

Belgian Cancer Registry



Cancer Fact Sheet **Lung Cancer**

ICD10 : C34

Belgium 2017

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, 2017

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	69.7	5,599	100.6	72.9	48.9	6.18
Brussels-Capital Region	67.6	377	64.7	68.3	46.2	5.81
Flemish Region	70.7	3,257	101.1	67.3	44.9	5.70
Walloon Region	68.6	1,965	111.4	84.6	57.1	7.17

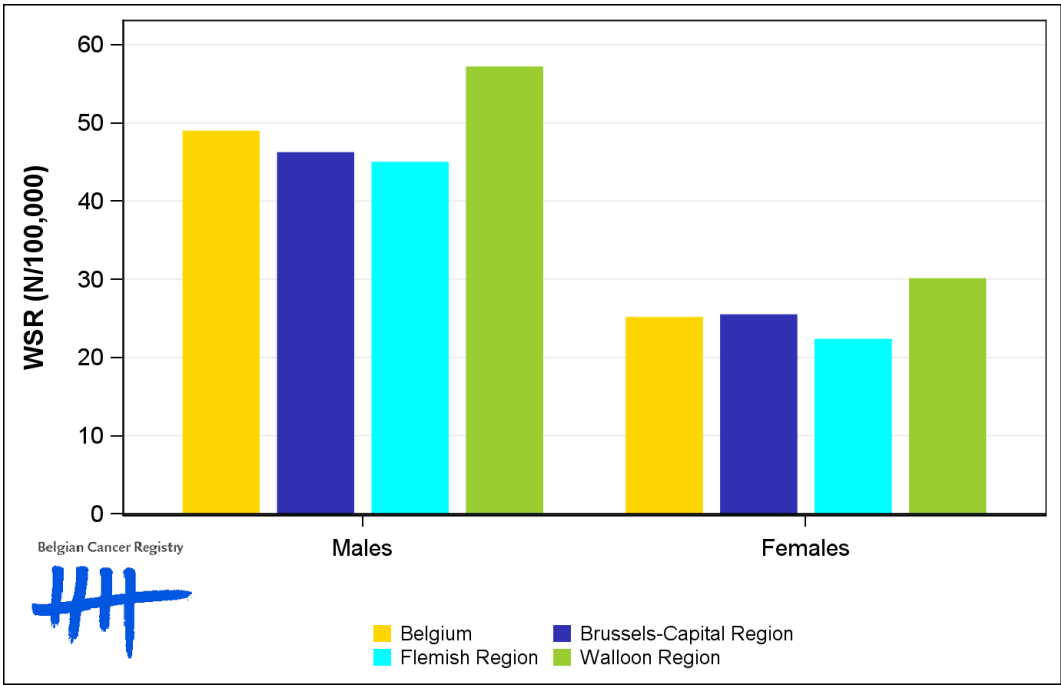
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	67.0	2,873	49.9	35.6	25.1	3.29
Brussels-Capital Region	66.4	239	39.2	36.0	25.4	3.22
Flemish Region	67.8	1,558	47.3	31.8	22.3	2.98
Walloon Region	66.1	1,076	58.2	42.4	30.0	3.86

CR=Crude (all ages) Rate (N/100,000 person-years)
ESR=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, 2017



