

Belgian Cancer Registry



Cancer Fact Sheet **Lung Cancer**

ICD10 : C34

Belgium 2020

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Lung Cancer: Average age at diagnosis, number of new cancer diagnoses (N), crude rate (CR), age-standardised incidence rates (ESR and WSR) and cumulative risk by sex and region, 2020

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	70.0	5,563	98.3	68.4	45.8	5.79
Brussels-Capital Region	68.5	396	66.3	68.1	45.8	5.81
Flemish Region	71.0	3,261	99.4	63.4	42.1	5.29
Walloon Region	68.7	1,906	107.0	77.9	52.7	6.72

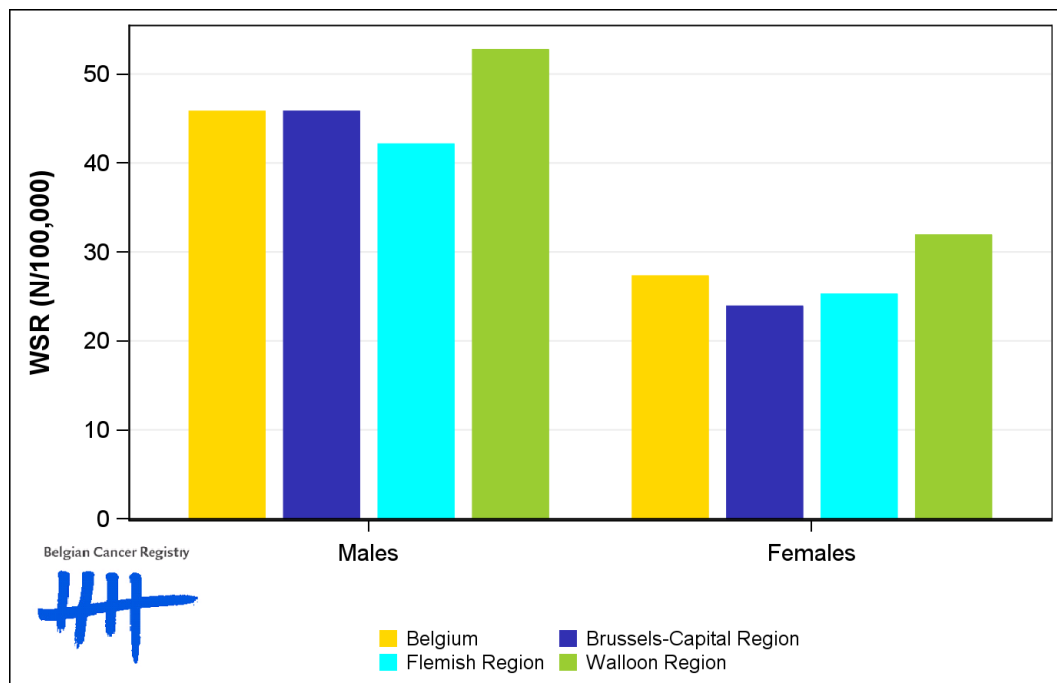
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	67.8	3,311	56.8	38.9	27.3	3.61
Brussels-Capital Region	68.5	241	38.8	34.3	23.9	3.04
Flemish Region	68.3	1,848	55.2	36.0	25.3	3.37
Walloon Region	67.0	1,222	65.6	45.3	31.9	4.18

CR=Crude (all ages) Rate (N/100,000 person-years)
 ESR (1976)=Age-Standardised Rate, using the European Standard Population (N/100,000 person-years)
 WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
 CRi=Cumulative Risk for 0-74 years (%)

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Figure 1: Lung Cancer: Age-standardised incidence rates by sex and region, 2020



