.1	1.1
0.1	0.1	0.7	1.6	1.6	0.3	0.1	0.1
22.5	23.1	20.5	17.9	15.6	14.7	14.5	14.4
13.8	16.0	11.4	8.1	5.7	7.2	6.5	6.4
2.9	2.1	2.0	1.9	2.3	2.2	2.5	2.9
2.8	3.2	4.2	4.3	3.9	3.6	4.6	4.5
3.0	1.9	2.8	3.6	3.7	1.7	0.9	0.6
50.2	51.2	47.4	47.6	44.6	47.5	44.2	42.3
43.2	44.8	33.3	26.0	23.1	35.9	36.3	34.6
3.4	3.3	3.6	4.0	2.5	2.6	3.1	3.6
1.9	1.9	2.2	2.1	2.1	1.6	2.0	1.6
1.7	1.2	8.3	15.4	16.9	7.5	2.7	2.6
16.9	20.3	22.1	20.8	17.6	14.9	12.8	11.8
7.2	10.3	11.8	11.4	8.4	6.6	4.1	3.9
9.7	10.0	10.2	9.5	9.2	8.3	8.8	7.9
5.1	4.5	3.1	2.8	2.4	2.2	2.7	2.5
2.1	2.1	1.1	0.9	0.9	1.0	1.4	1.1
2.0	1.8	1.5	1.2	0.8	0.6	0.8	0.9
0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5
0.7	0.3	0.2	0.4	0.3	0.2	0.1	0.1

Table 5.24: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years for selected cancers by stage and period of diagnosis, 1962–2021, **females**

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81
		Total	4.5	4.4	4.4	4.6
		Localised	2.6	2.4	2.3	2.8
COO-14	Mouth, pharynx	Regional	1.6	1.6	1.6	1.4
		Distant	0.2	0.2	0.3	0.1
		Unknown	0.1	0.2	0.3	0.3
		Total	2.3	1.7	1.6	1.6
		Localised	1.5	1.0	0.8	0.9
15	0esophagus	Regional	0.2	0.2	0.4	0.3
		Distant	0.3	0.3	0.3	0.3
		Unknown	0.3	0.2	0.1	0.1
		Total	36.8	29.4	22.9	20.1
		Localised	11.2	6.9	5.9	5.9
16	Stomach	Regional	5.9	4.7	4.6	5.0
		Distant	14.4	13.4	10.4	7.3
		Unknown	5.3	4.5	2.1	2.0
		Total	23.6	25.6	27.7	34.4
		Localised	9.9	9.7	9.8	9.6
18	Colon	Regional	5.2	6.6	8.0	13.6
		Distant	6.8	7.6	8.5	9.4
		Unknown	1.7	1.7	1.4	1.8
		Total	8.8	12.6	14.1	17.9
		Localised	4.3	5.7	6.6	8.2
19-20	Rectum, rectosigmoid	Regional	2.2	3.3	4.0	5.6
-	,	Distant	1.8	3.0	2.9	3.5
		Unknown	0.5	0.7	0.5	0.6
		Total	0.8	1.3	1.5	1.8
		Localised	0.3	0.5	0.8	0.8
22	Liver	Regional	0.0	0.1	0.1	0.1
		Distant	0.4	0.6	0.6	0.7
		Unknown	0.0	0.1	0.0	0.7
		Total	3.4	3.4	3.0	3.5
		Localised	1.0	0.8	0.9	1.1
23-24	Gallbladder, bile ducts	Regional	0.5	0.5	0.6	0.5
7	delibidadel, blic dutts	Distant	1.8	2.0	1.3	1.7
		Unknown	0.1	0.1	0.2	0.2
		Total	7.8	9.7	10.0	10.9
		Localised	2.6	2.4	2.3	2.1
25	Pancreas	Regional	0.7	1.1	1.2	1.5
	i dileteda	Distant	4.0	5.1	5.4	6.0
		Unknown	0.5	1.2	1.1	1.3
		Total	5.3	8.1	9.0	11.4
		Localised	1.7	2.7	2.6	3.3
33-34	Lung, trachea	Regional	0.6	1.1	1.4	1.6
,, ,4	Lung, tractica	Distant	2.6	3.7	4.4	5.4
		Unknown	0.3	0.7	0.6	1.0
		Total Localised	5.6	7.5	11.2	14.0
42	Molanoma of the eld-		4.5	5.3	9.9	12.6
43	Melanoma of the skin	Regional Distant	0.4 0.5	0.5 0.7	0.5 0.6	0.5 0.7
				() /		

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91	1982-86
8.2	7.8	7.3	6.4	5.6	5.8	5.0	4.9
3.4	3.6	3.2	2.3	2.1	3.1	3.0	2.6
2.8	3.3	2.9	2.6	1.8	1.6	1.5	1.9
0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1
1.8	0.7	1.0	1.3	1.4	0.9	0.3	0.3
2.8	2.5	2.2	2.1	2.1	1.7	1.7	1.6
0.4	0.5	0.5	0.5	0.4	0.4	0.6	0.8
0.8	0.5	0.6	0.6	0.4	0.3	0.4	0.4
0.5	0.6	0.5	0.5	0.5	0.3	0.4	0.2
1.1	0.9	0.6	0.5	0.9	0.7	0.3	0.2
5.8	6.1	7.6	9.0	9.6	12.1	14.7	17.8
0.8	1.1	1.7	1.6	1.6	2.6	4.4	5.5
1.4	1.4	1.7	2.5	2.5	3.0	3.8	4.4
1.8	1.9	2.7	3.3	3.3	3.9	4.8	5.8
1.8	1.7	1.5	1.5	2.2	2.5	1.7	2.2
52.5	53.9	49.6	47.7	45.6	42.9	38.7	36.1
9.3	9.5	7.6	8.7	8.2	11.3	11.9	10.2
27.5	28.4	27.3	24.3	22.4	18.2	15.2	15.4
11.9	12.8	12.4	11.7	10.8	10.1	9.8	8.8
3.9	3.1	2.4	3.1	4.2	3.2	1.9	1.7
18.3	20.2	20.2	20.3	20.1	19.6	18.5	18.8
4.7	5.3	4.3	5.4	5.8	7.1	8.1	7.9
8.3	9.2	10.0	8.6	7.8	7.0	6.0	6.5
3.5	3.9	4.1	3.8	3.7	3.4	3.1	3.3
1.8	1.8	1.8	2.5	2.8	2.2	1.3	1.0
4.3	3.4	2.6	1.9	1.9	1.8	1.8	2.1
0.8	1.0	0.9	0.5	0.4	0.5	0.8	0.8
0.5	0.4	0.4	0.2	0.2	0.1	0.1	0.2
0.8	0.8	0.7	0.3	0.5	0.3	0.4	0.7
2.1	1.2	0.7	0.8	0.8	0.8	0.5	0.4
2.9	3.4	3.3	3.0	3.3	3.0	3.2	3.8
0.3	0.4	0.5	0.5	0.4	0.7	1.0	1.1
0.9	1.4	1.0	0.8	0.6	0.5	0.6	1.0
0.9	1.2	1.3	1.0	1.2	0.9	1.0	1.3
0.8	0.5	0.5	0.6	1.1	0.9	0.6	0.4
14.1	14.4	13.6	13.3	12.9	12.9	12.1	12.4
1.0	1.4	1.5	1.1	0.9	1.6	2.8	2.7
2.8	3.2	3.0	2.7	1.7	1.4	1.3	1.6
5.6	6.6	7.0	6.8	6.0	5.6	5.7	6.2
4.7	3.1	2.2	2.7	4.4	4.3	2.2	1.9
54.5	52.7	47.5	40.0	32.8	26.8	21.2	15.4
12.6	10.7	8.9	5.9	4.5	5.5	5.3	3.7
14.4	13.9	12.1	10.6	7.7	5.6	4.1	2.9
22.0	22.1	22.1	19.5	15.5	10.7	9.5	7.2
5.5	6.1	4.4	3.9	5.2	5.0	2.4	1.5
39.7	36.6	29.6	24.9	22.8	22.9	21.6	18.3
35.0	32.8	21.6	14.6	14.7	19.8	20.0	16.3
2.8	1.6	1.0	0.7	0.4	0.5	0.5	0.8
0.0	0.8	0.7	0.9	0.9	0.8	0.5	0.7
0.8 1.1	1.4	6.4	8.8	6.7	1.7	0.5	0.5

Table 5.24: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years for selected cancers by stage and period of diagnosis, 1962–2021, **females** (Continued)

ICD-10	Site	Stage	1962-66	1967-71	1972-76	1977-81
		Total	65.5	69.6	75.5	77.9
		1	30.8	33.5	38.2	41.7
F0	Dronet	II	20.6	21.4	22.9	22.2
50	Breast	III	6.1	4.5	5.9	4.8
		IV	6.2	6.9	5.9	5.6
		Unknown	1.9	3.2	2.7	3.7
		Total	21.1	23.1	24.9	21.5
		1	8.4	11.6	13.8	11.4
53	Cervix uteri	II	7.9	7.0	6.1	4.5
33	Cervix uteri	III	2.9	2.6	3.1	2.9
		IV	1.3	1.1	1.3	1.2
		Unknown	0.7	0.9	0.6	1.6
		Total	12.9	14.7	16.9	19.0
		Localised	10.7	11.6	14.1	14.8
54	Corpus uteri	Regional	0.8	0.8	1.2	2.2
		Distant	1.4	2.0	1.5	1.6
		Unknown	0.1	0.3	0.2	0.5
		Total	17.7	20.7	20.0	21.0
		Localised	5.9	6.7	7.0	5.1
56, C57.0-4, C48.2	Ovary etc.	Regional	0.9	1.2	1.2	2.0
		Distant	10.4	12.0	11.5	13.4
		Unknown	0.6	0.8	0.4	0.6
		Total	5.4	6.5	6.1	6.7
		Localised	3.1	3.5	3.2	3.1
64	Kidney (excl. renal pelvis)	Regional	0.5	0.9	1.2	1.3
		Distant	1.6	1.9	1.6	2.1
		Unknown	0.1	0.2	0.2	0.2
		Total	8.8	9.1	11.1	11.7
		Localised	5.6	6.0	7.4	8.3
65-68	Urinary tract	Regional	1.4	1.2	1.6	1.6
	•	Distant	1.2	1.3	1.5	1.1
		Unknown	0.5	0.7	0.7	0.7
		Total	6.8	7.1	7.9	9.5
70-72	Central nervous system	Non-malignant	3.3	3.2	3.3	4.3
	•	Malignant	3.4	3.8	4.6	5.2
		Total	3.8	5.2	6.1	6.9
		Localised	1.8	2.8	3.7	4.5
73	Thyroid gland	Regional	1.4	1.6	1.5	1.6
	,	Distant	0.5	0.6	0.7	0.6
		Unknown	0.1	0.3	0.2	0.2

2017-21	2012-16	2007-11	2002-06	1997-01	1992-96	1987-91	1982-86
130.1	123.8	115.3	119.9	112.9	96.4	86.7	85.7
57.5	56.0	50.7	49.5	38.3	22.2	15.0	39.6
38.4	40.2	40.4	49.3	43.6	30.8	33.3	27.6
12.9	13.7	10.2	6.9	5.8	3.2	5.3	5.2
5.5	4.5	4.5	5.6	6.0	5.7	5.8	5.4
15.9	9.4	9.5	8.6	19.2	34.5	27.3	7.9
13.5	13.5	12.1	12.8	13.9	16.1	16.9	17.8
7.0	5.5	5.7	6.7	7.2	5.9	6.2	9.7
1.8	2.5	2.6	2.4	2.8	2.8	3.5	3.7
1.5	1.0	0.9	1.3	1.5	1.5	2.0	2.6
1.0	0.8	0.9	1.0	1.0	0.7	0.7	1.0
2.3	3.7	2.1	1.5	1.4	5.2	4.6	1.0
26.5	27.8	29.4	27.9	24.0	22.2	20.2	19.6
19.1	20.7	21.3	17.3	15.1	15.7	15.0	15.0
2.7	1.9	2.4	3.3	2.6	2.2	2.3	2.3
2.5	3.5	3.9	3.6	3.1	2.8	2.3	1.8
2.2	1.7	1.8	3.7	3.1	1.5	0.6	0.6
17.7	19.4	20.9	21.5	22.3	22.3	22.4	22.8
3.7	4.2	4.4	4.1	4.5	5.8	6.4	6.1
1.3	0.7	0.7	0.6	0.6	0.8	1.1	1.8
11.5	13.6	14.3	14.7	14.7	14.4	14.2	14.0
1.1	1.0	1.5	2.1	2.5	1.4	0.7	0.8
9.9	10.0	9.9	8.9	8.0	8.2	8.1	7.2
6.2	7.2	5.8	4.3	3.2	4.4	4.1	3.3
1.2	0.7	0.8	0.9	8.0	1.0	1.2	1.5
1.1	1.1	1.7	1.6	2.1	1.9	2.2	2.1
1.4	1.0	1.6	2.0	1.9	0.9	0.6	0.3
15.0	15.9	14.0	13.9	12.7	12.2	11.7	12.0
11.9	13.2	9.3	7.3	5.8	8.3	9.0	9.0
1.6	1.3	1.4	1.4	1.0	0.9	1.0	1.3
0.7	0.7	1.0	1.0	1.1	0.8	8.0	0.8
0.7	0.7	2.4	4.2	4.9	2.3	0.9	0.9
19.3	21.8	25.7	25.8	19.4	14.7	12.5	11.1
12.7	15.4	18.8	18.8	12.9	8.7	6.6	5.1
6.6	6.4	6.9	7.0	6.4	6.0	5.9	6.0
12.3	10.3	7.8	6.5	5.5	6.3	6.4	7.0
7.3	6.3	4.3	3.0	2.6	3.9	4.4	4.9
3.2	3.1	2.5	2.0	1.7	1.7	1.5	1.5
0.2	0.4	0.3	0.4	0.4	0.5	0.4	0.5
1.6	0.5	0.8	1.1	0.8	0.3	0.2	0.2

 Table 5.25: Average annual number of new cases by primary site and origin, 2017–2021, males

ICD-10	Site	Norwegian born	Nordic countries	W Europe, North America and Oceania	Other European Countries	Middle East and Africa	Asia
C00-96	All sites	17 549	292	331	310	198	151
C00-14	Mouth, pharynx	392	9	9	9	6	6
C00	Lip	52	0	1	1	0	0
C02-06	Oral cavity	110	3	3	2	1	3
C07-08	Salivary glands	33	1	1	1	1	1
C09-10, C01, C14	Oropharynx	169	3	3	4	1	1
C11	Nasopharynx	6	1	0	1	3	1
C12-13	Hypopharynx	22	0	0	0	1	0
C15-26	Digestive organs	3 5 6 0	57	61	57	44	34
C15	Oesophagus	230	5	5	4	1	0
C16	Stomach	235	2	6	8	7	3
C17	Small intestine	119	1	2	2	2	0
C18	Colon	1398	17	19	18	13	8
C19-20	Rectum, rectosigmoid	756	15	12	9	7	5
C21	Anus	34	0	1	0	0	0
C22	Liver	203	4	4	5	7	9
C23-24	Gallbladder, bile ducts	71	2	2	2	0	1
C25 24	Pancreas	455	9	10	7	5	6
C26	Other digestive organs	58	1	0	0	<u></u>	1
C30-34, C38	Respiratory organs	1681	29	35	43	18	17
C30-31	Nose, sinuses	24	0	0	1	0	0
C30-31	Larynx, epiglottis	81	1	2	3	2	1
C32 C33-34	Lung, trachea	1566	27	32	39	15	16
C38	Heart, mediastinum and pleura	11	0	0	0	1	0
C40-41	Bone	27	1	1	2	1	1
C43	Melanoma of the skin	1141	18	16	13	<u>'</u> 1	1
C44		1391	18	22	6	5	3
C45	Skin, non-melanoma Mesothelioma	64	10	1	0	0	0
C47		5	0	0	0	0	0
	Autonomic nervous system						
C48-49	Soft tissues	58	2	1	2	1	1
C50	Breast	28	0	1	0	1	0
C60-63	Male genital organs	5 0 2 9	86	94	60	48	34
C61	Prostate	4699	80	84	48	44	33
C62	Testis	268	5	8	11	3	1
C60, C63	Other male genital	61	1	1	1	0	0
C64-68	Urinary organs	1764	29	36	50	28	17
C64	Kidney (excl. renal pelvis)	551	8	12	22	8	7
C65-68	Urinary tract	1213	21	24	27	20	10
C69	Eye	40	0	1	1	0	0
C70-72	Central nervous system	399	9	9	18	10	6
C73	Thyroid gland	117	3	4	5	5	4
C37, C74-75	Other endocrine glands	74	1	2	4	4	4
C39, C76, C80	Other or unspecified	144	1	2	3	1	1
C81-96	Lymphoid/haematopoietic tissue	1635	26	36	35	27	22
C81	Hodgkin lymphoma	73	1	2	3	3	2
C82-86, C96	Non-Hodgkin lymphoma	528	9	13	13	10	7
C88	Immunoproliferative disease	54	1	1	1	0	0
C90	Multiple myeloma	283	3	5	3	3	3
C91-95	Leukaemia	696	12	16	16	11	11

