

Belgian Cancer Registry



Cancer Fact Sheet **Lung Cancer**

ICD10 : C34

Belgium 2021

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, 2021

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	70.3	5,675	100.0	68.5	45.7	5.65
Brussels-Capital Region	67.2	405	67.6	69.4	47.1	5.82
Flemish Region	71.5	3,347	101.6	63.4	41.9	5.21
Walloon Region	68.9	1,923	107.8	77.6	52.4	6.43

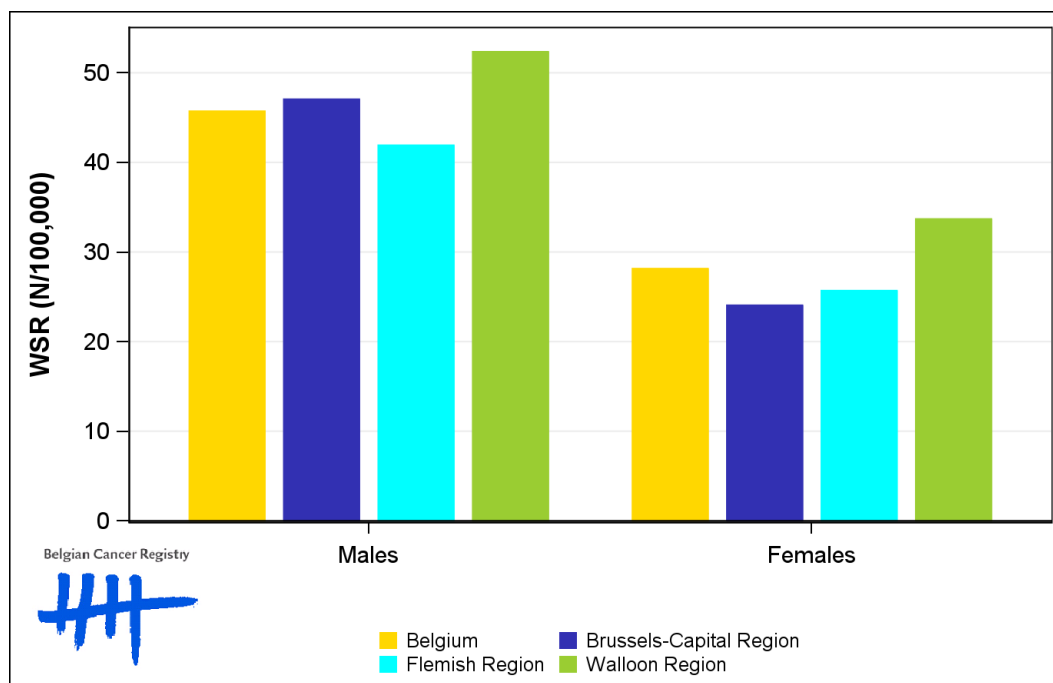
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	68.3	3,517	60.2	40.4	28.1	3.71
Brussels-Capital Region	68.4	244	39.3	34.8	24.1	3.11
Flemish Region	68.9	1,961	58.4	37.0	25.7	3.41
Walloon Region	67.2	1,312	70.4	48.1	33.7	4.38