1.2. Age-specific incidence rates

Table 2: Lung Cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2020

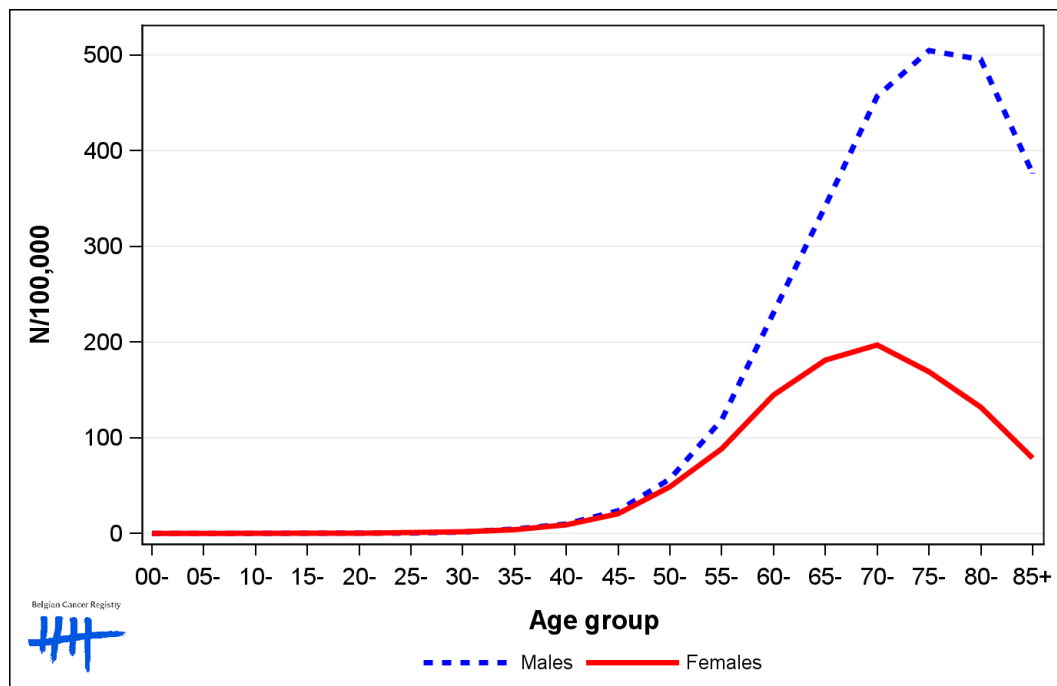
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	0.0	0.0	0.0	0.0	0.0	0.5	1.6	3.7	10.8	22.9	51.9	113.8	208.0	335.9	443.6	487.4	478.6	347.0	98.3	68.4	45.8
Females	0.0	0.0	0.0	0.3	0.6	0.3	1.6	4.5	9.0	20.3	44.6	82.5	155.3	202.7	213.4	186.0	149.2	73.3	56.8	38.9	27.3

CR=Crude (all ages) Rate (N/100,000 person-years)

ESR (1976)=Age-Standardised Rate, using the European Standard Population (N/100,000 person-years)

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)