 Table 5.26: Average annual number of new cases by primary site and origin, 2017–2021, females

ICD-10	Site	Norwegian born	Nordic countries	W Europe, North America and Oceania	Other European Countries	Middle East and Africa	Asia
C00-96	All sites	14 980	272	251	340	158	256
C00-14	Mouth, pharynx	222	4	4	4	2	4
C00	Lip	41	1	1	0	0	0
C02-06	Oral cavity	91	2	2	1	0	1
C07-08	Salivary glands	27	0	1	1	0	2
C09-10, C01, C14	Oropharynx	56	1	1	1	0	0
C11	Nasopharynx	3	0	0	0	1	0
C12-13	Hypopharynx	4	0	0	0	0	0
C15-26	Digestive organs	3 055	48	40	47	23	37
C15	0esophagus	79	1	2	1	1	1
C16	Stomach	149	3	3	8	3	6
C17	Small intestine	90	2	1	1	1	0
C18	Colon	1 5 1 2	23	17	17	8	13
C19-20	Rectum, rectosigmoid	506	7	6	8	4	7
C21	Anus	62	2	1	0	0	0
C22	Liver	113	1	2	4	2	6
C23-24	Gallbladder, bile ducts	81	1	1	2	1	1
C25	Pancreas	403	7	7	5	3	3
C26	Other digestive organs	60	1	0	1	1	0
C30-34, C38	Respiratory organs	1 587	24	21	23	6	14
C30-31	Nose, sinuses	16	0	0	0	0	0
C32	Larynx, epiglottis	17	0	0	1	0	0
C33-34	Lung, trachea	1551	23	20	22	6	14
C38	Heart, mediastinum and pleura	3	0	0	0	0	0
C40-41	Bone	20	1	0	1	0	0
C43	Melanoma of the skin	1 083	18	14	11	2	1
C44	Skin, non-melanoma	1 173	18	18	6	3	3
C45	Mesothelioma	12	0	0	0	0	0
C47	Autonomic nervous system	4	0	0	0	0	0
C48-49	Soft tissues	46	1	0	2	1	0
C50	Breast	3 235	72	69	99	51	84
C51-58	Female genital organs	1 5 9 5	31	29	54	18	42
C51-52, C57.7-9	Other female genital	115	2	1	1	1	2
C53	Cervix uteri	309	6	7	19	3	13
C54	Corpus uteri	699	15	13	20	7	16
C55	Uterus, other	8	0	0	0	0	0
C56, C57.0-4, C48.2	Ovary etc.	462	9	9	14	6	11
C58	Placenta	2	0	0	0	0	0
C64-68	Urinary organs	689	12	10	14	5	8
C64	Kidney (excl. renal pelvis)	265	4	4	8	3	4
C65-68	Urinary tract	424	8	6	7	3	3
C 69	Eye	37	0	0	1	1	1
C70-72	Central nervous system	475	10	10	18	10	12
C73	Thyroid gland	257	8	7	20	12	22
C37, C74-75	Other endocrine glands	74	1	1	4	4	3
C39, C76, C80	Other or unspecified	173	2	2	2	1	2
C81-96	Lymphoid/haematopoietic tissue	1 242	21	24	33	18	22
C81	Hodgkin lymphoma	51	1	2	3	3	1
C82-86, C96	Non-Hodgkin lymphoma	413	8	7	11	5	11
C88	Immunoproliferative disease	32	1	0	0	0	0
C90	Multiple myeloma	202	2	3	4	1	2

Table 5.27: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and origin, 2017–2021, **males**

ICD-10	Site	Norwegian born	Nordic countries	W Europe, North America and Oceania	Other European Countries	Middle East and Africa	Asia
C00-96	All sites	728.1	707.9	668.7	507.6	459.2	396.2
C00-14	Mouth, pharynx	16.3	18.6	18.2	11.6	13.4	12.7
C00	Lip	2.2	0.8	3.1	2.8	0.6	0.0
C02-06	Oral cavity	4.6	8.0	5.5	2.0	0.9	5.2
C07-08	Salivary glands	1.4	1.2	1.8	0.6	4.2	1.2
C09-10, C01, C14	Oropharynx	7.0	6.5	6.9	3.9	1.0	3.7
C11	Nasopharynx	0.2	1.3	0.5	2.2	4.1	1.7
C12-13	Hypopharynx	0.9	0.8	0.3	0.1	2.6	1.0
C15-26	Digestive organs	147.8	141.0	120.5	112.5	108.0	89.9
C15	Oesophagus	9.4	13.5	8.3	5.9	4.3	0.3
C16	Stomach	9.9	5.1	14.0	18.5	19.6	7.0
C17	Small intestine	5.0	3.3	4.1	3.7	2.4	0.6
C18	Colon	58.4	42.0	38.2	41.5	33.8	24.5
C19-20	Rectum, rectosigmoid	31.1	38.1	23.1	18.0	10.3	12.9
C21	Anus	1.4	0.7	0.8	0.2	0.6	0.6
C22	Liver	8.4	7.8	7.6	8.9	20.3	21.5
C23-24	Gallbladder, bile ducts	3.0	6.9	4.3	4.8	0.4	2.6
C25 24	Pancreas	18.7	21.9	19.3	10.7	14.4	18.1
C26	Other digestive organs	2.4	1.7	0.8	0.3	1.9	1.9
C30-34, C38	Respiratory organs	68.3	72.9	72.0	75.5	51.4	52.0
C30-31		1.0	1.6	0.6		0.4	
	Nose, sinuses				0.5		0.4
C32	Larynx, epiglottis	3.3	2.6	3.3	4.6	3.8	3.2
C33-34	Lung, trachea	63.6	67.2	67.8	70.3	46.6	48.4
C38	Heart, mediastinum and pleura	0.5	1.5	0.2	0.1	0.7	0.0
C40-41	Bone	1.2	1.6	1.4	1.6	1.0	1.0
C43	Melanoma of the skin	48.3	40.8	30.6	14.7	0.6	1.9
C44	Skin, non-melanoma	60.9	60.9	59.2	16.5	19.8	13.7
C45	Mesothelioma	2.6	4.5	4.2	0.0	0.2	0.6
C47	Autonomic nervous system	0.2	0.0	0.0	0.1	0.0	0.2
C48-49	Soft tissues	2.5	5.3	0.7	1.2	1.3	3.1
C50	Breast	1.1	0.8	1.6	0.9	1.8	0.0
C60-63	Male genital organs	204.5	196.7	183.3	109.8	116.4	99.7
C61	Prostate	188.8	184.5	168.6	102.2	114.0	96.6
C62	Testis	13.1	8.5	11.0	4.6	2.4	1.5
C60, C63	Other male genital	2.6	3.7	3.6	3.0	0.0	1.6
C64-68	Urinary organs	72.8	70.6	73.2	76.9	67.2	41.0
C64	Kidney (excl. renal pelvis)	22.6	17.7	22.5	22.6	15.7	14.3
C65-68	Urinary tract	50.2	53.0	50.8	54.3	51.5	26.6
C 69	Eye	1.7	0.4	1.7	0.2	0.0	1.0
C70-72	Central nervous system	17.1	21.3	14.3	16.1	11.6	9.5
C73	Thyroid gland	5.1	5.9	5.7	3.1	6.3	5.4
C37, C74-75	Other endocrine glands	3.1	1.9	3.0	2.6	3.7	7.2
C39, C76, C80	Other or unspecified	6.3	4.9	6.9	9.2	2.6	7.0
C81-96	Lymphoid/haematopoietic tissue	68.2	60.0	72.3	55.0	53.6	50.4
C81	Hodgkin lymphoma	3.2	2.1	2.9	2.8	2.9	2.7
C82-86, C96	Non-Hodgkin lymphoma	21.9	21.0	21.4	17.4	17.6	15.6
C88	Immunoproliferative disease	2.2	2.1	1.8	3.1	0.6	0.4
	Multiple myeloma	11.7	6.5	10.1	5.1	6.4	6.8
C90	Multiple Hiyelollia	11.7	0.5	10.1	ا . ا	0.7	0.0

Table 5.28: Age-standardised (Norwegian standard) incidence rates per 100 000 person-years by primary site and origin, 2017–2021, **females**

ICD-10	Site	Norwegian born	Nordic countries	W Europe, North America and Oceania	Other European Countries	Middle East and Africa	Asia
C00-96	All sites	573.2	522.7	488.6	428.5	358.2	349.8
C00-14	Mouth, pharynx	8.3	7.9	8.7	4.6	3.0	4.8
C00	Lip	1.4	1.7	1.3	0.1	0.0	0.0
C02-06	Oral cavity	3.3	3.8	4.0	1.2	0.5	2.2
C07-08	Salivary glands	1.1	0.0	1.1	0.7	0.3	1.0
C09-10, C01, C14	Oropharynx	2.3	1.7	1.9	2.4	1.3	1.0
C11	Nasopharynx	0.1	0.7	0.3	0.1	1.0	0.3
C12-13	Hypopharynx	0.1	0.0	0.0	0.1	0.0	0.2
C15-26	Digestive organs	110.8	91.0	82.1	75.9	63.1	75.9
C15	0esophagus	2.8	1.9	4.8	1.0	2.6	2.5
C16	Stomach	5.4	5.4	5.7	8.3	4.1	9.8
C17	Small intestine	3.4	3.8	3.1	1.2	2.9	0.4
C18	Colon	54.2	44.2	36.1	30.3	21.8	26.6
C19-20	Rectum, rectosigmoid	19.0	14.3	11.0	11.2	10.6	11.6
C21	Anus	2.4	3.8	2.3	0.1	0.0	0.2
C22	Liver	4.1	1.5	3.5	4.7	5.3	15.0
C23-24	Gallbladder, bile ducts	2.9	1.5	1.7	3.9	4.6	2.7
C25	Pancreas	14.4	13.4	13.0	13.5	9.9	6.5
C26	Other digestive organs	2.1	1.2	0.8	1.7	1.2	0.5
C30-34, C38	Respiratory organs	57.2	45.4	42.9	44.1	22.6	28.2
C30-31	Nose, sinuses	0.6	0.7	0.7	0.7	1.5	0.0
C32	Larynx, epiglottis	0.7	0.8	0.7	0.5	0.3	0.0
C33-34	Lung, trachea	55.8	43.9	41.5	42.9	19.5	28.0
C38	Heart, mediastinum and pleura	0.1	0.0	0.0	0.1	1.3	0.1
C40-41	Bone	0.8	1.7	0.7	1.1	0.2	0.6
C43	Melanoma of the skin	43.9	35.6	24.6	10.9	4.1	1.2
C44	Skin, non-melanoma	40.0	34.6	38.1	14.5	13.5	7.7
C45	Mesothelioma	0.4	0.7	0.9	0.9	0.0	0.3
C47	Autonomic nervous system	0.2	0.0	0.0	0.0	0.3	0.0
C48-49	Soft tissues	1.8	3.0	0.3	1.8	2.8	0.6
C50	Breast	133.0	139.4	128.0	108.4	95.7	97.4
C51-58	Female genital organs	63.5	58.2	53.3	60.6	43.6	47.8
C51-52, C57.7-9	Other female genital	4.3	3.0	2.1	2.4	1.0	3.7
C53	Cervix uteri	14.6	9.9	10.9	13.0	5.0	10.5
C54	Corpus uteri	26.5	28.4	24.0	28.1	22.2	18.4
C55	Uterus, other	0.3	0.0	0.0	0.0	2.6	0.0
C56, C57.0-4, C48.2	Ovary etc.	17.7	16.9	16.3	17.1	12.8	15.1
C58	Placenta	0.1	0.0	0.0	0.0	0.0	0.1
C64-68	Urinary organs	25.2	23.2	21.4	21.2	15.5	10.8
C64	Kidney (excl. renal pelvis)	10.1	7.4	8.3	11.3	6.1	5.8
C65-68	Urinary tract	15.1	15.8	13.1	9.9	9.4	5.1
C69		1.5		0.7	0.4		
C70-72	Eye Central nervous system	19.5	1.0	19.6		2.4	0.5 11.5
	Thyroid gland		19.0		16.4	18.8	
C73		11.4	15.2	12.2	16.5	15.5	18.2
C37, C74-75	Other endocrine glands	3.2	2.1	2.2	4.3	7.3	2.8
C39, C76, C80	Other or unspecified Lymphoid/haematopoietic tissue	5.9	3.6	3.5	3.9	5.4	4.7
C81-96		46.5	41.1	49.4	43.1	44.4	36.9
C81	Hodgkin lymphoma	2.3	1.1	2.7	2.4	3.7	1.4
C82-86, C96	Non-Hodgkin lymphoma	15.4	17.0	14.3	14.5	16.5	19.6
C88	Immunoproliferative disease	1.1	1.9	0.4	0.7	0.6	0.4
C90	Multiple myeloma	7.3	2.8	6.0	6.7	2.8	2.5
C91-95	Leukaemia	20.4	18.2	26.0	18.8	20.8	12.9

Chapter 6 Prevalence

As of December 31st 2021, a total of 316 145 individuals were alive and previously diagnosed with cancer in Norway. The cancer prevalence in Table 6.1 provides the numbers of cancer survivors by time after a given diagnosis (<1, 1–4, 5–9 and \ge 10 years), and approximates the number of patients in Norway (of both sexes) potentially requiring some form of cancer care. The highest prevalence was seen for breast cancer (54 827), prostate cancer (59 077), melanoma of the skin (31 350) and colon cancer (25 508).

Differences in prognosis and median age at diagnosis (rather than incidence) explain much of the site-specific variability in prevalence. In terms of new incident cases, there are 43% more cases of lung cancer compared to melanoma of the skin in Norway in 2021, but the number of lung cancer survivors ten years after diagnosis is only

11% of surviving melanoma patients. This reflects the vast difference in prognosis for the two patient groups.

Table 6.2 shows the number of patients with distant metastases alive at specific time points. Only patients with metastasis confirmed histologically are included. The number is increasing over the years, probably caused by improvements in the diagnostic quality. This also means that patients with only small distant metastases may contribute to a better prognosis in a group with otherwise quite severe disease. We see that patients with metastatic disease now live longer, have more often diagnostic work-up and surgery for metastatic lesions, and are also given more chemotherapy than before. This patient group represents an increasing demand of personnel and costs in the health care system.