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, 2021



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 2021

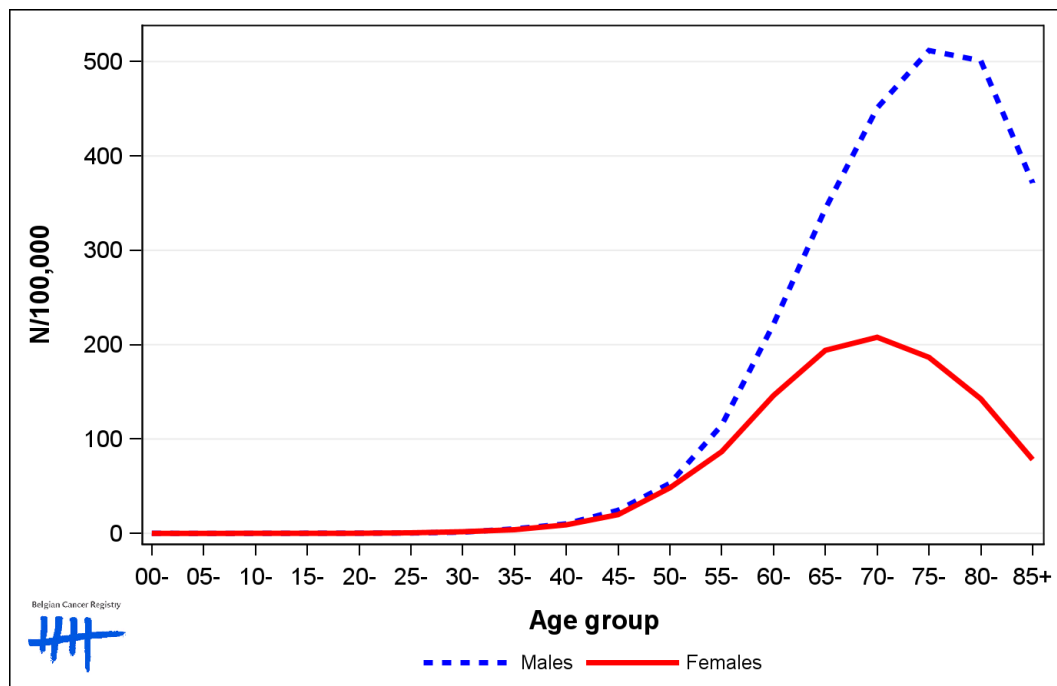
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	0.7	0.0	0.0	0.0	0.3	0.3	1.6	5.6	9.3	26.0	48.5	105.3	203.5	335.5	427.1	524.7	509.7	371.3	100.0	68.5	45.7
Females	0.0	0.0	0.0	0.3	0.0	0.5	2.1	3.8	8.6	20.9	47.4	82.2	148.0	208.7	232.5	227.4	160.0	76.1	60.2	40.4	28.1

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, 2017-2021



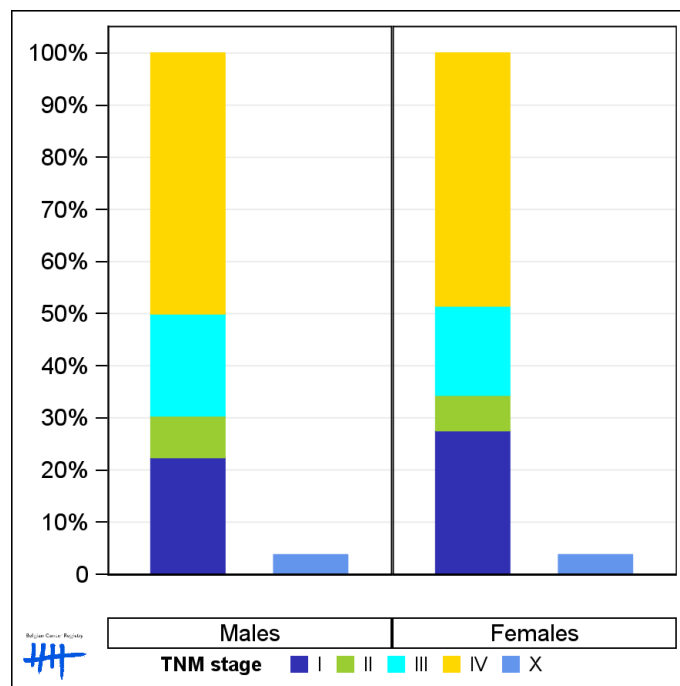
1.3. Combined stage

Table 3: Lung Cancer: Distribution of combined stage by sex, Belgium 2021

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	1,223	436	1,069	2,727	211	9	5,675
%	21.6	7.7	18.8	48.1	3.7	0.2	100
Females							
N	933	230	579	1,640	131	4	3,517
%	26.5	6.5	16.5	46.6	3.7	0.1	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 2021