Figure 2: Lung Cancer: Age-specific incidence rates by sex, 2016-2020



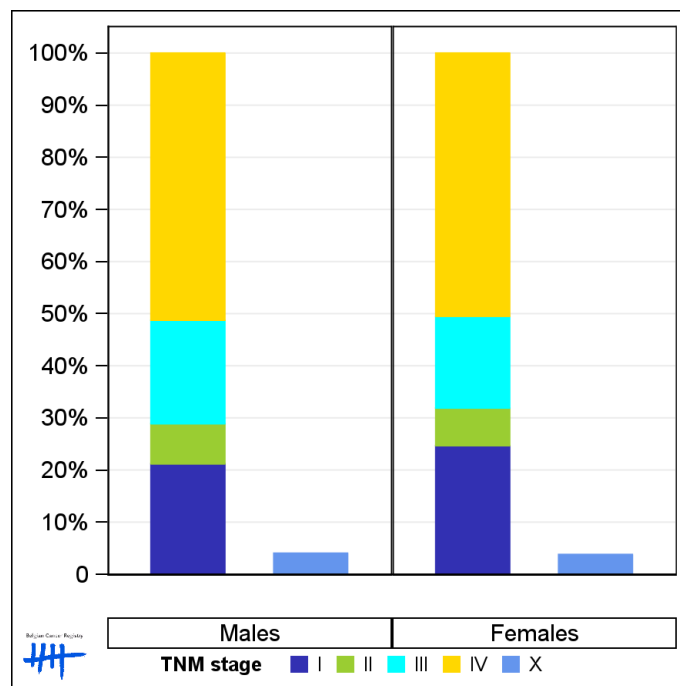
1.3. Combined stage

Table 3: Lung Cancer: Distribution of combined stage by sex, Belgium 2020

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	1,129	410	1,056	2,729	224	15	5,563
%	20.3	7.4	19.0	49.1	4.0	0.3	100
Females							
N	783	229	559	1,602	125	13	3,311
%	23.6	6.9	16.9	48.4	3.8	0.4	100

Staging according to the TNM 8th edition (Ref: Brierley JD, Gospodarowicz MK, Wittekind Ch. TNM classification of malignant tumours, UICC 8th edition)
 Combined TNM stage : compilation of pathological (pTNM) and clinical (cTNM) stage. pTNM prevails over cTNM, except when cTNM stage is IV
 Stage X: diagnoses with an unknown stage
 Stage NA: diagnoses with a histological diagnosis where no stage can be evaluated (Not Applicable)

Figure 3: Lung Cancer: Bar chart of known combined stage by sex, Belgium 2020



1.4. Trends in incidence

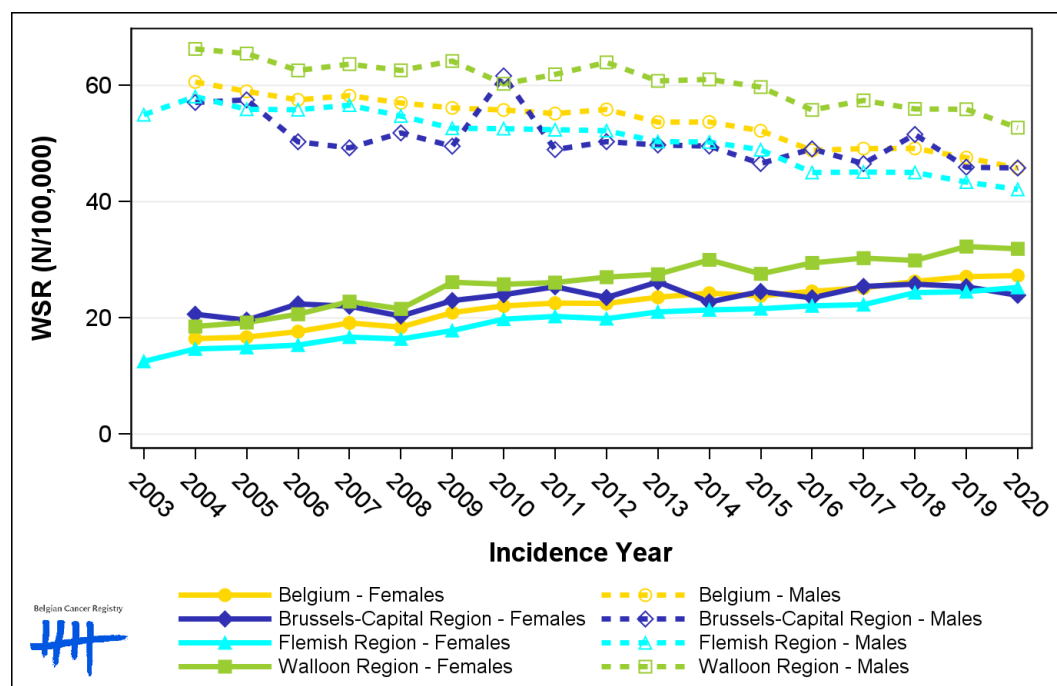
Table 4: Lung Cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	AAPC	95% CI
Belgium	57.5	58.3	57.0	56.1	55.8	55.2	55.9	53.7	53.7	52.2	48.8	49.1	49.2	47.6	45.8	-1.6	[-1.8; -1.4]
Brussels-Capital Region	50.3	49.3	51.8	49.5	61.7	49.0	50.3	49.8	49.6	46.6	49.1	46.6	51.6	45.9	45.8	-0.8	[-1.6; 0.1]
Flemish Region	55.8	56.6	54.8	52.6	52.6	52.4	52.2	50.3	50.3	48.9	45.0	45.1	45.0	43.4	42.1	-2.1	[-2.3; -1.8]
Walloon Region	62.6	63.7	62.6	64.2	60.3	61.9	64.0	60.8	61.1	59.7	55.8	57.4	56.0	55.9	52.7	-1.1	[-1.4; -0.9]