 Table 6.1: Prevalence of cancers 31 December 2011 and 31 December 2021, both sexes

		Total no. of p	persons alive		Years afte	r diagnosi	S
ICD-10	Site	31.12.2011	31.12.2021	<1	1-4	5-9	10+
C00-96	All sites	217 977	316 145	25 979	82 472	76 649	131 045
C00-14	Mouth, pharynx	4 0 1 2	6 209	656	1911	1528	2 114
C00	Lip	1 098	1 181	98	310	281	492
C02-06	Oral cavity	1 2 7 5	1 906	197	593	462	654
C07-08	Salivary glands	517	757	71	187	173	326
C09-10, C01, C14	Oropharynx	934	2 110	256	739	562	553
C11	Nasopharynx	119	182	21	52	41	68
C12-13	Hypopharynx	89	123	24	53	21	25
C15-26	Digestive organs	32 599	46 725	5 442	14 556	11814	14913
C15	Oesophagus	421	964	239	380	217	128
C16	Stomach	1969	2 112	279	620	462	751
C17	Small intestine	861	1 607	205	606	408	388
C18	Colon	17 938	25 508	2 728	8 009	6 608	8 163
C19-20	Rectum, rectosigmoid	10 035	13 596	1 225	3 921	3 543	4 907
C21	Anus	620	989	97	299	262	331
C22	Liver	322	856	208	340	167	141
C23-24	Gallbladder, bile ducts	358	548	111	193	108	136
C25	Pancreas	721	1 582	511	609	277	185
C26	Other digestive organs	141	190	54	54	36	46
C30-34, C38	Respiratory organs	7 095	12 124	2 474	4833	2616	2 201
C30-31	Nose, sinuses	310	380	39	107	88	146
C32	Larynx, epiglottis	1 115	1 124	109	292	271	452
C33-34	Lung, trachea	5 635	10 620	2 3 4 3	4 450	2 262	1565
C38	Heart, mediastinum and pleura	72	77	8	18	8	43
C40-41	Bone	704	915	52	153	152	558
C43	Melanoma of the skin	19 442	31 350	2 3 7 8	8 115	7 117	13 740
C44	Skin, non-melanoma	12 732	20 980	2 940	8 035	4749	5 256
C45	Mesothelioma	118	143	56	65	15	7
C47	Autonomic nervous system	244	252	10	27	24	191
C48-49	Soft tissues	1 2 7 2	1 571	84	316	303	868
C50	Breast	38 250	54827	3 9 1 9	12 882	12 617	25 409
C51-58	Female genital organs	21 347	25 396	1 5 7 6	5 240	5 035	13 545
C51-52, C57.7-9	Other female genital	870	1 094	107	295	250	442
C53	Cervix uteri	6 8 4 7	7 762	318	1 2 4 7	1 283	4914
C54	Corpus uteri	9 2 5 1	11 545	736	2 5 6 3	2 598	5 648
C55	Uterus, other	40	43	3	3	9	28
C56, C57.0-4, C48.2	Ovary etc.	4 5 4 2	F 100	444	1211	964	2 580
C58		7 372	5 199	444	1211	704	_ 500
	Placenta	143	151	0	8	13	130
C60-63	Placenta Male genital organs						
C60-63		143	151	0	8	13	130
	Male genital organs	143 41 255	151 67 993	0 5 372	8 18 850	13 19 814	130 23 957
C61	Male genital organs Prostate	143 41 255 34 637	151 67 993 59 077	0 5 372 5 028	8 18 850 17 630	13 19814 18238	130 23 957 18 181
C61 C62	Male genital organs Prostate Testis	143 41 255 34 637 6 320	151 67 993 59 077 8 555	0 5 372 5 028 292	8 18 850 17 630 1 168	13 19 814 18 238 1 487	130 23 957 18 181 5 608
C61 C62 C60, C63	Male genital organs Prostate Testis Other male genital	143 41255 34637 6320 430	151 67 993 59 077 8 555 661	0 5 372 5 028 292 77	8 18 850 17 630 1 168 172	13 19 814 18 238 1 487 172	130 23 957 18 181 5 608 240
C61 C62 C60, C63 C64-68	Male genital organs Prostate Testis Other male genital Urinary organs	143 41255 34637 6320 430 16613	151 67 993 59 077 8 555 661 25 053	0 5 372 5 028 292 77 2 508	8 18 850 17 630 1 168 172 7 726	13 19 814 18 238 1 487 172 6717	130 23 957 18 181 5 608 240 8 102
C61 C62 C60, C63 C64-68 C64	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis)	143 41255 34637 6320 430 16613 5089	151 67 993 59 077 8 555 661 25 053 8 789	0 5 372 5 028 292 77 2 508 837	8 18 850 17 630 1 1 168 172 7 726 2 682	13 19814 18238 1487 172 6717 2482	130 23 957 18 181 5 608 240 8 102 2 788
C61 C62 C60, C63 C64-68 C64 C65-68	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract	143 41255 34637 6320 430 16613 5089 11633	151 67 993 59 077 8 555 661 25 053 8 789 16 501	0 5 372 5 028 292 77 2 508 837 1 703	8 18 850 17 630 1168 172 7726 2682 5147	13 19814 18238 1487 172 6717 2482 4300	130 23 957 18 181 5 608 240 8 102 2 788 5 351
C61 C62 C60, C63 C64-68 C64 C65-68	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye	143 41255 34637 6320 430 16613 5089 11633 952	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240	0 5 372 5 028 292 77 2 508 837 1 703 81	8 18 850 17 630 1168 172 7726 2682 5147 277	13 19814 18238 1487 172 6717 2482 4300 252	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630
C61 C62 C60, C63 C64-68 C64 C65-68 C69	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system	143 41255 34637 6320 430 16613 5089 11633 952 11589	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838	0 5 372 5 028 292 77 2 508 837 1 703 81 831	8 18 850 17 630 1168 172 7726 2682 5147 277 2 506	13 19814 18 238 1 487 172 6717 2 482 4 300 252 3 061	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440
C61 C62 C60, C63 C64-68 C64 C65-68 C69 C70-72	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland	143 41255 34637 6320 430 16613 5089 11633 952 11589 4606	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838 7 292	0 5 372 5 028 292 77 2 508 837 1 703 81 831 505	8 18 850 17 630 11 68 172 7726 2 682 5 147 277 2 506 1 624	13 19 814 18 238 1 487 172 6717 2 482 4 300 252 3 061 1 490	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440 3 673
C61 C62 C60, C63 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands	143 41255 34637 6320 430 16613 5089 11633 952 11589 4606 3329	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838 7 292 4 401	0 5 372 5 028 292 77 2 508 837 1 703 81 831 505 145	8 18 850 17 630 11 68 172 7726 2 682 5 147 277 2 506 1 624 657	13 19 814 18 238 1 487 172 6717 2 482 4 300 252 3 061 1 490 981	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440 3 673 2 618
C61 C62 C60, C63 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80	Male genital organs Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified	143 41255 34637 6320 430 16613 5089 11633 952 11589 4606 3329 536	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838 7 292 4 401 683	0 5 372 5 028 292 77 2 508 837 1 703 81 831 505 145 116	8 18 850 17 630 11 68 172 7726 2 682 5 147 277 2 506 1 624 657 190	13 19814 18238 1487 172 6717 2482 4300 252 3061 1490 981 139	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440 3 673 2 618 238
C61 C62 C60, C63 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96	Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue	143 41255 34637 6320 430 16613 5089 11633 952 11589 4606 3329 536	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838 7 292 4 401 683 30 477	0 5 372 5 028 292 77 2 508 837 1 703 81 831 505 145 116 2 753	8 18 850 17 630 11 68 172 7726 2682 5147 277 2 506 1624 657 190 9 061	13 19814 18238 1487 172 6717 2482 4300 252 3061 1490 981 139 7487	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440 3 673 2 618 2 38 11 176
C61 C62 C60, C63 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81	Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma	143 41255 34637 6320 430 16613 5089 11633 952 11589 4606 3329 536 18664 2333	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838 7 292 4 401 683 30 477 3 162	0 5372 5028 292 77 2508 837 1703 81 831 505 145 116 2753 140	8 18 850 17 630 1168 172 7726 2682 5147 277 2 506 1624 657 190 9 061 517	13 19814 18238 1487 172 6717 2482 4300 252 3061 1490 981 139 7487 616	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440 3 673 2 618 2 38 11 176 1 889
C61 C62 C60, C63 C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81 C82-86, C96	Prostate Testis Other male genital Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma Non-Hodgkin lymphoma	143 41255 34637 6320 430 16613 5089 11633 952 11589 4606 3329 536 18664 2333 7235	151 67 993 59 077 8 555 661 25 053 8 789 16 501 1 240 14 838 7 292 4 401 683 30 477 3 162 11 474	0 5 372 5 028 292 77 2 508 837 1 703 81 831 505 145 116 2 753 140 986	8 18 850 17 630 11 68 172 7726 2682 5147 277 2 506 1 624 657 190 9 061 517 3 122	13 19814 18 238 1 487 172 6717 2 482 4 300 252 3 061 1 490 981 139 7 487 616 2 882	130 23 957 18 181 5 608 240 8 102 2 788 5 351 630 8 440 3 673 2 618 2 38 11 176 1 889 4 484

Table 6.2: Prevalence of patients diagnosed with distant metastases during lifetime, by health region, both sexes

	Alive by								
Health region	31.12.1996	31.12.2001	31.12.2006	31.12.2011	31.12.2016	31.12.2021			
South-Eastern	4 778	5 843	7 075	8 584	10 126	11764			
Western	1 615	2 119	2 5 2 0	2 957	3 653	4 2 6 4			
Central	1 212	1 423	1817	2 120	2 457	2 792			
Northern	772	914	1 2 1 6	1 443	1 648	1974			
Norway	8 377	10 299	12 628	15 104	17 884	20794			

Chapter 7 Mortality

The mortality data is obtained from the Cause of Death Registry. Of note is that mortality data for 2021 was not complete when this report was published (June 2022), and we therefore report figures for 2020.

There were 10 981 deaths from cancer in Norway in 2020, of which 5916 were men, and 5065 women (Table 7.1) ¹. Cancer of the lung accounts for 20% of the cancer mortality, followed by cancer in the colon (11%), prostate (9%), pancreas (7%) and female breast (5%). Together these cancer sites account for 51% of the cancer mortality.

Among men, lung cancer caused 1162 deaths in 2020. Prostate cancer (954 deaths), colon cancer (534 deaths) and pancreatic cancer (393 deaths) represent the second,

third and fourth most frequent causes of cancer death among men, respectively.

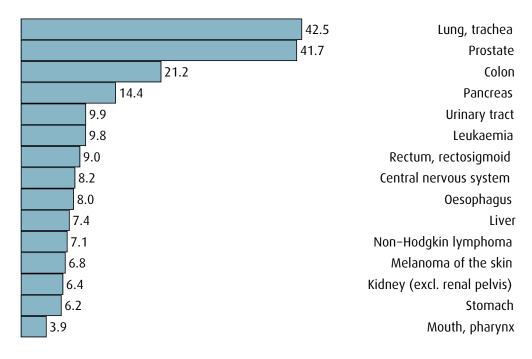
Lung cancer mortality also ranks highest among women (1006 deaths), followed by colon (625 deaths), breast (591 deaths) and pancreatic cancer (378 deaths). Figure 7.1 shows the distribution of age-standardised mortality rates for selected cancer sites. There is at least a 10-fold difference in rates across these cancers. Given the very poor prognosis for pancreatic cancer, it ranks among the top four causes of cancer death among both men and women, even though pancreatic cancer only is a moderately common cancer.

The trends section in this report examines the incidence, mortality, and survival for 23 selected cancer sites.

¹We have not received complete data for mortality for 2021.

Figure 7.1: Age-standardised (Norwegian standard) mortality rates per 100 000 person-years for selected cancers, 2020

MALES



FEMALES

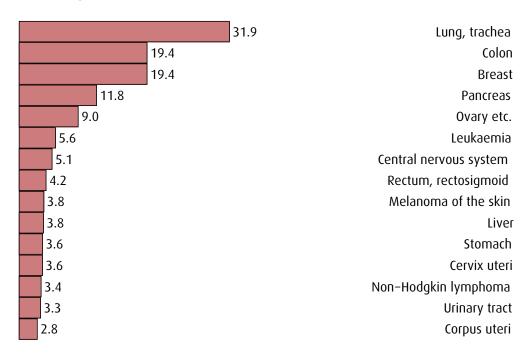


 Table 7.1: Number of cancer deaths by primary site and sex, 2020

ICD-10	Site	Males	Females	Total
C00-96	All sites	5 9 1 6	5 0 6 5	10 981
C00-14	Mouth, pharynx	105	48	153
C00	Lip	4	1	5
C02-06	Oral cavity	34	30	64
C07-08	Salivary glands	16	4	20
C09-10, C01, C14	Oropharynx	33	9	42
C11	Nasopharynx	1	1	2
C12-13	Hypopharynx	17	3	20
C15-26	Digestive organs	1 896	1576	3 472
C15	Oesophagus	217	78	295
C16	Stomach	163	114	277
C17	Small intestine	47	24	71
C18	Colon	534	625	1 159
C19-20	Rectum, rectosigmoid	235	130	365
C21	Anus	6	15	21
C22	Liver	203	120	323
C23-24	Gallbladder, bile ducts	43	46	89
C25	Pancreas	393	378	771
C26	Other digestive organs	55	46	101
C30-34, C38	Respiratory organs	1211	1026	2 237
C30-31	Nose, sinuses	13	8	21
C32	Larynx, epiglottis	33	8	41
C33-34	Lung, trachea	1 162	1 006	2 168
C38	Heart, mediastinum and pleura	3	4	7
C40-41	Bone	13	11	24
C43	Melanoma of the skin	174	121	295
C44		31	27	58
C45	Skin, non-melanoma Mesothelioma	56	12	68
C45	Autonomic nervous system	2	2	4
C48-49	Soft tissues	49	44	93
C50	Breast	10	591	601
C51-58		10		
	Female genital organs		589	589 59
C51-52, C57.7-9	Other female genital Cervix uteri			
C53			106	106
C54	Corpus uteri		91	91
C55	Uterus, other		58	58
C56, C57.0-4, C48.2	Ovary etc.		275	275
C58	Placenta		0	0
C60-63	Male genital organs	961		961
C61	Prostate	954		954
C62	Testis	5		5
C60, C63		n		2
	Other male genital	2		595
C64-68	Urinary organs	407	188	
C64-68 C64	Urinary organs Kidney (excl. renal pelvis)	407 166	80	246
C64–68 C64 C65–68	Urinary organs Kidney (excl. renal pelvis) Urinary tract	407 166 241	80 108	246 349
C64-68 C64 C65-68 C69	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye	407 166 241 4	80 108 1	246 349 5
C64-68 C65-68 C69 C70-72	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system	407 166 241	80 108 1 154	246 349 5
C64-68 C65-68 C69 C70-72	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland	407 166 241 4 223	80 108 1 154 19	246 349 5 377 33
C64-68 C65-68 C69 C70-72 C73 C37, C74-75	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands	407 166 241 4 223 14	80 108 1 154 19 8	246 349 5 377 33 16
C64-68 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified	407 166 241 4 223	80 108 1 154 19 8 229	246 349 5 377 33 16 391
C64-68 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue	407 166 241 4 223 14	80 108 1 154 19 8	246 349 5 377 33 16 391
C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma	407 166 241 4 223 14 8	80 108 1 154 19 8 229	246 349 5 377 33 16
C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue	407 166 241 4 223 14 8 162	80 108 1 154 19 8 229 419	246 349 5 377 33 16 391 1008
C64-68 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma	407 166 241 4 223 14 8 162 589	80 108 1 154 19 8 229 419	246 349 5 377 33 16 391 1008
C64-68 C64 C65-68 C69 C70-72 C73 C37, C74-75 C39, C76, C80 C81-96 C81 C82-86, C96	Urinary organs Kidney (excl. renal pelvis) Urinary tract Eye Central nervous system Thyroid gland Other endocrine glands Other or unspecified Lymphoid/haematopoietic tissue Hodgkin lymphoma Non-Hodgkin lymphoma	407 166 241 4 223 14 8 162 589 12	80 108 1 154 19 8 229 419 10	246 349 5 377 33 16 391 1008 22 293

Chapter 8 Survival

Long-term estimates of survival are becoming increasingly relevant as life expectancy amongst cancer patients increases and cancer care continues to advance^[23]. Table 8.3 gives the 1-year, 5-year, 10-year and 15-year relative survival estimates (with 95% confidence intervals) for the follow-up period 2017–2021 by cancer site and sex. Less frequent cancer diagnoses and groups with low survival will have few cases left especially at 10 and 15 years after diagnosis, and the 95% confidence intervals should be taken into consideration in any interpretation of the relative survival estimates.