1.4. Trends in incidence

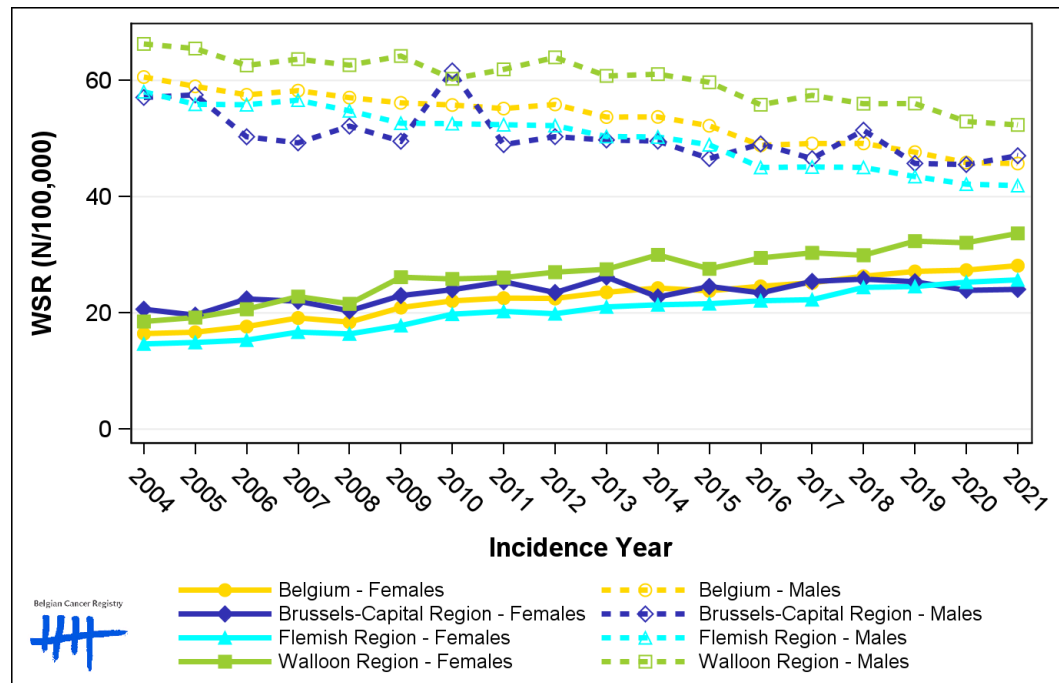
Table 4: Lung Cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC	95% CI
Belgium	58.3	57.1	56.2	55.8	55.2	55.9	53.7	53.7	52.2	48.9	49.2	49.2	47.7	45.9	45.7	-1.7	[-1.9; -1.5]
Brussels-Capital Region	49.3	52.2	49.5	61.7	49.0	50.3	49.8	49.6	46.6	49.1	46.6	51.4	45.7	45.5	47.1	-0.9	[-1.7; -0.1]
Flemish Region	56.6	54.8	52.7	52.6	52.4	52.2	50.4	50.3	48.9	45.0	45.1	45.0	43.5	42.2	41.9	-2.1	[-2.4; -1.9]
Walloon Region	63.7	62.6	64.2	60.3	61.9	64.0	60.8	61.1	59.7	55.8	57.4	56.0	56.0	52.9	52.4	-1.3	[-1.6; -1.0]

Females	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC	95% CI
Belgium	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	27.4	28.1	3.0	[2.6; 3.4]
Brussels-Capital Region	22.0	20.4	23.0	24.0	25.4	23.5	26.2	22.7	24.6	23.5	25.4	25.8	25.4	23.9	24.1	0.9	[0.2; 1.6]
Flemish Region	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	25.7	3.3	[2.9; 3.7]
Walloon Region	22.8	21.6	26.1	25.8	26.1	27.0	27.5	30.0	27.6	29.5	30.3	29.9	32.4	32.1	33.7	2.7	[2.1; 3.2]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
 AAPC = Average Annual Percentage Change over the 2007-2021 period