Females	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	AAPC	95% CI
Belgium	17.7	19.1	18.4	20.9	22.1	22.6	22.5	23.6	24.3	23.8	24.6	25.2	26.3	27.1	27.3	3.2	[2.8; 3.5]
Brussels-Capital Region	22.4	22.0	20.3	23.0	24.0	25.4	23.5	26.2	22.7	24.6	23.5	25.4	25.8	25.4	23.9	1.0	[0.3; 1.7]
Flemish Region	15.3	16.7	16.4	17.8	19.8	20.3	19.9	21.0	21.4	21.6	22.1	22.3	24.4	24.5	25.3	3.5	[3.1; 3.9]
Walloon Region	20.6	22.8	21.6	26.1	25.8	26.1	27.0	27.5	30.0	27.6	29.5	30.3	29.9	32.3	31.9	3.3	[2.7; 3.8]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
AAPC = Average Annual Percentage Change over the 2006-2020 period

Figure 4: Lung Cancer: Age-standardised incidence rates (WSR) by incidence year, sex and region



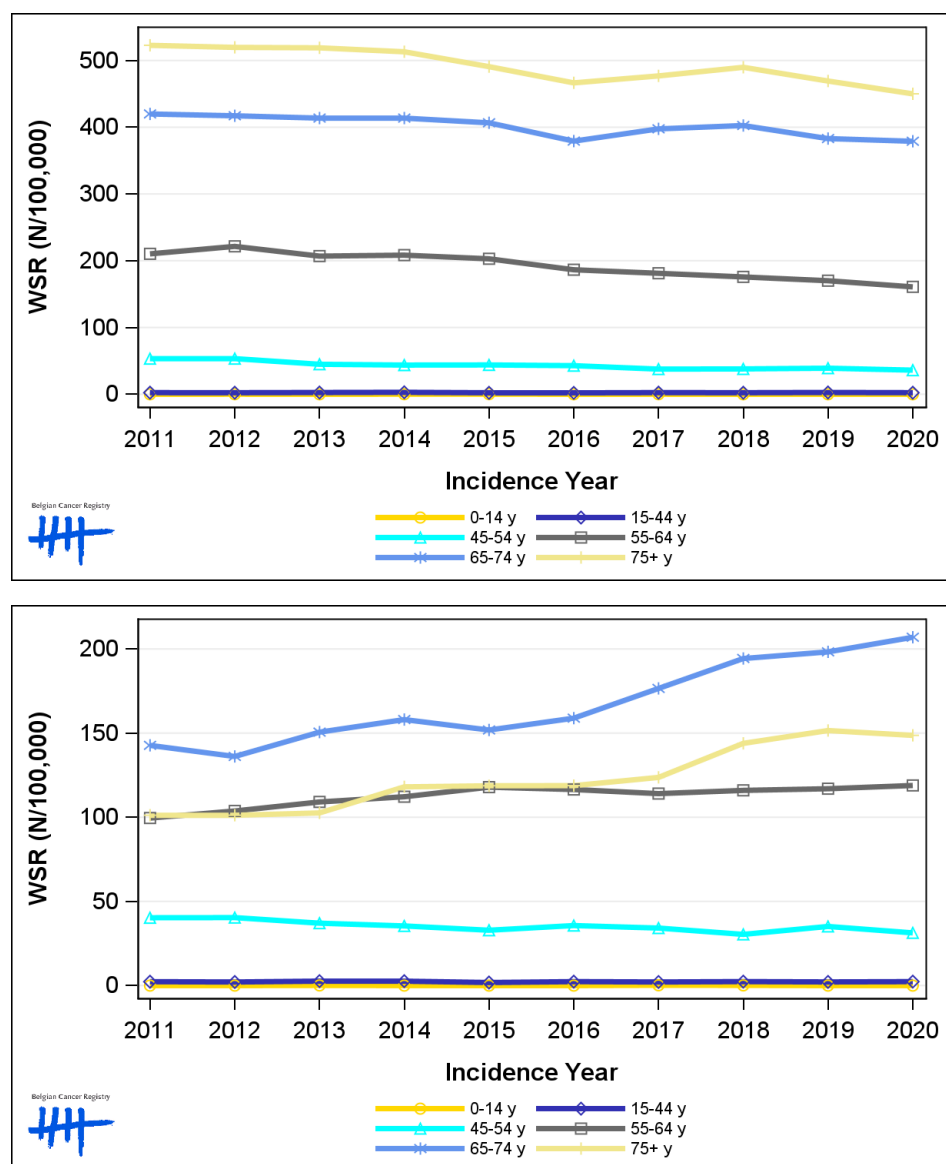
1.5. Incidence by broad age groups

Table 5: Lung Cancer: Number of new diagnoses and age-standardised incidence rates (WSR) by broad age groups and incidence year by sex, Belgium

	N										WSR									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Males																				
All ages	5,659	5,827	5,730	5,809	5,744	5,471	5,629	5,765	5,651	5,563	55.2	55.9	53.7	53.7	52.2	48.8	49.1	49.2	47.6	45.8
0-14 y	0	1	0	1	2	0	1	0	0	0	0.0	<0.1	0.0	0.1	0.2	0.0	<0.1	0.0	0.0	0.0