Given that cancer patients survive longer, there is a need to communicate information about prognosis not only at the time of diagnosis, but also later because prognosis tends to improve for those surviving the first year(s) after diagnosis^[21].

Figures 8.1–A to 8.1–X depict these two aspects of cancer survival in Norway for all cancers combined and for 23 specific cancer sites. Relative survival estimates are presented by sex and age, 1 to 15 years after diagnosis, with age strata determined specifically according to relevant biological and/or clinical criteria.

For some sites, the cumulative survival curve tends to level off a certain number of years after diagnosis, indicating that from this point forward, the cancer patient group has similar mortality as the comparable group without cancer, or in other words, statistically, these patients appear to be "cured" [24]. This concept of "statistical cure" involves attributes of survival observed among patients as a group, and should be distinguished from clinical cure, which is determined on the basis of lack of specific symptoms in an individual.

Estimates of five-year relative survival conditional on being alive 1 to 10 years after diagnosis are included in the sex-specific figures, which better quantify the prognosis of cancer patients at time points beyond the initial diagnosis (Figure 8.1–A to 8.1–X, dashed lines). When conditional five-year relative survival is above 90–95% we usually say that there is little or no excess mortality — analogous to the notion of statistical cure that may be observed in the long-term relative survival estimates.

The overall profile of the sex- and age-specific survival of all cancer patients 1 to 15 years after diagnosis in

Norway is presented in Figure 8.1–A. The combined cancer group is an aggregate of many different cancer types with different diagnostic and treatment possibilities, and survival estimates will particularly be influenced by PSA testing for prostate cancer and mammographic screening for female breast cancer.

The cumulative five-year relative survival described by cancer site, sex and age, and five-year conditional relative survival by site and age (Figures 8.1–B to 8.1–X) are fairly self-explanatory and highlight the wide variations in patient survival according to these three variables. The 84 percentage-point difference in five-year survival among patients with testicular cancer (Figure 8.1-Q) compared to patients with pancreatic cancer (Figure 8.1-I) strikingly illustrates the wide differences in prognosis according to cancer type. Moreover, long-term survival following diagnosis of melanoma of the skin and cancers of the oral cavity, central nervous system, colon and thyroid gland clearly varies between men and women. This may be due to biological or anatomical differences or be related to sex-specific differences in stage at presentation¹, subsite or histological type, as well as levels of co-morbidity.

The overall cancer survival tends to diminish with increasing age at diagnosis, yet the age-specific differences are rather narrow for for example colon cancer (Figure 8.1–E) relative to cervical cancer (Figure 8.1–M) or non-Hodgkin lymphoma (Figure 8.1–W). For certain cancers, including breast and corpus uteri cancer, long-term survival among patients diagnosed before the age of 50 are slightly lower than for patients diagnosed at the ages 50–59. This in part represents the diagnosis of more aggressive tumours in the younger age group, and, for breast cancer, the impact of screening in the older group.

The figures also illustrate a positive aspect of cancer survival; cancer patients who are alive a certain time after diagnosis show good prospects of surviving their cancer and being cured. In fact, for more than two-thirds of the cancer groups, the five-year conditional relative survival reaches 90% 2–5 years after diagnosis. In general terms, this means that survivors of these cancers will, within a few years of diagnosis, have mortality rates similar to that of the general population, and would be considered (statistically) cured. The extent to which survivors may

¹For cancers of the central nervous system, this is particularly noticeable. Among men, 58.1% of these tumors are malignant. The corresponding proportion among women is 34.1%.

be considered cured does however vary; five-year conditional survival from breast cancer reaches 90% 1 year after diagnosis (Figure 8.1–L) and slowly increases to about 93% 10 years from diagnosis. As is evident from the continual decline in long-term breast cancer cumulative survival, there remains a persistent excess mortality for women with this disease.

Tables 8.1 and 8.2 provide the five-year relative survival estimates over the last four decades by cancer site and stage for males and females, respectively. While the stage-specific count of cases by five-year period of diagnosis in Tables 5.21 and 5.22 are not equivalent to the size of the patient groups used in the survival calculations, the numbers do provide a reasonable indication of the absolute number of patients involved in the survival analyses at different time periods and their relative distribution.

Table 8.1: Five-year relative survival by primary site, stage and period of diagnosis, 1982–2021, males

	Relative survival (%)									
ICD-10	Site	Stage	1982-86	1987-91	1992-96	1997-01	2002-06	2007-11	2012-16 2	017-21*
C00-96	All sites	Total	43.7	46.8	51.9	57.6	63.1	69.4	74.4	77.1
		Total	56.6	58.1	55.5	55.1	55.9	65.0	67.9	72.5
		Localised	76.3	81.0	81.6	81.1	80.4	83.1	85.1	87.7
C00-14	Mouth, pharynx	Regional	25.9	27.4	27.3	33.4	39.2	50.4	61.8	65.2
		Distant	-	7.3	11.8	6.2	12.6	7.8	6.1	10.4
		Unknown	54.8	38.2	51.9	56.2	60.7	76.0	57.4	72.7
		Total	4.5	5.4	5.6	6.8	8.2	13.5	20.3	22.2
	_	Localised	6.9	13.0	15.6	24.1	22.8	32.5	56.5	66.5
C15	Oesophagus	Regional	5.7	4.8	3.8	8.0	11.5	14.4	24.4	32.2
		Distant	-	0.5	0.6	0.5	-	1.6	3.0	3.3
		Unknown	-	4.8	3.5	7.2	4.3	15.1	12.7	11.4
		Total	17.3	19.4	17.5	19.1	20.5	25.0	27.4	30.9
		Localised	40.6	50.1	57.3	57.1	58.7	63.6	68.9	80.5
C16	Stomach	Regional	18.8	20.5	16.8	21.0	22.2	24.8	33.4	38.5
		Distant	1.5	1.2	0.7	2.0	1.5	3.5	2.8	4.4
		Unknown	6.9	3.9	9.3	20.1	27.1	24.3	20.1	23.2
		Total	48.6	47.5	53.0	56.0	58.0	60.6	65.5	69.7
C10	Colon	Localised	78.7	76.9	87.5	96.2	88.8	92.3	95.0	97.1
C18	Colon	Regional	56.1	57.1	64.3	68.5	72.3	78.1	83.9	85.3
		Distant Unknown	5.1	4.2	4.2	6.7	7.9	12.8	14.3	16.0
			33.2	25.9	33.2	54.3	56.4	44.7	23.5	47.1
		Total	44.0	47.6	51.7	57.7	61.0	66.3	71.1	71.9
C10 20	Dostum sastasiamaid	Localised	67.2	72.0	81.9	85.2	88.6	91.9	97.8	97.5
C19-20	Rectum, rectosigmoid	Regional	39.8	45.8 4.1	52.3	66.4	69.7	80.4	82.3	81.2
		Distant Unknown	2.4 29.4		3.5 27.9	10.3	11.7	15.7	21.6	25.0
		Total	29.4 2.6	34.3 3.4	6.2	50.4 6.1	57.6 6.3	47.8 13.9	40.8 19.1	55.3 25.3
		Localised	5.1	6.4	12.2	15.7	10.2	24.8	42.3	50.8
C22	Liver	Regional	J. I	- 0.4	12.2		1.7	5.3	6.1	12.0
(22	Livei	Distant			2.2		2.2	2.5	3.1	3.9
		Unknown	2.3	1.6	3.3	2.8	6.9	13.2	11.7	18.3
		Total	11.5	10.9	9.2	14.7	14.6	16.9	19.3	26.8
		Localised	24.4	19.9	21.4	31.5	40.5	32.5	60.7	60.9
C23-24	Gallbladder, bile ducts	Regional	19.1	14.0	11.9	21.8	14.7	21.9	18.9	30.2
C23 24	delibilidadel, blie datis	Distant	1.4	1.9	1.5	1.4	4.0	2.5	0.8	1.6
		Unknown	- 1.4	-	1.7	12.0	9.6	8.3	-	37.0
		Total	1.2	1.7	2.5	2.5	4.8	5.9	10.9	14.7
		Localised	3.2	3.2	8.6	8.6	20.0	24.4	51.8	56.2
C25	Pancreas	Regional	1.6	5.7	6.6	5.4	6.2	9.1	19.5	25.6
		Distant	0.3	1.0	0.8	1.4	2.1	2.1	1.8	2.6
		Unknown	2.6	0.6	1.6	2.3	4.1	8.1	8.5	16.5
		Total	7.4	7.1	7.8	8.5	10.0	12.9	19.3	25.7
		Localised	17.1	15.5	21.9	32.5	39.7	44.2	56.3	64.0
C33-34	Lung, trachea	Regional	7.7	8.7	7.8	9.0	11.3	15.3	23.4	31.9
	203,	Distant	0.4	0.8	0.4	0.7	1.1	2.1	2.4	5.1
		Unknown	2.8	5.7	5.8	7.4	10.9	12.1	15.2	17.8
		Total	68.0	69.8	75.0	75.8	76.2	79.2	86.9	90.3
		Localised	76.7	77.9	81.0	85.7	83.4	87.5	92.8	95.2
C43	Melanoma of the skin	Regional	29.2	35.1	41.7	40.0	37.7	40.4	64.8	74.9
		Distant	2.0	7.9	14.8	11.5	11.9	11.7	25.2	41.4
		Unknown	67.1	39.8	67.8	73.0	81.2	74.0	63.1	59.8
		Total	57.2	59.8	68.4	80.2	85.9	92.4	95.1	95.5
		Localised	73.6	74.9	80.3	96.2	96.8	101.7	103.3	102.4
C 61	Prostate	Regional	42.0	54.0	60.2	73.2	81.7	93.9	95.2	95.9
		Distant	21.6	24.9	24.5	26.4	31.1	37.2	39.9	45.1

Table 8.1: Five-year relative survival by primary site, stage and period of diagnosis, 1982–2021, males (Continued)

						Relative s	survival (º	⁄o)		
ICD-10	Site	Stage	1982-86	1987-91	1992-96	1997-01	2002-06	2007-11	2012-16 2	017-21*
		Total	92.6	94.5	96.0	96.4	97.1	97.8	99.0	98.8
		Localised	98.2	98.0	99.4	99.1	100.0	99.1	99.8	100.1
C62	Testis	Regional	95.5	95.6	96.9	97.5	94.9	96.0	98.5	97.6
		Distant	68.0	77.1	74.7	75.7	84.0	90.3	88.9	87.5
		Unknown	-	-	91.7	101.5	97.4	99.9	-	-
		Total	41.6	43.0	50.8	51.2	60.1	66.3	77.2	78.9
		Localised	71.8	68.1	76.6	78.9	85.0	87.1	91.9	92.6
C64	Kidney (excl. renal pelvis)	Regional	44.1	50.9	53.4	52.3	55.6	57.9	64.9	70.2
		Distant	7.2	5.8	6.0	6.7	8.4	9.3	17.3	21.9
		Unknown	42.1	-	27.9	56.0	68.2	70.5	50.4	59.7
		Total	64.3	67.1	71.2	69.3	72.3	74.5	78.6	80.3
		Localised	71.7	73.7	77.7	80.5	84.8	84.2	85.5	87.2
C65-68	Urinary tract	Regional	22.9	29.3	24.9	26.4	27.6	29.7	31.8	36.0
		Distant	2.9	7.9	6.7	4.7	5.7	5.3	5.1	9.5
		Unknown	67.3	66.4	68.5	68.2	72.6	73.1	49.6	62.4
		Total	34.3	36.9	45.5	51.9	60.4	60.2	61.3	57.0
C70-72	Central nervous system	Non-malignant	72.4	71.6	80.4	90.3	93.1	92.1	95.4	96.7
		Malignant	16.6	22.4	21.5	19.4	22.5	24.4	29.2	28.0
		Total	80.3	81.1	76.9	81.5	84.9	89.2	90.0	90.0
		Localised	98.5	94.7	98.6	98.4	97.0	101.1	101.9	100.5
C73	Thyroid gland	Regional	80.1	88.7	89.4	81.2	89.2	93.2	87.0	88.9
		Distant	39.1	31.2	27.5	-	-	-	37.2	-
		Unknown	-	-	-	-	-	-	74.7	77.3
C 81	Hodgkin lymphoma	Total	62.5	73.1	75.6	80.5	79.3	79.5	84.4	91.2
C82-86, C96	Non-Hodgkin lymphoma	Total	42.2	41.9	46.2	47.9	59.0	66.3	73.4	77.9
C91-95	Leukaemia	Total	26.5	33.8	41.8	48.6	54.6	60.5	65.7	71.0

^{*} For 2017–21 the 5-year relative survival estimates are based on the period approach (observation window 2017–21).

⁻ Not estimated due to too few patients (see Chapter 4).

 Table 8.2: Five-year relative survival by primary site, stage and period of diagnosis, 1982–2021, females

ICD-10	Site	Stage	Relative survival (%)							
			1982-86	1987-91	1992-96	1997-01	2002-06	2007-11	2012-16 2	017-21*
C00-96	All sites	Total	53.4	56.4	59.1	62.8	66.3	69.5	73.6	76.3
		Total	56.6	64.7	61.0	59.5	67.6	72.9	74.0	76.7
		Localised	70.7	81.0	82.2	84.6	82.1	88.4	88.7	91.1
C00-14	Mouth, pharynx	Regional	40.7	43.0	35.5	38.3	51.9	54.7	57.7	62.7
		Distant	-	-	-	5.6	-	-	-	-
		Unknown	-	-	53.5	59.2	81.5	87.0	84.8	83.5
		Total	8.2	9.2	12.0	8.0	9.7	18.0	27.9	29.8
C15		Localised	12.3	17.6	27.4	24.8	23.5	40.1	48.1	61.7
	Oesophagus	Regional	6.0	6.9	9.2	5.2		17.3	41.9	32.1
		Distant	-	-	-		2.8	-	11.7	11.3
		Unknown	-	15.1	8.1	7.1	7.7	13.9	18.7	25.9
		Total	21.6	22.3	22.5	24.5	24.2	25.8	29.9	31.2
		Localised	51.4	52.8	63.5	72.5	64.9	65.6	75.2	81.7
C16	Stomach	Regional	21.8	22.8	27.9	29.8	22.5	22.4	30.7	35.2
		Distant	1.1	0.7	1.7	3.2	4.3	2.7	5.6	7.7
		Unknown	14.1	11.1	9.3	20.6	35.2	30.5	32.1	26.8
		Total	48.7	52.7	55.1	58.7	61.8	65.1	69.8	71.0
		Localised	79.3	82.2	86.6	90.3	94.7	95.8	98.1	97.4
C18 C19–20	Colon	Regional	55.9	62.0	64.8	71.6	74.3	81.0	84.5	85.4
		Distant	4.0	5.0	5.4	8.5	11.4	14.0	19.9	20.9
		Unknown	21.1	33.1	45.7	56.4	62.5	41.9	31.9	45.7
		Total	49.1	53.5	59.1	60.9	66.2	68.6	71.3	73.5
		Localised	74.5	76.8	87.4	93.3	93.4	95.8	97.5	96.8
	Rectum, rectosigmoid	Regional	44.8	52.1	59.9	64.8	72.5	79.8	81.1	84.5
		Distant	5.0	2.3	6.1	7.8	11.6	20.5	21.9	23.6
		Unknown	31.8	47.2	45.3	56.8	68.1	51.1	45.2	53.1
		Total	7.4	8.7	9.7	8.2	14.3	19.0	26.6	24.8
		Localised	11.8	15.9	13.5	18.8	25.6	38.3	49.3	45.9
C22	Liver	Regional	-	-	-	-	-	11.3	24.1	34.1
		Distant	2.2	2.3	3.1	-		4.2	10.3	5.4
		Unknown	-	4.7	13.0	6.7	14.8	12.3	16.6	18.2
		Total	12.7	9.8	9.9	12.7	12.6	16.9	20.5	24.9
C23-24		Localised	29.1	17.6	28.3	43.8	29.4	37.8	42.0	69.8
	Gallbladder, bile ducts	Regional	10.9	11.5	12.6	18.4	19.1	26.8	29.2	34.2
		Distant	-	-	-	2.4	1.1	2.0	3.2	1.1
		Unknown	6.4	9.1	6.1	9.1	8.8	18.4	-	22.1
		Total	1.8	2.6	3.7		4.2	7.3	11.9	14.6
		Localised	4.3	7.3	16.1	23.4	18.0	35.1	52.0	51.3
C25	Pancreas	Regional	3.1	3.7	7.0	3.2	6.1	8.6	14.7	20.2
		Distant	0.8	0.5	1.3			2.2	2.3	2.7
		Unknown	1.2	4.0	1.3		3.8	8.4	10.8	14.5
		Total	6.4	9.1	11.0			17.9	26.2	32.8
		Localised	18.1	23.3	32.1			55.0	67.1	73.3
C33-34	Lung, trachea	Regional	5.6	9.1	12.3		13.3	18.7	31.2	38.0
		Distant	0.4	1.2	1.0		2.0	2.6	4.1	7.0
		Unknown	5.7	7.3	5.3		18.4	17.8	21.2	27.6
		Total	80.6	87.6	86.3	88.1	87.1	88.1	93.5	95.2
		Localised	86.9	92.3	90.8	94.8	93.8	93.3	97.1	98.4
C43	Melanoma of the skin	Regional	42.0	43.7	51.4	52.1	59.5	54.0	71.4	78.3
		Distant	5.2	15.3	22.6	17.6	23.5	30.6	38.0	52.2
		Unknown	80.8	70.0	79.2	89.3	86.1	83.9	75.9	70.2