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



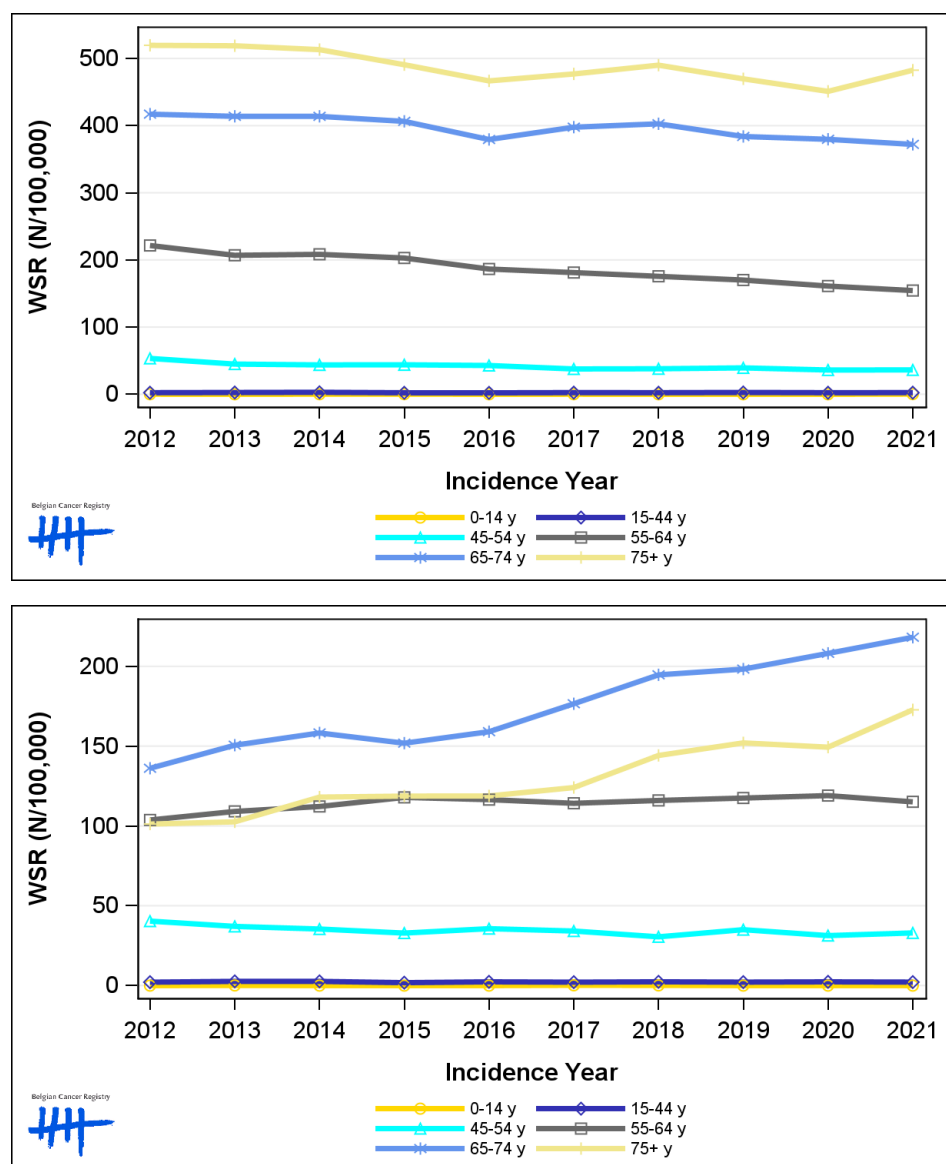
1.5. Incidence by broad age groups

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									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Males																				
All ages	5,827	5,731	5,811	5,743	5,473	5,631	5,766	5,661	5,573	5,675	55.9	53.7	53.7	52.2	48.9	49.2	49.2	47.7	45.9	45.7
0-14 y	1	0	1	2	0	1	0	0	0	2	<0.1	0.0	0.1	0.2	0.0	<0.1	0.0	0.0	0.0	0.3
15-44 y	62	70	76	59	55	65	60	68	61	64	2.3	2.6	2.9	2.2	2.1	2.5	2.3	2.7	2.3	2.4
45-54 y	449	380	372	375	368	320	319	327	297	292	53.4	44.9	43.7	43.9	42.9	37.7	38.0	39.3	36.1	36.2
55-64 y	1,475	1,393	1,414	1,390	1,297	1,283	1,263	1,241	1,200	1,164	221.5	207.0	208.4	202.9	186.5	181.2	175.6	170.1	161.1	154.4
65-74 y	1,898	1,922	1,967	1,981	1,908	2,086	2,185	2,138	2,163	2,160	417.2	413.9	413.9	406.4	379.4	397.7	402.8	383.9	379.7	372.1
75+ y	1,942	1,966	1,981	1,936	1,845	1,876	1,939	1,887	1,852	1,993	519.7	519.0	513.3	490.8	466.7	477.1	490.1	469.8	451.1	482.6
Females																				
All ages	2,368	2,503	2,672	2,670	2,754	2,884	3,117	3,265	3,323	3,517	22.5	23.6	24.3	23.8	24.6	25.2	26.3	27.1	27.4	28.1