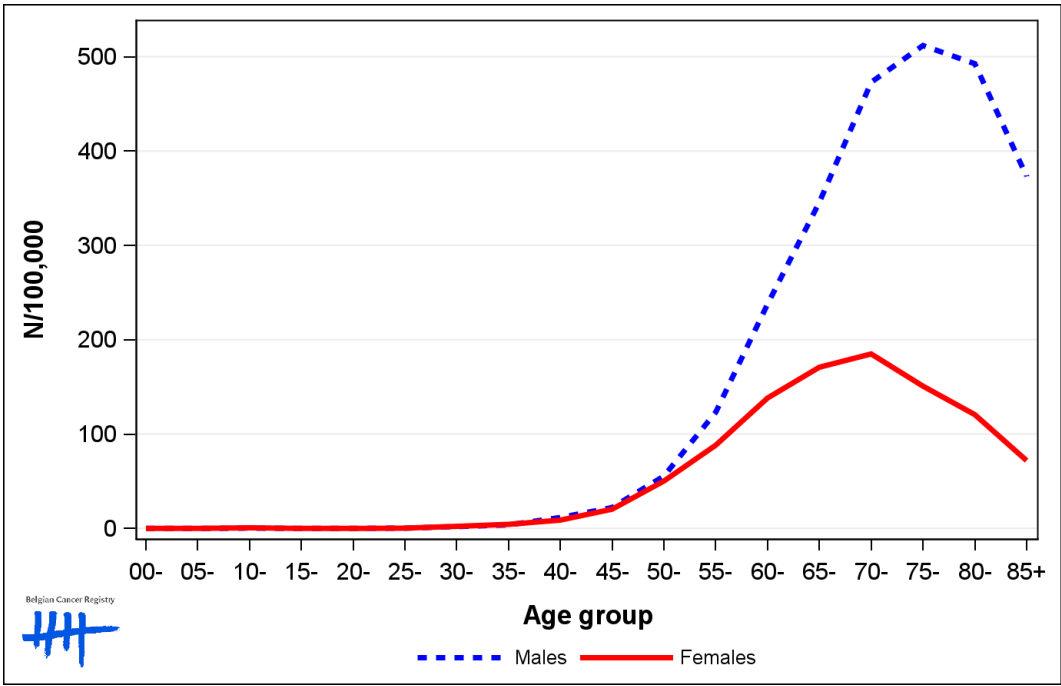
1.2. Age-specific incidence rates

Table 2: Lung Cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2017

	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	0.3	0.0	0.0	0.3	1.9	3.7	11.6	22.1	55.5	123.2	237.8	345.8	473.0	512.0	492.7	373.3	100.6	72.9	48.9
Females	0.0	0.0	0.7	0.0	0.0	0.3	2.2	4.3	8.8	20.4	50.2	88.2	138.2	170.9	185.0	150.8	120.6	71.9	49.9	35.6	25.1

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



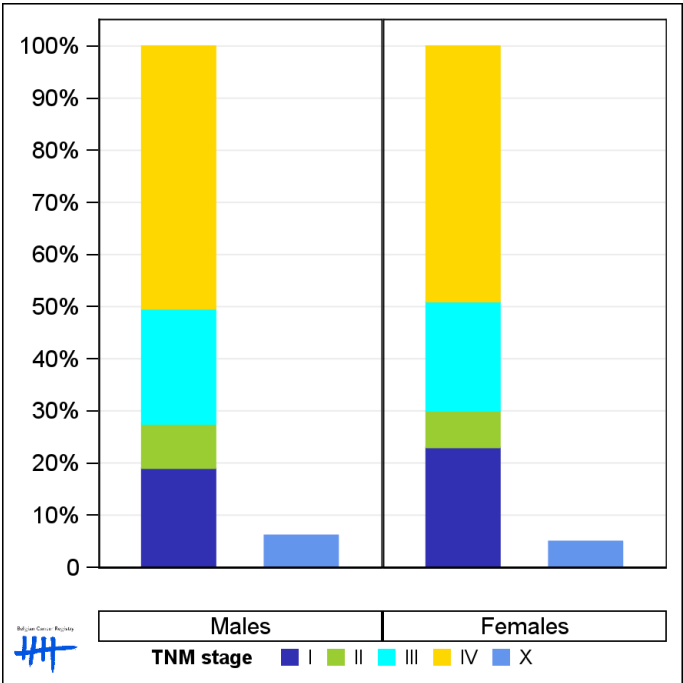
1.3. Combined stage

Table 3: Lung Cancer: Distribution of combined stage by sex, Belgium 2017

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	997	445	1,157	2,641	342	17	5,599
%	17.8	7.9	20.7	47.2	6.1	0.3	100
Females							
N	626	190	572	1,333	142	10	2,873
%	21.8	6.6	19.9	46.4	4.9	0.3	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 2017