Table 8.2: Five-year relative survival by primary site, stage and period of diagnosis, 1982–2021, **females** (Continued)

	Site	Relative survival (%)								
ICD-10		Stage	1982-86	1987-91	1992-96	1997-01	2002-06	2007-11	2012-16	2017-21*
		Total	73.9	76.0	79.2	85.1	87.6	89.2	91.4	92.3
C50	Breast	I	87.0	94.9	96.2	98.6	99.4	100.3	100.3	100.4
		II	67.9	74.0	75.4	85.6	89.2	92.2	95.4	96.2
(50		III	50.4	46.4	59.9	63.5	66.7	77.8	78.7	79.8
		IV	15.4	22.0	23.2	20.8	22.2	24.5	32.4	36.6
		Unknown	85.4	85.4	83.2	88.7	76.7	70.5	75.8	81.8
		Total	70.5	69.2	73.4	75.1	77.8	78.7	80.2	82.6
		I	85.8	85.2	91.6	91.3	93.9	94.3	95.3	95.7
C53	Cervix uteri	II	56.4	60.2	61.8	62.2	77.5	78.7	81.8	79.6
(33		III	31.1	19.7	33.9	44.2	49.4	45.1	53.7	55.3
		IV	6.1	-	22.3	12.3	18.9	20.4	22.0	20.7
		Unknown	74.2	73.2	74.9	77.6	76.7	77.8	80.3	82.4
	Corpus uteri	Total	70.6	72.6	76.0	80.1	81.9	84.3	85.1	85.4
		Localised	82.6	83.8	88.3	92.0	92.0	95.9	96.5	97.4
C54		Regional	55.0	64.0	67.7	73.3	75.3	68.2	64.7	68.2
		Distant	23.5	25.2	34.8	32.9	39.6	39.9	40.7	39.6
		Unknown	40.6	49.9	53.0	83.1	86.3	76.6	65.3	60.1
	.2 Ovary etc.	Total	33.3	35.2	36.6	41.8	42.6	45.1	48.6	51.1
		Localised	76.3	80.5	83.1	94.1	85.0	89.9	97.4	100.1
C56, C57.0-4, C48.2		Regional	42.7	45.8	47.4	58.7	68.7	60.2	67.0	64.8
		Distant	15.0	16.7	19.4	26.2	29.1	31.5	35.6	38.0
		Unknown	39.1	29.1	36.6	54.5	60.6	49.2	48.6	37.1
	Kidney (excl. renal pelvis)	Total	46.8	53.1	54.5	57.3	65.3	73.9	78.3	80.7
		Localised	71.2	79.1	77.5	87.1	88.1	91.0	91.4	93.2
C64		Regional	50.3	51.7	52.2	48.5	50.7	49.0	65.1	72.3
		Distant	8.9	9.4	4.0	13.6	12.8	18.3	15.4	18.8
		Unknown	-	19.9	39.4	57.3	65.4	81.5	40.6	52.5
	Urinary tract	Total	56.7	61.8	60.8	62.5	63.9	66.1	72.8	75.8
		Localised	68.2	71.6	72.2	82.6	80.4	78.5	81.3	85.1
C65-68		Regional	15.5	19.6	21.9	27.4	21.3	23.4	31.6	40.2
		Distant	7.0		7.0	2.3	7.0	6.9	6.6	10.2
		Unknown	43.6					68.7	41.1	39.4
C70-72	Central nervous system	Total	50.3	56.6	61.4	69.9	76.5	77.9		
		Non-malignant	83.6	82.5	88.1	91.7	94.4	95.9	97.3	96.9
		Malignant	20.4	26.7	25.3	26.7	27.6	28.9	29.9	28.9
	Thyroid gland	Total	86.3							
		Localised	94.1							
C73		Regional	80.4	86.1	87.7	85.0	87.5	91.2	91.6	92.9
		Distant	-	41.0	60.0	48.3	41.7	-	-	-
		Unknown	-	-	-	86.6	87.2	81.9	74.5	92.4
C81	Hodgkin lymphoma	Total	65.4	71.3	75.4	85.2	82.4	81.3	89.1	88.8
C82-86, C96	Non-Hodgkin lymphoma	Total	48.1							
C91-95	Leukaemia	Total	27.5	36.0	49.0	54.7	60.5	67.9	73.9	75.7

^{*} For 2017–21 the 5-year relative survival estimates are based on the period approach (observation window 2017–21).

⁻ Not estimated due to too few patients (see Chapter 4).

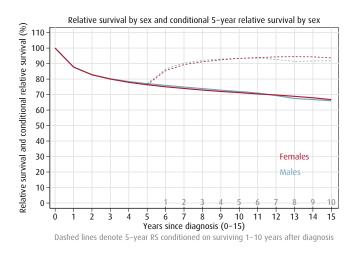
Table 8.3: 1-, 5-, 10-, and 15-year relative survival (%) with 95% confidence interval by primary site and sex. Period approach, 2017–2021

ICD-10	Site	Sex	1-year	5-year	10-year	15-year
C00-14	Marith abarras	М	89.3 (87.8-90.8)	72.5 (69.9–75.2)	64.7 (60.5-69.2)	55.1 (43.8-69.3)
C00-14	Mouth, pharynx	F	90.5 (88.6-92.4)	76.7 (73.6-80.0)	65.8 (61.1-70.8)	52.7 (43.1-64.3)
C15	Oesophagus	M	51.7 (48.8-54.8)	22.2 (19.6-25.1)	17.7 (14.9-21.1)	17.1 (13.2-22.0)
		F	56.0 (51.1-61.4)	29.8 (25.0-35.5)	25.6 (20.3-32.5)	20.2 (11.9-34.2)
C16	Stomach	М	59.2 (56.5-62.1)	30.9 (28.2-34.0)	25.0 (21.5-29.2)	17.2 (11.8-25.3)
		F	56.0 (52.5-59.7)	31.2 (27.7–35.2)	31.6 (27.0-37.0)	36.1 (27.2-48.0)
C18	Colon	М	85.5 (84.6-86.5)	69.7 (68.1-71.3)	62.2 (59.1-65.5)	53.7 (45.8-63.1)
		F	84.8 (84.0-85.7)	71.0 (69.7–72.4)	68.9 (66.6-71.4)	68.7 (63.1-74.9)
C10. 20	Rectum, rectosigmoid	М	89.2 (88.1-90.3)	71.9 (70.1-73.8)	66.9 (63.8-70.2)	65.9 (58.0-75.0)
C19-20		F	89.9 (88.6-91.1)	73.5 (71.4–75.6)	65.6 (62.3-69.1)	59.1 (52.6-66.5)
(22	Liver	М	50.5 (47.2-54.1)	25.3 (22.0-29.2)	16.4 (9.3-29.0)	12.2 (6.2-23.7)
C22		F	47.0 (42.7-51.8)	24.8 (20.9–29.4)	18.4 (14.4-23.5)	17.2 (11.7-25.2)
C23-24	Gallbladder, bile ducts	М	59.4 (54.2-65.1)	26.8 (22.1-32.5)	19.4 (13.6-27.6)	19.1 (12.3-29.6)
		F	57.6 (52.5-63.3)	24.9 (20.3-30.5)	21.0 (16.1-27.3)	13.7 (7.5-25.1)
625	Pancreas	М	39.7 (37.6-42.0)	14.7 (13.1-16.6)	10.2 (7.8-13.3)	5.9 (1.2-29.5)
C25		F	41.2 (38.9-43.7)	14.6 (12.8-16.6)	11.2 (9.1-13.7)	7.7 (4.6-13.1)
622.24	Lung, trachea	М	52.7 (51.6-53.9)	25.7 (24.6-26.9)	17.1 (15.8-18.5)	12.3 (10.6-14.3)
C33-34		F	59.5 (58.4-60.7)	32.8 (31.6-34.1)	23.0 (21.6-24.5)	16.6 (14.8-18.5)
C42	Melanoma of the skin	М	97.5 (96.9-98.0)	90.3 (89.0-91.6)	87.0 (84.2-89.9)	92.3 (87.0-98.0)
C43		F	98.5 (98.0-99.0)	95.2 (94.1-96.4)	93.2 (90.5-96.0)	90.2 (84.6-96.1)
C50	Breast	F	98.2 (97.9-98.4)	92.3 (91.7-92.9)	86.6 (85.5-87.8)	81.1 (78.3-84.0)
C53	Cervix uteri	F	93.6 (92.4-94.8)	82.6 (80.7-84.6)	78.3 (75.8-80.9)	75.9 (72.0-80.0)
C54	Corpus uteri	F	94.7 (93.9-95.5)	85.4 (83.9-87.0)	86.1 (83.5-88.8)	84.4 (78.0-91.4)
C56, C57.0-4, C48.2	Ovary etc.	F	84.5 (83.0-86.1)	51.1 (48.9-53.3)	38.7 (36.2-41.3)	35.2 (31.5-39.3)
C61	Prostate	М	99.5 (99.3-99.7)	95.5 (95.0-96.1)	91.6 (90.4-92.9)	82.9 (79.9-86.1)
C62	Testis	М	99.3 (98.8-99.8)	98.8 (98.0-99.6)	99.3 (98.3-100.3)	98.4 (97.0-99.9)
544	Kidney (excl. renal pelvis)	M	90.7 (89.5-91.9)	78.9 (76.9-80.8)	70.4 (67.2-73.7)	61.0 (53.8-69.2)
C64		F	91.5 (89.9-93.1)	80.7 (78.2-83.4)	72.9 (68.8-77.2)	59.9 (51.9-69.1)
645.40	Urinary tract	М	90.9 (90.1-91.8)	80.3 (78.7-81.9)	76.9 (73.8-80.2)	64.0 (55.2-74.3)
C65-68		F	86.7 (85.1-88.2)	75.8 (73.4-78.3)	66.7 (62.6-71.0)	56.4 (47.4-67.2)
670.72	Central nervous system	М	76.7 (74.8-78.6)	57.0 (54.7-59.3)	53.7 (51.0-56.6)	48.6 (43.6-54.1)
C70-72		F	86.3 (85.0-87.7)	74.5 (72.6-76.4)	71.2 (68.8-73.8)	69.1 (65.5-73.0)
C73	Thyroid gland	М	94.8 (93.0-96.5)	90.0 (87.0-93.0)	84.4 (79.6-89.4)	81.7 (73.6-90.6)
		F	96.7 (95.7-97.7)	95.1 (93.5-96.8)	95.8 (92.8-98.9)	101.6 (95.9-107.6)
501	Hodgkin lymphoma	M	95.5 (93.4-97.6)	91.2 (88.1-94.3)	86.5 (82.4-90.8)	83.1 (78.3-88.2)
C81		F	93.4 (90.2-96.6)	88.8 (84.4-93.3)	81.4 (75.6-87.6)	77.8 (70.6-85.8)
502.04.55	Non-Hodgkin lymphoma	М	88.1 (86.7-89.4)	77.9 (75.8-80.0)	66.9 (63.4-70.5)	60.2 (54.0-67.0)
C82-86, C96		F	89.4 (88.0-90.8)	80.0 (77.8-82.2)	71.4 (68.4-74.6)	62.8 (55.0-71.8)
	Leukaemia	М	86.1 (84.9-87.4)	71.0 (69.1–73.0)	62.3 (59.3-65.5)	49.3 (43.3-56.2)
C91-95		F	87.3 (86.0-88.7)	75.7 (73.7–77.8)	66.4 (63.1-69.8)	56.7 (51.3-62.8)

⁻ Not estimated due to too few patients (see Chapter 4).

Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-A: All sites (ICD-10 C00-96)



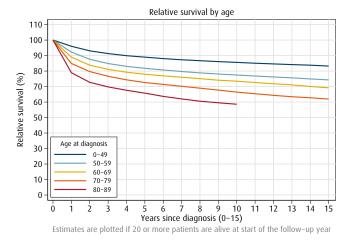
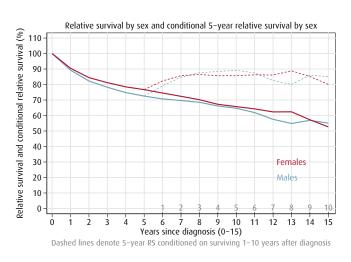


Figure 8.1-B: Mouth, pharynx (ICD-10 C00-14)



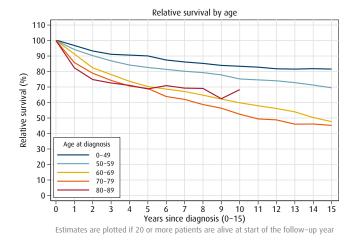
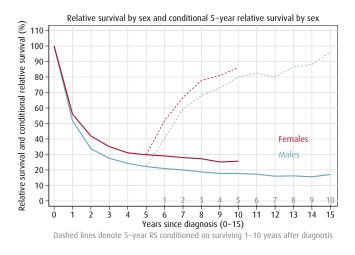


Figure 8.1-C: Oesophagus (ICD-10 C15)



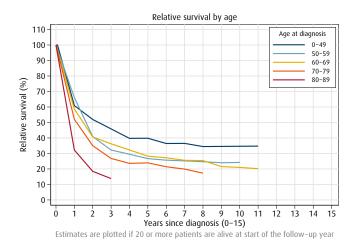
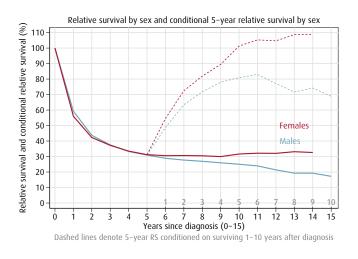


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-D: Stomach (ICD-10 C16)



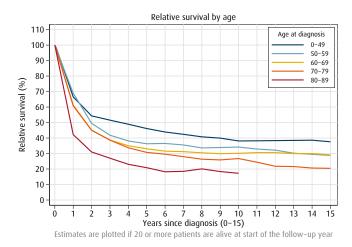
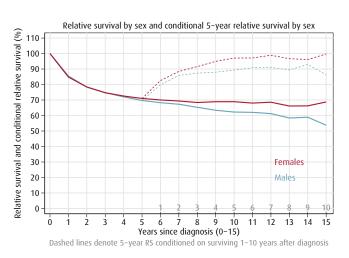


Figure 8.1-E: Colon (ICD-10 C18)



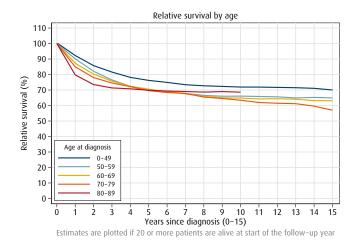
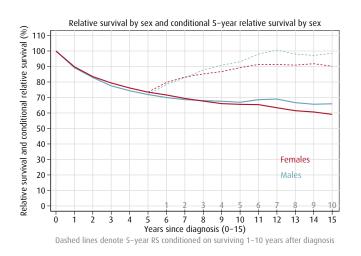


Figure 8.1-F: Rectum, rectosigmoid (ICD-10 C19-20)



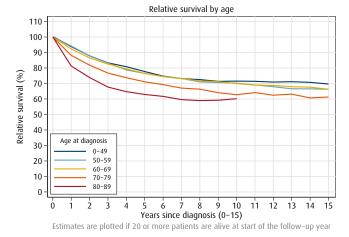
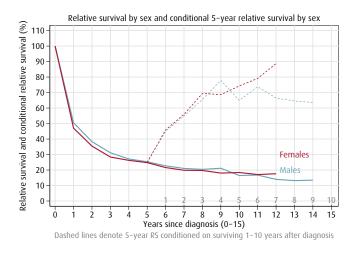


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-G: Liver (ICD-10 C22)



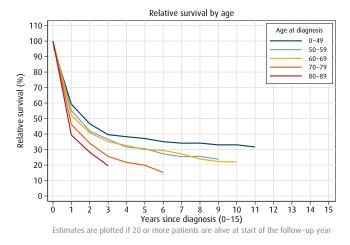
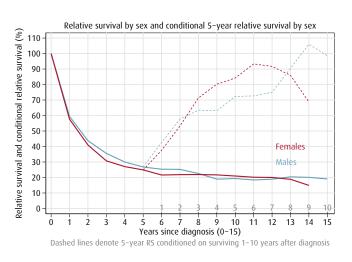


Figure 8.1-H: Gallbladder, bile ducts (ICD-10 C23-24)



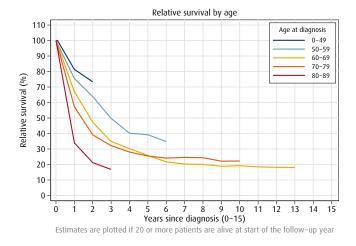


Figure 8.1-I: Pancreas (ICD-10 C25)



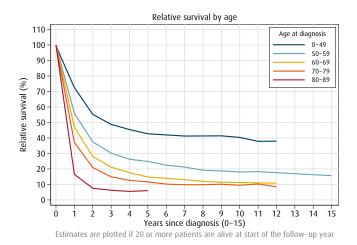
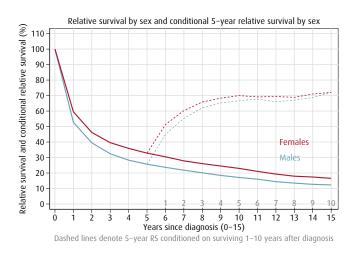


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-J: Lung, trachea (ICD-10 C33-34)



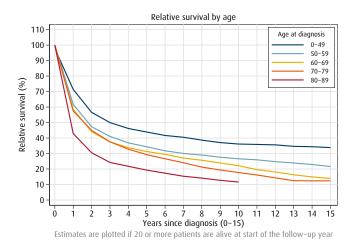
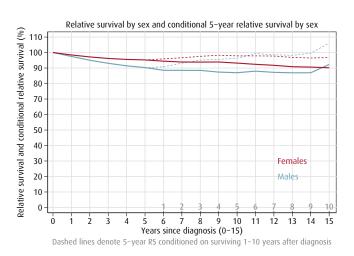


Figure 8.1-K: Melanoma of the skin (ICD-10 C43)



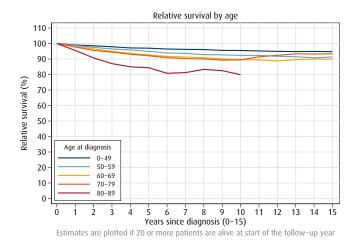
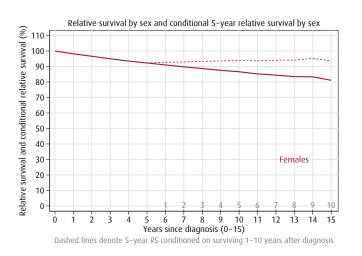


Figure 8.1-L: Breast (ICD-10 C50)



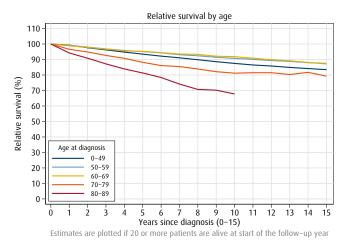


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-M: Cervix uteri (ICD-10 C53)



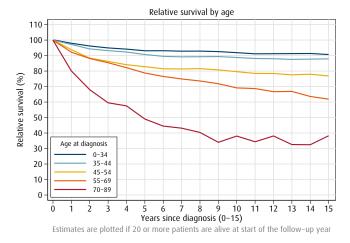
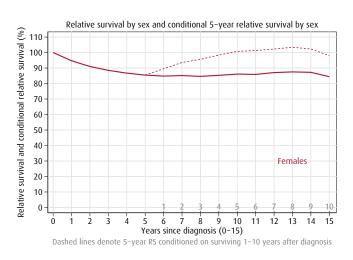


Figure 8.1-N: Corpus uteri (ICD-10 C54)



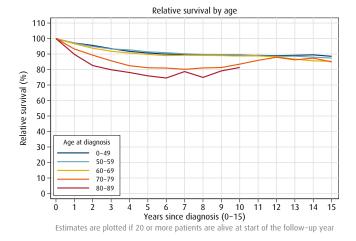
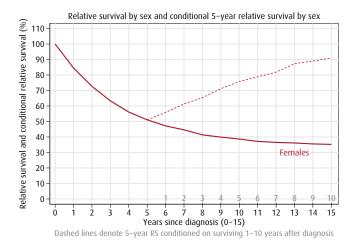


Figure 8.1-0: Ovary etc. (ICD-10 C56, C57.0-4, C48.2)



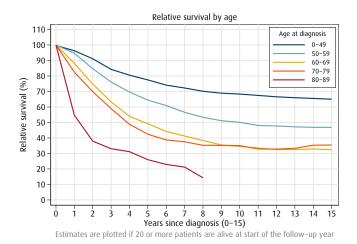
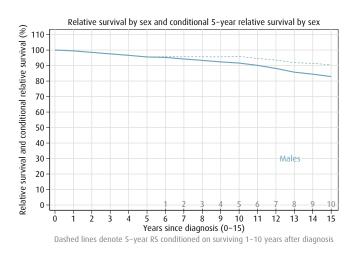


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-P: Prostate (ICD-10 C61)



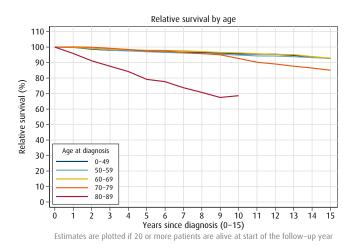
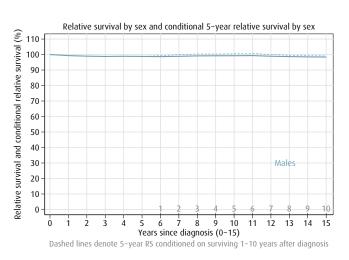


Figure 8.1-Q: Testis (ICD-10 C62)



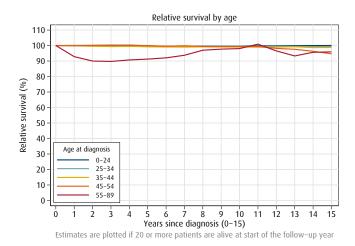
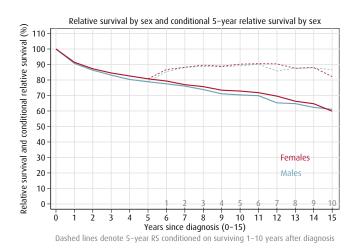


Figure 8.1-R: Kidney (excl. renal pelvis) (ICD-10 C64)



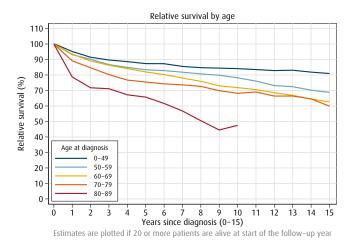
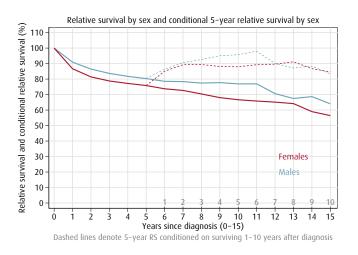


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-S: Urinary tract (ICD-10 C65-68)



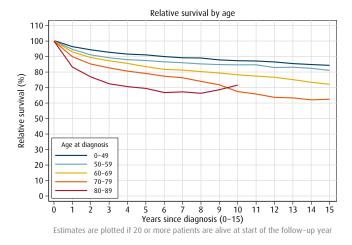
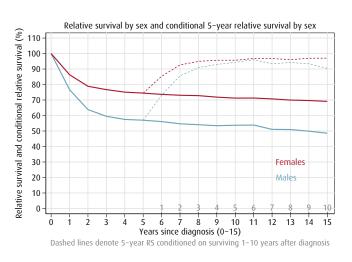


Figure 8.1-T: Central nervous system (ICD-10 C70-72)



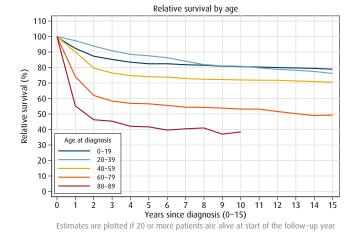
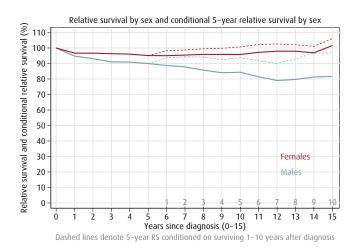


Figure 8.1-U: Thyroid gland (ICD-10 C73)



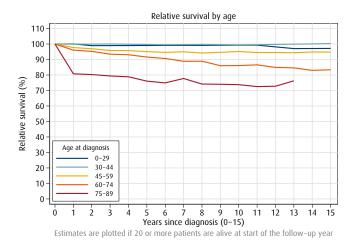
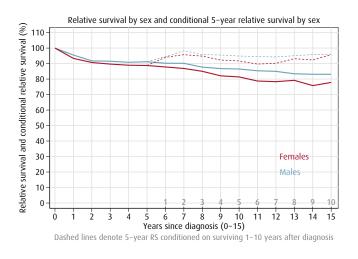


Figure 8.1: Relative survival (RS) up to 15 years after diagnosis by sex and age, 2017–2021

Figure 8.1-V: Hodgkin lymphoma (ICD-10 C81)



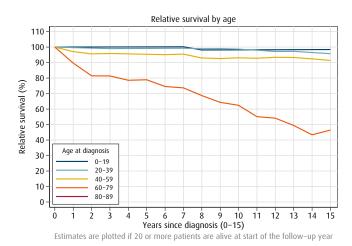
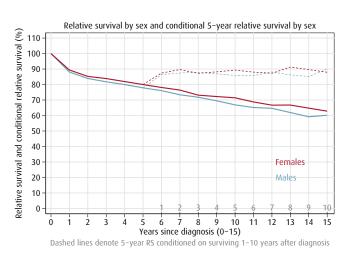


Figure 8.1-W: Non-Hodgkin lymphoma (ICD-10 C82-86, C96)



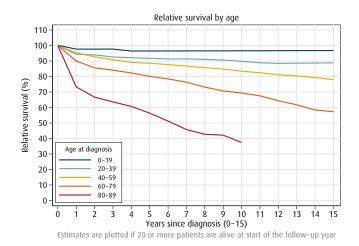
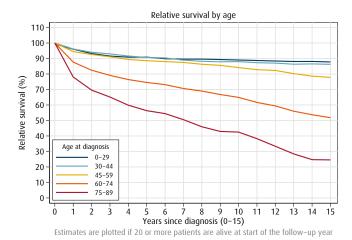


Figure 8.1-X: Leukaemia (ICD-10 C91-95)





Chapter 9 Trends in incidence, mortality and survival, Norway 1965–2021

There has been considerable discussion of the relative merits of analysing incidence, mortality and survival rates in cancer research, and specifically of analysing time trend in these disease measures^[25–29]. Trend analyses may provide some insight into changes in the distribution of risk factors, and into the impact of interventions and screening aimed at prevention or early diagnosis. Mortality rates and survival proportions are both key measures of disease outcome, and may, of course, reflect the incidence rates or alert us to beneficial effects of screening, more effective therapies, or improved disease management.

The contribution of artefacts to the observed cancer incidence and mortality trends has been comprehensively addressed^[30,31]. The accuracy of death certificates has also been discussed^[32–34]. Apart from artefacts related to registration practices, many of the factors that affect incidence also apply to mortality, given that both rely on the frequency of the disease and the accuracy of the initial cancer diagnosis. As with incidence, survival estimates may be affected by changes in diagnostic methods and precision, as well as the extent of cancer screening that detect more cases in an earlier stage of the disease.

There is a general consensus that a combined description of trends in incidence, mortality and survival aids our understanding of the underlying biological, epidemiological and clinical processes. As each indicator is subject to unique or shared artefacts that tend to vary according to cancer type over time, their simultaneous assessment often enables the identification of systematic deviations in one or more of the three measures. Figures 9.1-A to 9.1-X present time trends during 1965-2021 for agestandardised incidence and mortality rates and fiveyear relative survival estimates (mortality through 2020, only). It should be noted that these summary measures will often fail to reflect true underlying age-calendaryear interactions for specific cancers, such as differences in survival and mortality trends by age with respect to calendar time, or the presence of strong birth cohort influences in incidence trends.

The trends for **all sites** in Figure 9.1–A show a persistent increase in cancer survival in Norway for both genders over the last five decades. The incidence rates have also increased, but for men the trend has levelled off and

a decrease is seen for the last few years. The mortality rates were fairly stable until the late 1990s both for men and women. From 2000 onwards, it was a notable decline in the mortality rate in men, and a slight decline in women, still, both incidence and mortality were always lower in women than in men. The interpretation of these aggregated estimates is complex, in that they comprise many different cancer types, with rates differing between women and men, some of them sex-specific cancer types, which all may vary in terms of their capacity to be diagnosed as well as treated.

Among men, 27% of all cancers diagnosed in 2021 were prostate cancers. General screening for prostate cancer using the PSA test is not recommended in Norway. However, the doubling in incidence and the improved relative survival from 1990 to mid-2000s (Figure 9.1-O) probably reflects the availability and upsurge in the use of the PSA test for early detection of disease. During the last two decades, the incidence of prostate cancer has stabilised, and a marked decrease is seen in the last five to six years. Mortality declined from around 1996, and both early diagnosis and improved and more active treatment may have had an impact. These trends may also result from improved workup and diagnostics as suggested in Table 5.23 of the present report, demonstrating trends in age-standardised incidence rates according to stage of the cancer disease. Since 1992, there has been an eight-fold increase of cancer prostate with regional spreading (invading neighbouring tissue or metastasised to regional lymph nodes), while the rate of prostate cancer with distant metastases has decreased somewhat. Improved diagnostics may secure a more adequate treatment.