0-14 y	0	1	0	0	0	2	1	0	0	0	0.0	<0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0
15-44 y	54	68	68	47	58	56	60	56	60	57	2.1	2.6	2.6	1.8	2.4	2.2	2.4	2.2	2.3	2.2
45-54 y	333	309	295	273	295	284	252	288	251	262	40.4	37.1	35.4	32.9	35.7	34.2	30.6	35.0	31.3	33.0
55-64 y	712	754	780	833	834	831	853	880	900	879	103.8	109.1	112.2	117.9	116.5	114.2	116.0	117.5	119.0	115.1
65-74 y	686	779	832	814	880	1,008	1,144	1,191	1,275	1,370	136.1	150.6	158.3	151.9	159.1	176.6	194.7	198.3	208.1	218.2
75+ y	583	592	697	703	687	703	807	850	837	949	101.2	102.6	118.1	118.7	118.8	124.1	144.2	152.1	149.4	172.7

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 2017-2021

	5-year relative survival 2017-2021 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	27,938	23.6	[22.9, 24.3]	15,859	32.1	[31.1, 33.0]
Age group						
15-49 years	784	35.0	[30.8, 39.3]	657	46.1	[41.3, 50.7]
50-64 years	7,132	29.1	[27.8, 30.4]	5,227	37.5	[35.9, 39.2]
65+ years	20,033	21.0	[20.2, 21.8]	9,986	28.0	[26.8, 29.3]
Region						
Brussels-Capital Region	1,944	22.9	[20.3, 25.6]	1,203	35.5	[32.0, 39.0]
Flemish Region	16,399	23.7	[22.8, 24.6]	8,807	31.6	[30.3, 32.9]
Walloon Region	9,596	23.6	[22.4, 24.8]	5,850	32.0	[30.4, 33.6]