15-44 y	64	62	70	76	59	55	65	60	68	62	2.4	2.3	2.6	2.9	2.2	2.1	2.5	2.3	2.7	2.4
45-54 y	443	449	380	372	375	368	320	319	325	297	53.3	53.4	44.9	43.7	43.9	42.9	37.7	38.0	39.1	36.1
55-64 y	1,396	1,475	1,393	1,414	1,390	1,297	1,283	1,264	1,241	1,198	210.3	221.5	207.0	208.4	202.9	186.5	181.2	175.8	170.1	160.9
65-74 y	1,850	1,898	1,921	1,966	1,982	1,907	2,085	2,184	2,133	2,159	419.9	417.2	413.7	413.7	406.6	379.2	397.6	402.6	383.0	379.0
75+ y	1,906	1,942	1,966	1,980	1,936	1,844	1,875	1,938	1,884	1,847	522.7	519.7	519.0	513.1	490.8	466.5	476.9	489.8	469.2	450.1
Females																				
All ages	2,346	2,368	2,503	2,671	2,670	2,753	2,881	3,112	3,259	3,311	22.6	22.5	23.6	24.3	23.8	24.6	25.2	26.3	27.1	27.3
0-14 y	0	0	1	0	0	0	2	1	0	0	0.0	0.0	<0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.0
15-44 y	62	54	68	68	47	58	56	60	56	60	2.3	2.1	2.6	2.6	1.8	2.4	2.2	2.4	2.2	2.3
45-54 y	331	333	309	295	273	295	284	251	289	251	40.3	40.4	37.1	35.4	32.9	35.7	34.2	30.4	35.1	31.3
55-64 y	676	712	754	780	833	834	830	853	876	899	99.5	103.8	109.1	112.2	117.9	116.5	114.1	116.0	117.0	118.9
65-74 y	695	686	779	831	814	879	1,008	1,142	1,191	1,268	142.7	136.1	150.6	158.1	151.9	158.9	176.6	194.3	198.3	207.0
75+ y	582	583	592	697	703	687	701	805	847	833	101.2	101.2	102.6	118.1	118.7	118.8	123.7	143.9	151.5	148.7