Breast cancer comprised more than 20% of all female cancer cases. There has been a monotonous increase in the incidence rate up to 2005 with a steeper increase in the mid-1990s followed by a slight but notable decline between 2005 and 2009 (Figure 9.1–M). The Norwegian Breast Cancer Screening Programme started as a four-year pilot project in four of the former nineteen Norwegian counties in 1996, and gradually expanded to become nationwide by 2005. The programme invites women aged 50–69 years to biennial mammography. The implementation of the screening programme explains

much of the increasing incidence trend from the mid 1990s to 2005. The figures for recent years indicate a new increase in incidence. The age-specific rates show that the rise primarily is limited to the age group 60–79 (not shown). The increase may thus be related to more sensitive diagnostic methods both within and outside the screening programme, combined with women continuing to have mammography after the age of 70. There was a drop in breast cancer incidence from 2019 to 2020, which is possibly explained by the fact that all screening activity in the Mammography programme ceased for a few months from mid-March 2020, when large parts of society in general closed down to limit infection of COVID-19 in the population. In 2021, the incidence rates increased to a level above that observed in 2019.

Breast cancer mortality was almost stable up to the mid-1990s when it began declining (Figure 9.1–M). This good news most likely reflect a combination of improved diagnostics, better treatment, and the implementation of the screening programme for breast cancer. Today, 92% of women with breast cancer survive their cancer for five years or more (5-year relative survival).

The trends in **lung cancer** incidence and mortality rates have followed each other closely. Since early 2000s, the distance between the rates has increased, reflecting improved survival for these patients. Although the survival for lung cancer is still poor compared to other cancers, it has increased by more 10 percentage-points during the last ten years, and 26% of men and 33% of women with lung cancer now survive their cancer for at least five years. The varying incidence trends by sex reflect the different phases of the smoking epidemic in Norwegian men and women (Figure 9.1-J). Overall, lung cancer incidence and mortality rates among males began to level off in the mid-1990s and have declined the past ten years. For women, we have observed signs of a stabilisation in the rate during recent years. However, the rate reached an all-time high level in 2018. Although it is too early to decide whether 2018 represents a turning point, it is interesting to note that the lung cancer rates seem to decline for all age groups below 80. The number of new lung cancer cases among women surpassed that of men in 2018 and 2019, while the rates still are lower due to a higher number of women attaining high age. The severity of this observation is illustrated by the fact that lung cancer has surpassed breast cancer as the most frequent cause of cancer death among women.

The incidence of **cancer in colon and rectum** has increased for many decades, but the rectal cancer rate levelled off in the 1990s and is now declining. For colon cancer, a levelling off has been seen in the incidence rate since around 2010, and among men we even spot a slight decline (Figure 9.1–E and 9.1–F). Of particular

note is the increasing survival and declining mortality from rectal cancer in both sexes, and the mortality is now nearly half of what it used to be before 1995. The most important determinants are probably the national introduction of total mesorectal excision in the early 1990s, increased specialisation, and use of preoperative radiation. However, our colon cancer incidence and mortality rates are among the highest in the world and remain a serious health concern.

Some other specific sites are also worthy of note. The long-term decline in **stomach cancer** incidence and mortality is most likely caused by better hygiene and increased intake of fresh or frozen food, which have reduced the prevalence of *Helicobacter pylori* infections and reduced the use of potentially harmful methods of food preservation. The survival of stomach cancer has increased slowly from 10% to 30% five-year relative survival over the last 50 years (Figure 9.1–D).

In contrast, the incidence rate of **testicular cancer** increased gradually until 2007 (Figure 9.1–Q). An improvement in therapy started in the 1970s with the introduction of cisplatin for advanced germ cell tumours, leading to greatly improved prognosis for testicular cancer in young and middle-aged men. This cancer now has the highest five-year relative survival.

A remarkable increase in incidence rates has been seen during the last decades for **melanoma of the skin** in both sexes (Figure 9.1–K). The steep rise is suggested to result from sun exposure habits. However, we cannot exclude the possibility that increased awareness, both in the general population and among general practitioners, and sliding of the diagnostic criteria, may also have contributed to the increase. The moderate but steady increase in melanoma mortality until 2010 indicates that some of the increase in incidence is indeed caused by a higher risk of the disease.

The classification of diseases changes over time, and sometimes this appears clearly in the incidence trends. In 2002, polycythaemia vera (D45), myelodysplastic syndromes (D46) and other neoplasms of uncertain or unknown behaviour of lymphoid, hematopoietic and related tissue (D47) were included in the statistics for leukaemia, and this inclusion caused a sudden rise in the incidence in men. In 2020, a review was made of all registered cases of malignant and benign cases, and we then identified benign cases (D45, D46 and D47) that were registered before 2002, while they were previously not counted in the statistics. This is the explanation for the sharp increase in incidence from 1992 to 1993 (Figure 9.1-X). Moreover, due to international guidelines of conversions between ICD-O-3 and ICD-10 and stricter adherence to these in this report there are some cases

that have been reclassified from non-Hodgkin lymphoma to chronic lymphatic leukaemia. The treatment of leukaemia has improved, and a steep prolonged increase in the survival is observed since the early 1970s.

Cancer of the bladder and urinary tract is the fourth most frequent cancer in men but is less frequent in women. For men, the incidence rate increased gradually until the early 1990s, but has since then been less pronounced. For women, a slight increase has lasted until recent years. The incidence trends for both sexes are weak reflexions of the incidence rates of lung cancer, as the two cancer forms share a common important cause: tobacco smoking. The mortality rate has decreased since early 2000, reflecting the increase in survival (Figure 9.1–S).

Finally, among more uncommon cancer sites, there has been a notable increase in the rates for **liver and thyroid cancer** in both genders (Figures 9.1–G and 9.1–U). The rise of thyroid cancers during the last decade is also seen in the other Nordic countries, except in Iceland where the rates have been consistently higher than in Scandinavia since 1960. We do not know the exact reason for the Scandinavian increase, but similar trends have been observed internationally, possibly linked to changes in

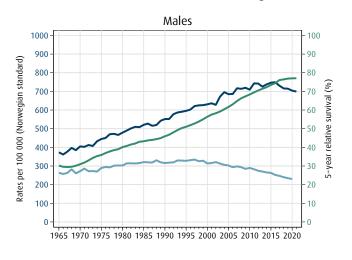
the diagnostic workup. There has been an increased use of ultrasound, CT and MRI for other indications, possibly resulting in incidental findings of tumours in the thyroid^[35]. The increased rate of liver cancer was earlier suspected to be due to a rising proportion of immigrants from areas with higher risk of liver cancer. A study from 2018, revealed that this assumption was incorrect, and that there is an increase in liver cancer incidence also among Norwegian-born^[36].

In summary, the overall trends in cancer survival reflect a complex pattern of factors operating together, such as screening programmes, unrecommended screening, and improved diagnostics, all associated with some degree of overdiagnosis (tumours that would have remained harmless throughout life), improved treatment, and improved general health (less comorbidity among cancer patients). For prostate and breast cancer, both early diagnosis and improvements in treatment are likely to have played a role. For rectal cancer, the improved survival is most likely caused by better treatment.

Note: For Figure 9.1–F, the mortality rate for rectosigmoid (C19–20) includes anal cancer.

Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-A: All sites (ICD-10 C00-96)



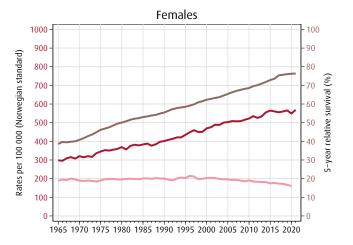
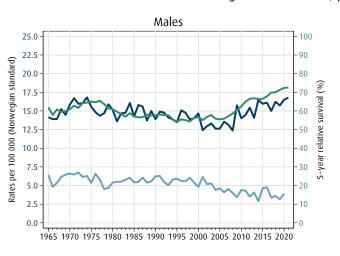


Figure 9.1-B: Mouth, pharynx (ICD-10 C00-14)



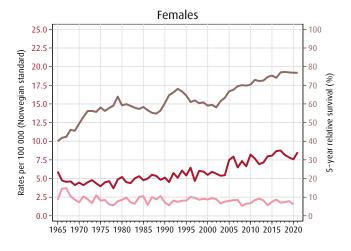
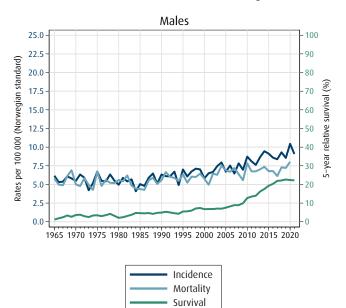


Figure 9.1–C: Oesophagus (ICD-10 C15)



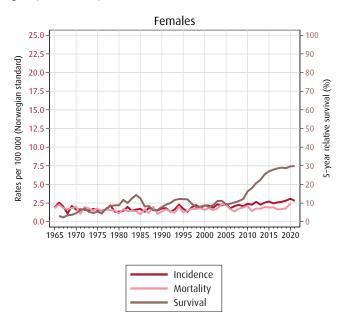
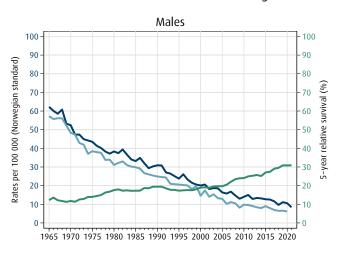


Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-D: Stomach (ICD-10 C16)



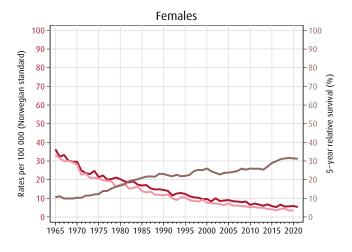
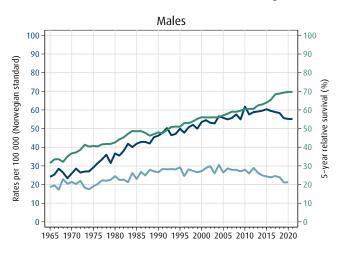


Figure 9.1–E: Colon (ICD-10 C18)



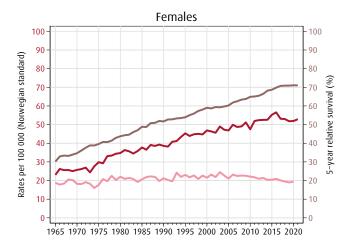
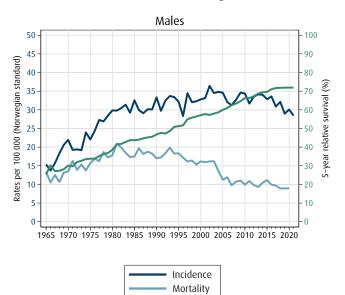


Figure 9.1-F: Rectum, rectosigmoid (ICD-10 C19-20)



Survival

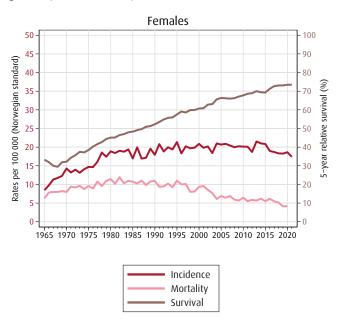
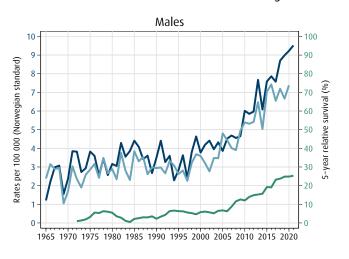


Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-G: Liver (ICD-10 C22)



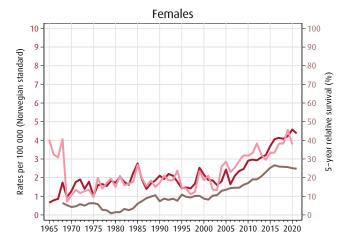
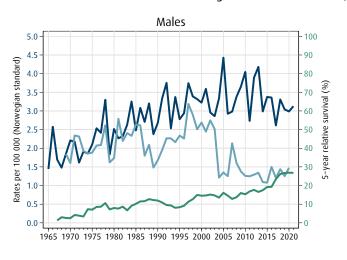


Figure 9.1-H: Gallbladder, bile ducts (ICD-10 C23-24)



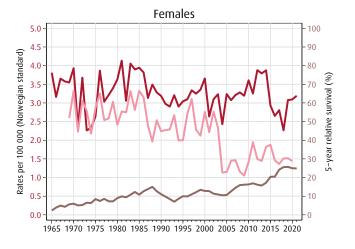
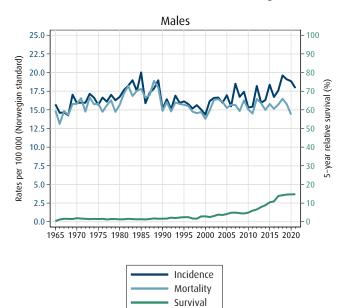


Figure 9.1-I: Pancreas (ICD-10 C25)



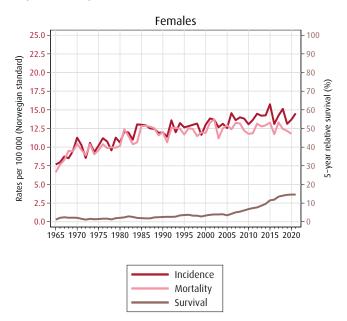
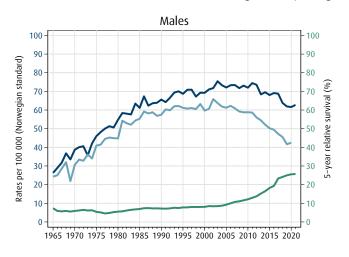


Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-J: Lung, trachea (ICD-10 C33-34)



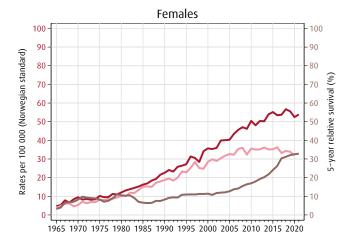
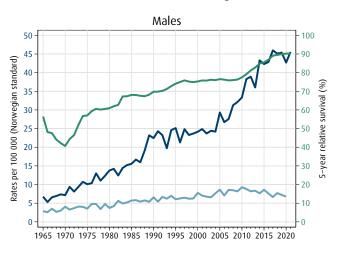


Figure 9.1-K: Melanoma of the skin (ICD-10 C43)



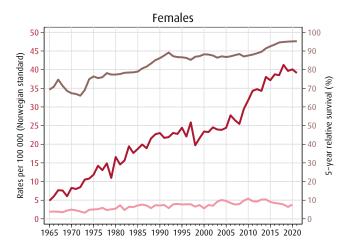
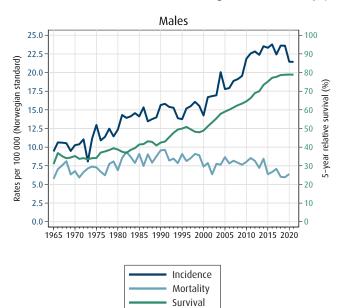


Figure 9.1-L: Kidney (excl. renal pelvis) (ICD-10 C64)



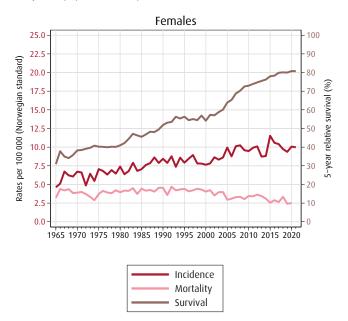


Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-M: Breast (ICD-10 C50)