Figure 6: Lung Cancer: relative survival proportion by sex, Belgium 2017-2021

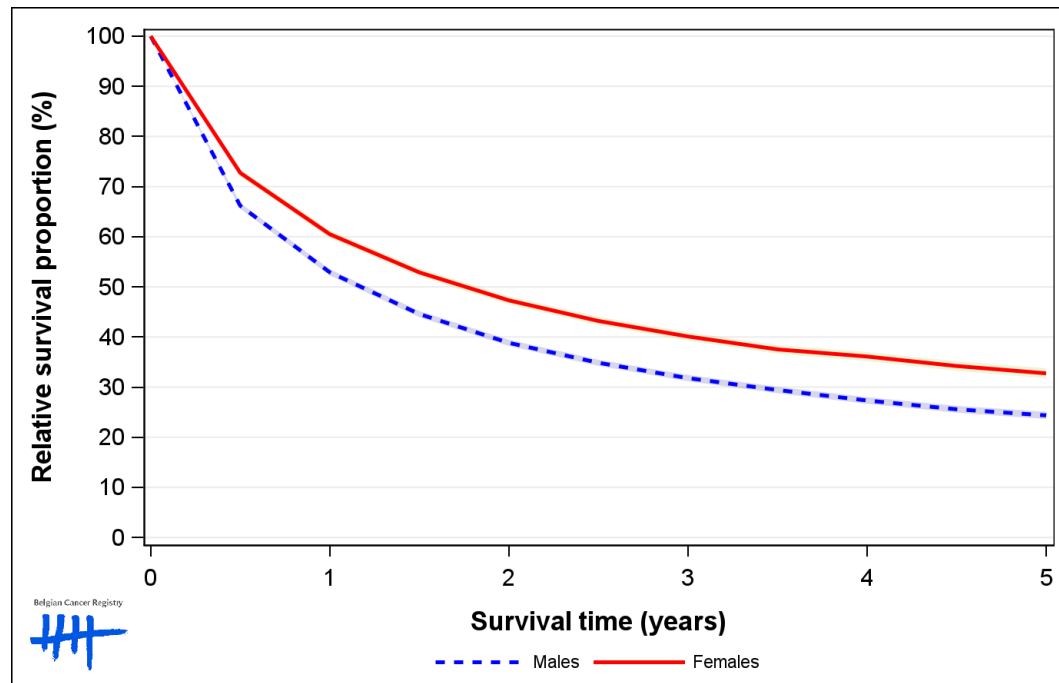


Figure 7: Lung Cancer: relative survival proportion by age group in males, Belgium 2017-2021

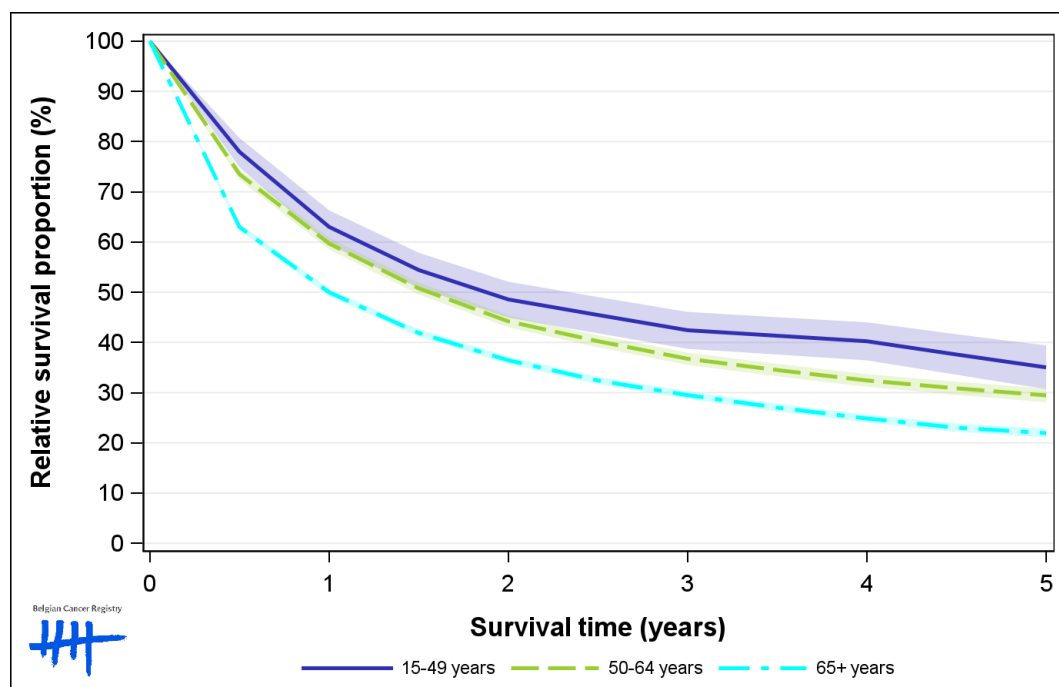


Figure 8: Lung Cancer: relative survival proportion by age group in females, Belgium 2017-2021