N=Number of invasive tumours
WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)

Figure 5: Lung Cancer: Age-standardised incidence rates (WSR) versus incidence year by broad age groups for males (top) and females (bottom), Belgium



2. Relative survival

Table 6: Lung Cancer: 5-year relative survival proportion by sex, age group and region, Belgium 2016-2020

	5-year relative survival 2016-2020 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	27,726	22.8	[22.1, 23.5]	15,115	31.4	[30.4, 32.4]
Age group						
15-49 years	763	32.7	[28.5, 36.9]	674	47.1	[42.7, 51.5]
50-64 years	7,353	28.3	[27.0, 29.6]	5,200	36.1	[34.5, 37.7]
65+ years	19,623	20.1	[19.3, 21.0]	9,248	27.2	[25.9, 28.5]
Region						
Brussels-Capital Region	1,946	22.7	[20.1, 25.3]	1,189	31.7	[28.2, 35.4]
Flemish Region	16,258	22.8	[21.9, 23.7]	8,358	30.1	[28.8, 31.5]
Walloon Region	9,525	22.9	[21.7, 24.1]	5,568	33.2	[31.6, 34.8]

Figure 6: Lung Cancer: relative survival proportion by sex, Belgium 2016-2020

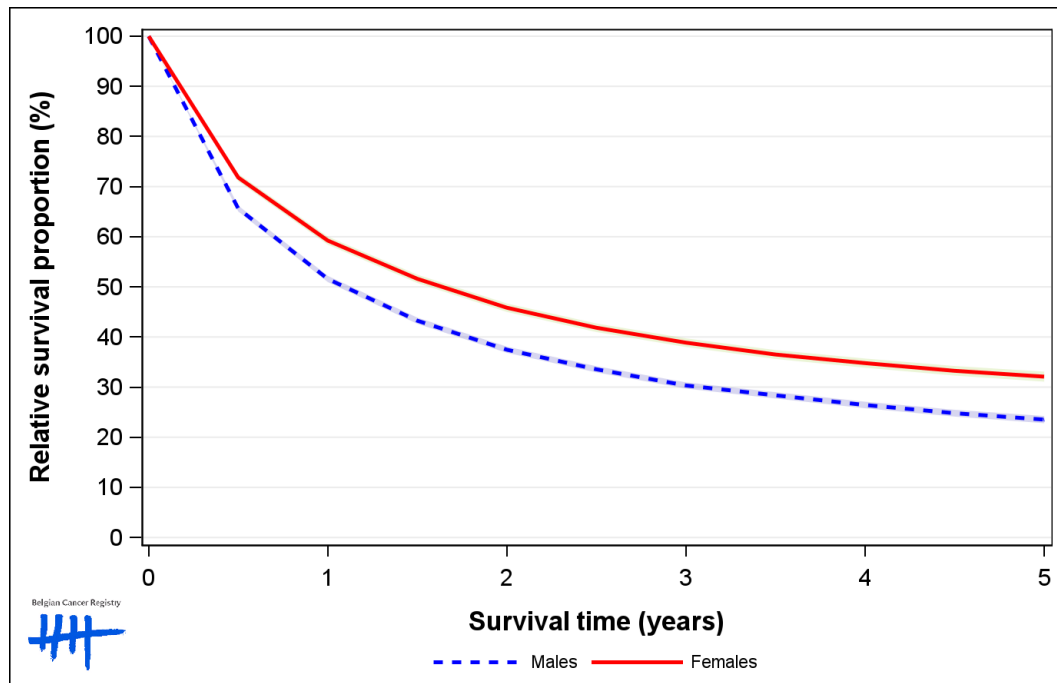


Figure 7: Lung Cancer: relative survival proportion by age group in males, Belgium 2016-2020