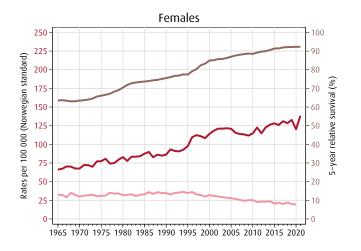


Figure 9.1-N: Cervix uteri (ICD-10 C53)

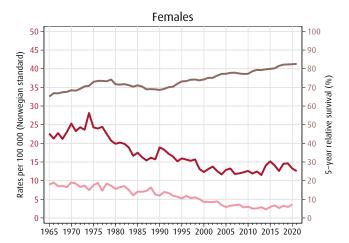


Figure 9.1-0: Prostate (ICD-10 C61)

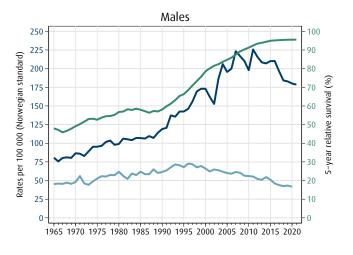


Figure 9.1-P: Corpus uteri (ICD-10 C54)

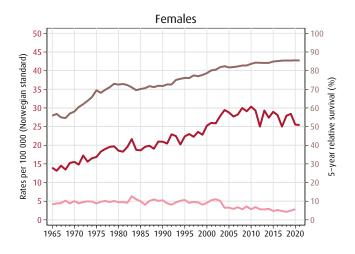


Figure 9.1–Q: Testis (ICD-10 C62)

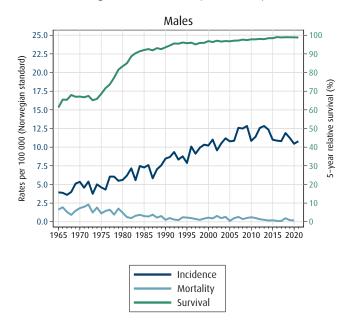


Figure 9.1-R: Ovary etc. (ICD-10 C56, C57.0-4, C48.2)

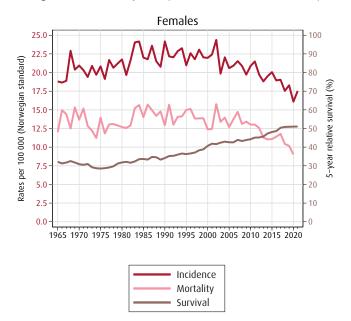
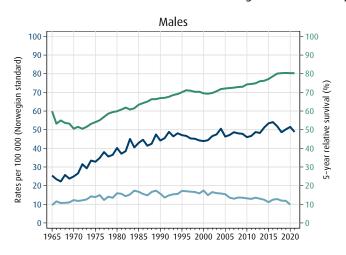


Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-S: Urinary tract (ICD-10 C65-68)



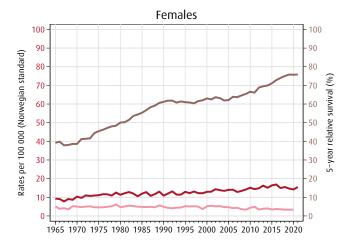
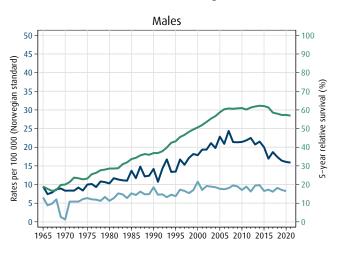


Figure 9.1-T: Central nervous system (ICD-10 C70-72)



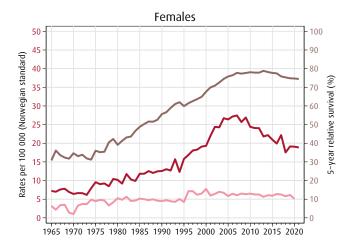
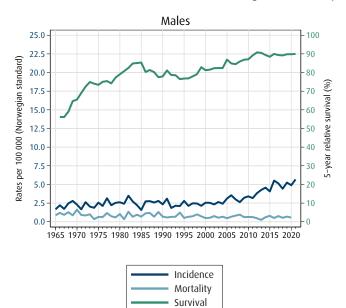


Figure 9.1-U: Thyroid gland (ICD-10 C73)



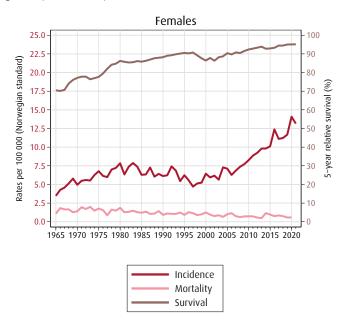
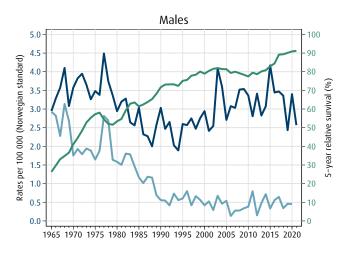


Figure 9.1: Trends in incidence and mortality rates and 5-year relative survival proportions

Figure 9.1-V: Hodgkin lymphoma (ICD-10 C81)



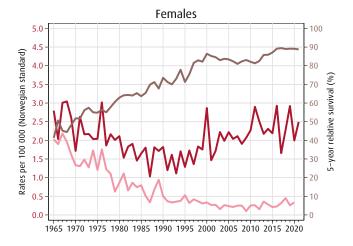
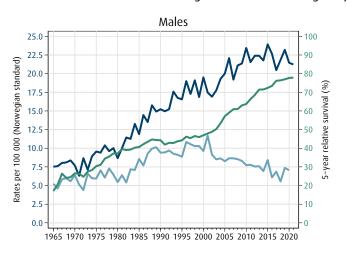


Figure 9.1-W: Non-Hodgkin lymphoma (ICD-10 C82-86, C96)



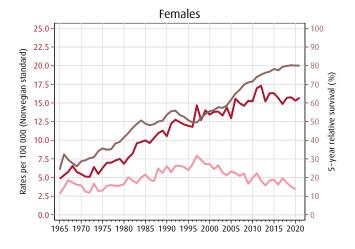
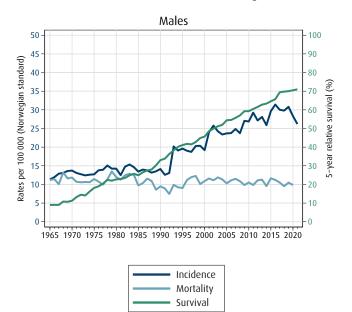
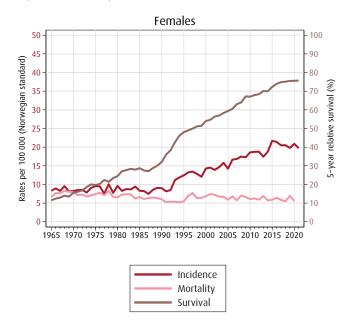


Figure 9.1-X: Leukaemia (ICD-10 C91-95)





Bibliography

- [1] Last JM, Spasoff RA, Harris SS and Thuriaux MC. *A dictionary of epidemiology*. International Epidemiological Association, Inc., 2001 (cit. on p. 1).
- [2] Statistics Norway. Population. Table 05803: Population 1 January and population changes during the calendar year 1735–2021. Updated: 19. August 2021. Accessed: 23. August 2021. URL: https://www.ssb.no/en/statbank/table/05803/(cit. on p. 4).
- [3] Statistics Norway. National population projections. Table 12881: Population projections 1 January, by sex, age, immigration category and country background, in 15 alternatives 2020–2100. Updated: 3. June 2020. Accessed: 2. May 2022. URL: https://www.ssb.no/en/statbank/table/12881 (cit. on p. 4).
- [4] Statistics Norway. Immigrants and Norwegian-born to immigrant parents. Table 1: Population by immigrant category and country background. Updated: 7. March 2022. Accessed: 2. May 2022. URL: https://www.ssb.no/en/befolkning/innvandrere/statistikk/innvandrere-og-norskfodte-med-innvandrerforeldre (cit. on p. 4).
- [5] Larsen IK, Småstuen M, Johannesen TB, Langmark F, Parkin DM, Bray F and Møller B. Data quality at the Cancer Registry of Norway: an overview of comparability, completeness, validity and timeliness. *European journal of cancer* 45.7 (2009), pp. 1218–1231 (cit. on pp. 5, 12).
- [6] Møller B, Jerm MB, Larønningen S, Johannesen TB, Seglem AH, Larsen IK and Myklebust TÅ. The validity of cancer information on death certificates in Norway and the impact of death certificate initiated cases on cancer incidence and survival. *Cancer Epidemiol.* 75.Dec (2021), p. 102023 (cit. on p. 8).
- [7] Fritz A, Percy C, Jack A, Shanmugaratnam K, Sobin L, Parkin DM, Whelan S et al. *International classification of diseases for oncology.* Ed. 3, 1st revision. World Health Organization, Geneva, 2013 (cit. on p. 11).
- [8] Bray F and Parkin DM. Evaluation of data quality in the cancer registry: principles and methods. Part I: comparability, validity and timeliness. *European journal of cancer* 45.5 (2009), pp. 747–755 (cit. on p. 12).
- [9] Parkin DM and Bray F. Evaluation of data quality in the cancer registry: principles and methods Part II. Completeness. *European journal of cancer* 45.5 (2009), pp. 756–764 (cit. on pp. 12, 17).
- [10] Cancer in Norway 2020, Technical Supplement: Statistical Methods. 2021. URL: https://www.kreftregisteret.no/globalassets/cancer-in-norway/2020/cin-2020supmeth.pdf (cit. on pp. 14, 18, 19).
- [11] Segi M. Cancer mortality for selected sites in 24 countries (1950–1957). *Sendai: Tohoku University School of Medicine* (1960) (cit. on p. 16).
- [12] Doll R, Payne P and Waterhouse J. *Table 38. In: Cancer incidence in five continents: a technical report. International Union against Cancer.* Springer, Berlin, 1966, pp. 217–9 (cit. on p. 16).
- [13] Day NE. Cancer Incidence in Five Continents. Cumulative rate and cumulative risk. *IARC scientific publications* 120 (1992), p. 862 (cit. on p. 17).
- [14] Brenner H and Hakulinen T. Maximizing the benefits of model-based period analysis of cancer patient survival. *Cancer Epidemiology and Prevention Biomarkers* 16.8 (2007), pp. 1675–1681 (cit. on p. 18).
- [15] Rosso S, De Angelis R, Ciccolallo L, Carrani E, Soerjomataram I, Grande E, Zigon G et al. Multiple tumours in survival estimates. *European Journal of Cancer* 45.6 (2009), pp. 1080–1094 (cit. on p. 18).
- [16] Coviello E, Seppä K, Dickman PW and Pokhrel A. Estimating net survival using a life-table approach. *The Stata Journal, StataCorp LP* 15.1 (2015), pp. 173–185 (cit. on p. 18).
- [17] Perme MP, Stare J and Estève J. On Estimation in Relative Survival. *Biometrics* 68.1 (2012), pp. 113–120 (cit. on p. 18).
- [18] Brenner H, Arndt V, Gefeller O and Hakulinen T. An alternative approach to age adjustment of survival rates. 40.15 (2004), pp. 2317–2322 (cit. on p. 18).
- [19] Rutherford MJ, Dickman PW, Coviello E and Lambert PC. Estimation of age-standardized net survival, even when age-specific data are sparse. *Cancer Epidemiology* 67 (2020), p. 101745 (cit. on p. 18).
- [20] Hankey BF and Steinhorn SC. Long-term patient survival for some of the more frequently occurring cancers. *Cancer* 50.9 (1982), pp. 1904–1912 (cit. on p. 19).
- [21] Janssen-Heijnen ML, Houterman S, Lemmens VE, Brenner H, Steyerberg EW and Coebergh JW. Prognosis for long-term survivors of cancer. *Annals of Oncology* 18.8 (2007), pp. 1408–1413 (cit. on pp. 19, 86).

- [22] Gade FG. Undersøkelser over kræftsygdommene i Norge, paa grundlag av den officielle mortalitetsstatistik 1902–1911 samt det av den norske komité for kræftforskning samlede materiale 1908–1912 [Investigations on cancer diseases in Norway, based on official mortality statistics 1902–1911 and material collected by the Norwegian Committee for cancer research 1908–1911]. Dybwad, Kristiania (Oslo), 1916, pp. 1–102 (cit. on p. 27).
- [23] Brenner H and Hakulinen T. Very-long-term survival rates of patients with cancer. *Journal of Clinical Oncology* 20.21 (2002), pp. 4405–4409 (cit. on p. 86).
- [24] Lambert PC et al. Modeling of the cure fraction in survival studies. *Stata Journal* 7.3 (2007), p. 351 (cit. on p. 86).
- [25] Boyle P. Relative value of incidence and mortality data in cancer research. In: *Cancer Mapping*. Springer, 1989, pp. 41–63 (cit. on p. 101).
- [26] Coleman MP. Trends in breast cancer incidence, survival, and mortality. *Lancet (London, England)* 356.9229 (2000), pp. 590–1 (cit. on p. 101).
- [27] Doll R and Peto R. The causes of cancer: quantitative estimates of avoidable risks of cancer in the United States today. *Journal of the National Cancer Institute* 66.6 (1981), pp. 1192–1308 (cit. on p. 101).
- [28] Hakulinen T. Cancer survival corrected for heterogeneity in patient withdrawal. *Biometrics* (1982), pp. 933–942 (cit. on p. 101).
- [29] Peto R, Boreham J, Clarke M, Davies C and Beral V. UK and USA breast cancer deaths down 25% in year 2000 at ages 20–69 years. *Lancet* 355.9217 (2000), p. 1822 (cit. on p. 101).
- [30] Saxén EA. Trends: facts or fallacy. *Trends in cancer incidence. Causes and practical implications* (1982), pp. 5–16 (cit. on p. 101).
- [31] Muir CS, Fraumeni Jr JF and Doll R. The interpretation of time trends. *Cancer surveys* 19 (1993), pp. 5–21 (cit. on p. 101).
- [32] Percy C, Stanek 3rd E and Gloeckler L. Accuracy of cancer death certificates and its effect on cancer mortality statistics. *American Journal of Public Health* 71.3 (1981), pp. 242–250 (cit. on p. 101).
- [33] Alfsen CG, Lyckander LG, Lindboe AW and Svaar H. Kvalitetssikring ved dødsfall i sykehus. *Tidsskr Nor Laegeforen* 130.5 (2010), p. 476 (cit. on p. 101).
- [34] Bakken IJ, Ellingsen CL, Pedersen AG, Leistad L, Kinge JM, Ebbing M and Vollset SE. Comparison of data from the Cause of Death Registry and the Norwegian Patient Register. *Tidsskr Nor Laegeforen* 135.21 (2015), pp. 1949–53. ISSN: 0029-2001. DOI: 10.4045/tidsskr.14.0847 (cit. on p. 101).
- [35] Vaccarella S, Franceschi S, Bray F, Wild CP, Plummer M and Maso LD. Worldwide Thyroid-Cancer Epidemic? The Increasing Impact of Overdiagnosis. *N Engl J Med* 375 (2016), pp. 614–617 (cit. on p. 103).
- [36] Hjerkind KV, Larsen IK, Møller B and Ursin G. Kreftutvikling og befolkningssammensetning i Norge 1990–2016. *Tidsskriftet for den norske legeforening* Nov 22;138.19 (2018) (cit. on p. 103).

Return Address:

Kreftregisteret P.O. box 5313 Majorstuen N-0304 Oslo Norway

Cancer Registry of Norway Institute of Population-based Cancer Research

Postal Address: P.O. box 5313 Majorstuen N-0304 Oslo Norway

Office Address: Ullernchausséen 64, Oslo

Telephone: +47 22 45 13 00

E-mail: kreftregisteret@kreftregisteret.no

Internet: www.kreftregisteret.no