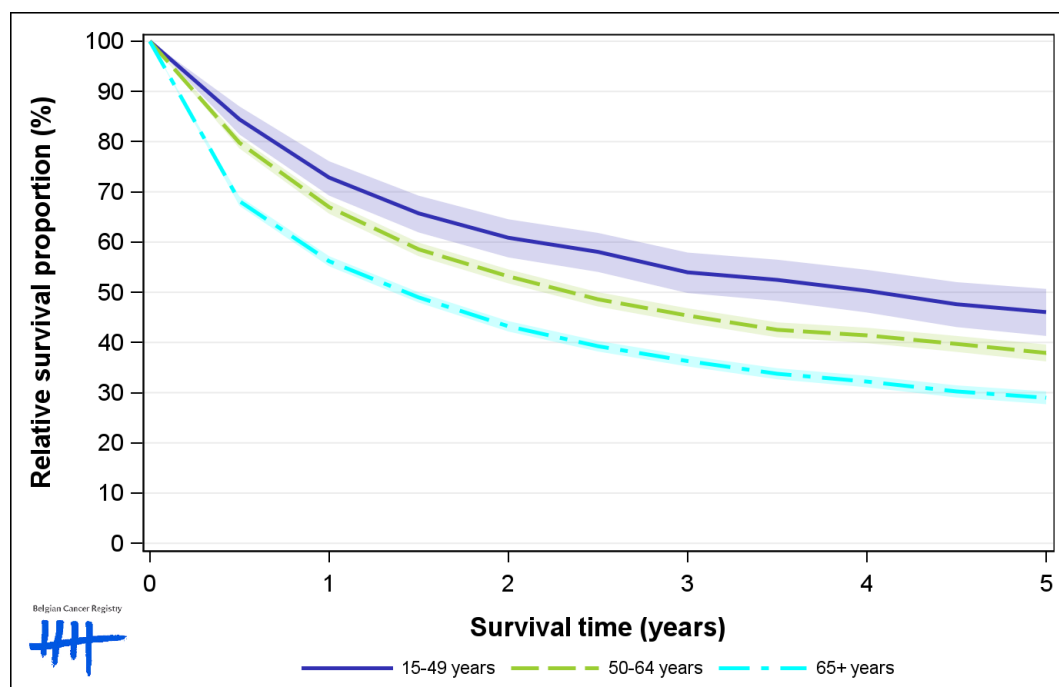


Figure 9: Lung Cancer: relative survival proportion by region in males, Belgium 2017-2021

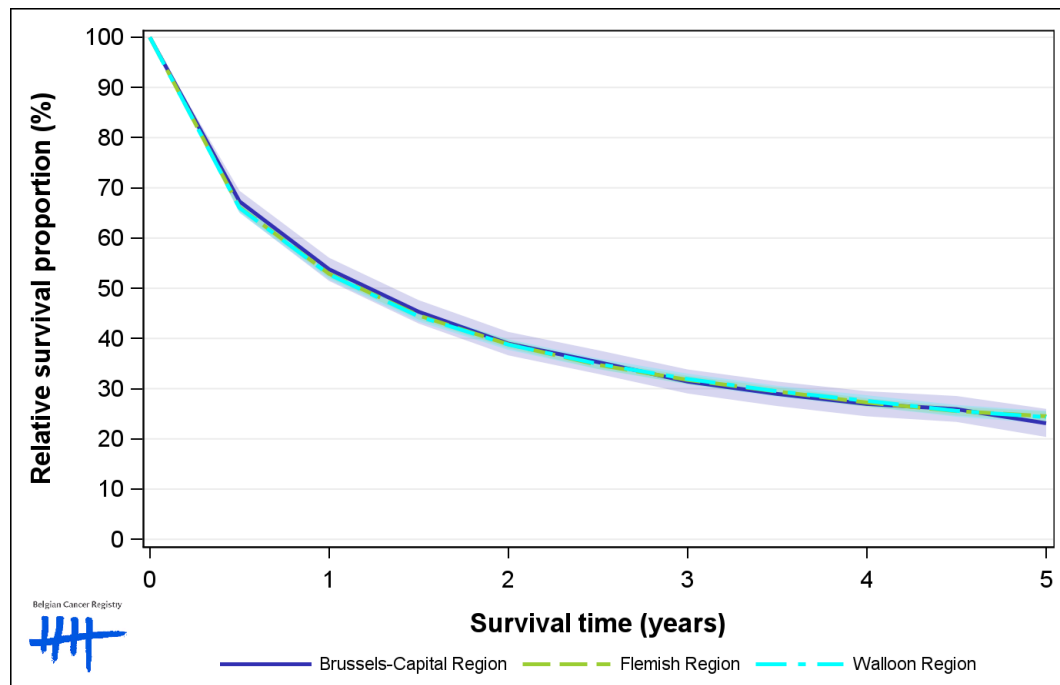


Figure 10: Lung Cancer: relative survival proportion by region in females, Belgium 2017-2021