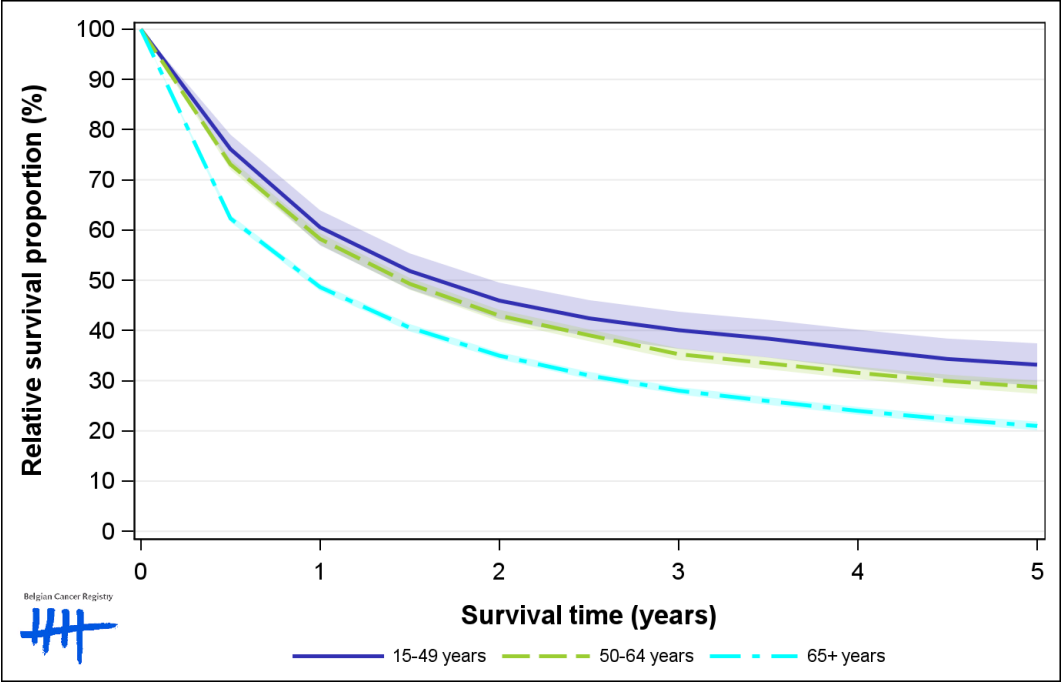


Figure 8: Lung Cancer: relative survival proportion by age group in females, Belgium 2016-2020

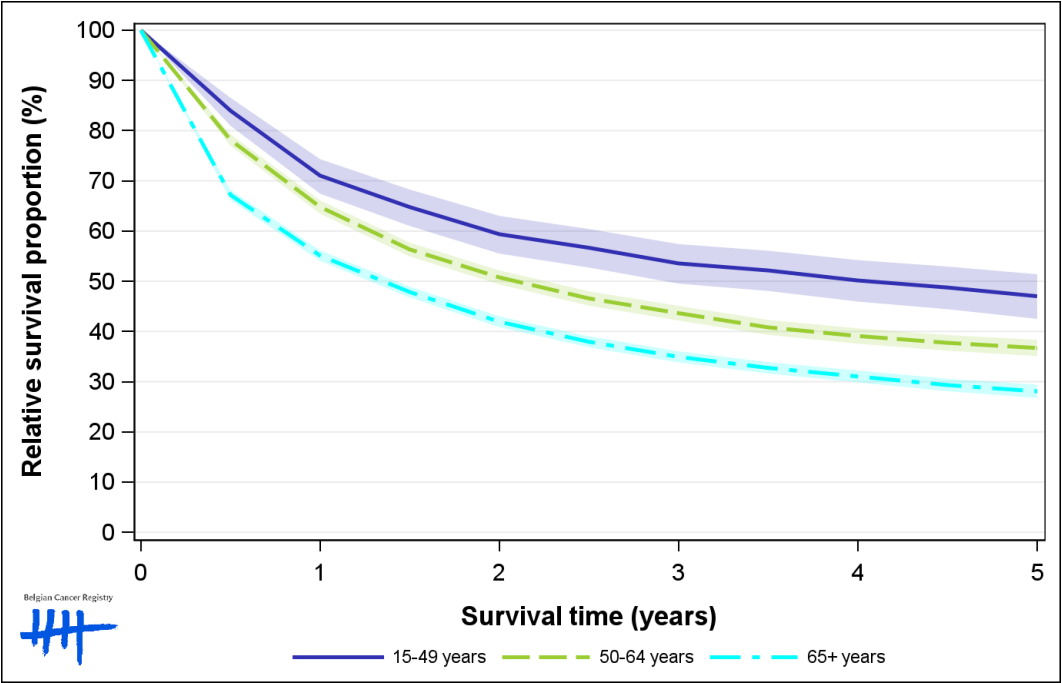


Figure 9: Lung Cancer: relative survival proportion by region in males, Belgium 2016-2020

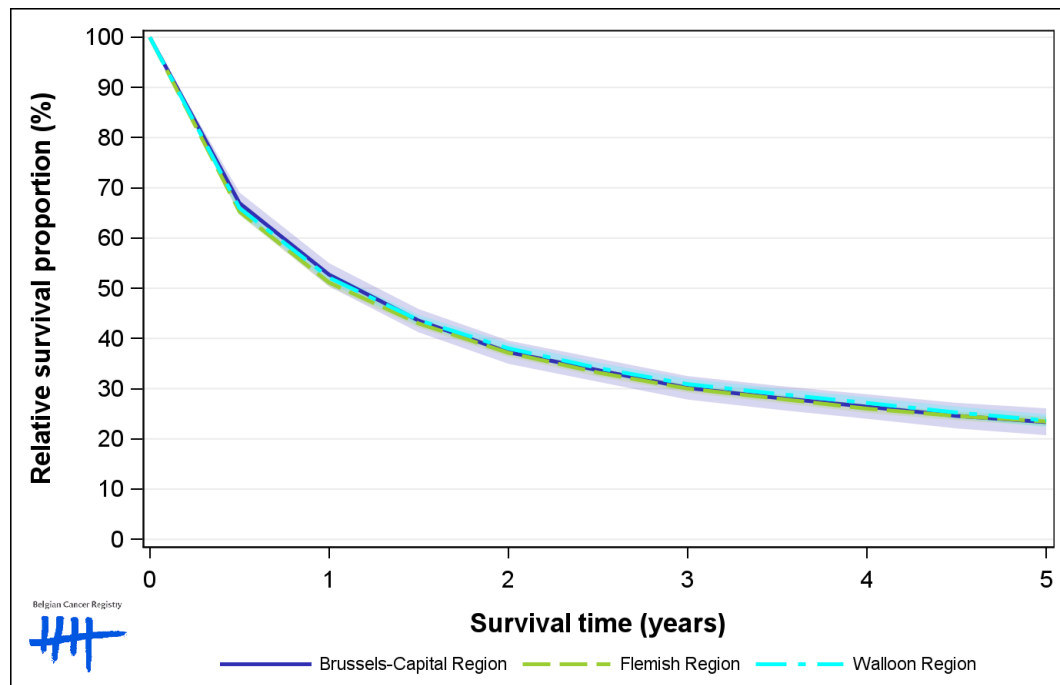


Figure 10: Lung Cancer: relative survival proportion by region in females, Belgium 2016-2020