1.4. Trends in incidence

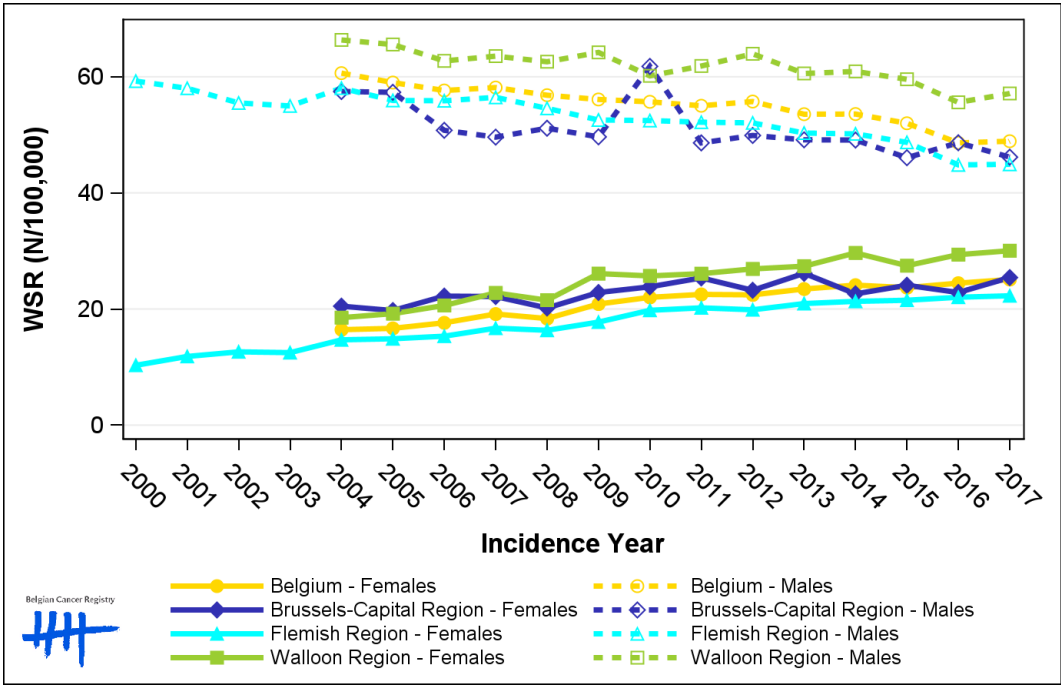
Table 4: Lung Cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	AAPC	95% CI
Belgium		60.6	59.0	57.6	58.2	56.8	56.1	55.7	55.0	55.7	53.6	53.6	52.0	48.6	48.9	-1.6	[-1.9; -1.4]
Brussels-Capital Region		57.5	57.3	50.8	49.6	51.1	49.7	61.8	48.6	49.9	49.1	49.1	46.1	48.6	46.2	-1.3	[-2.3; -0.4]
Flemish Region	55.0	58.0	55.9	55.9	56.5	54.6	52.6	52.5	52.2	52.1	50.3	50.2	48.7	44.8	44.9	-1.8	[-2.1; -1.5]
Walloon Region		66.3	65.6	62.7	63.6	62.6	64.2	60.2	61.9	64.0	60.6	60.9	59.6	55.6	57.1	-1.0	[-1.4; -0.6]

Females	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	AAPC	95% CI
Belgium		16.4	16.7	17.6	19.1	18.4	20.9	22.0	22.5	22.4	23.5	24.1	23.7	24.5	25.1	3.4	[3.0; 3.8]
Brussels-Capital Region		20.5	19.7	22.2	22.2	20.2	22.9	23.8	25.4	23.2	26.2	22.6	24.1	22.9	25.4	1.5	[0.6; 2.4]
Flemish Region	12.5	14.7	14.9	15.3	16.7	16.3	17.8	19.8	20.2	19.9	20.9	21.3	21.5	22.0	22.3	3.8	[3.4; 4.3]
Walloon Region		18.5	19.2	20.6	22.8	21.5	26.1	25.7	26.1	26.9	27.4	29.7	27.5	29.4	30.0	3.9	[3.3; 4.5]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
AAPC = Average Annual Percentage Change over the 2004-2017 period (except for the Flemish region : 2003-2017).

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



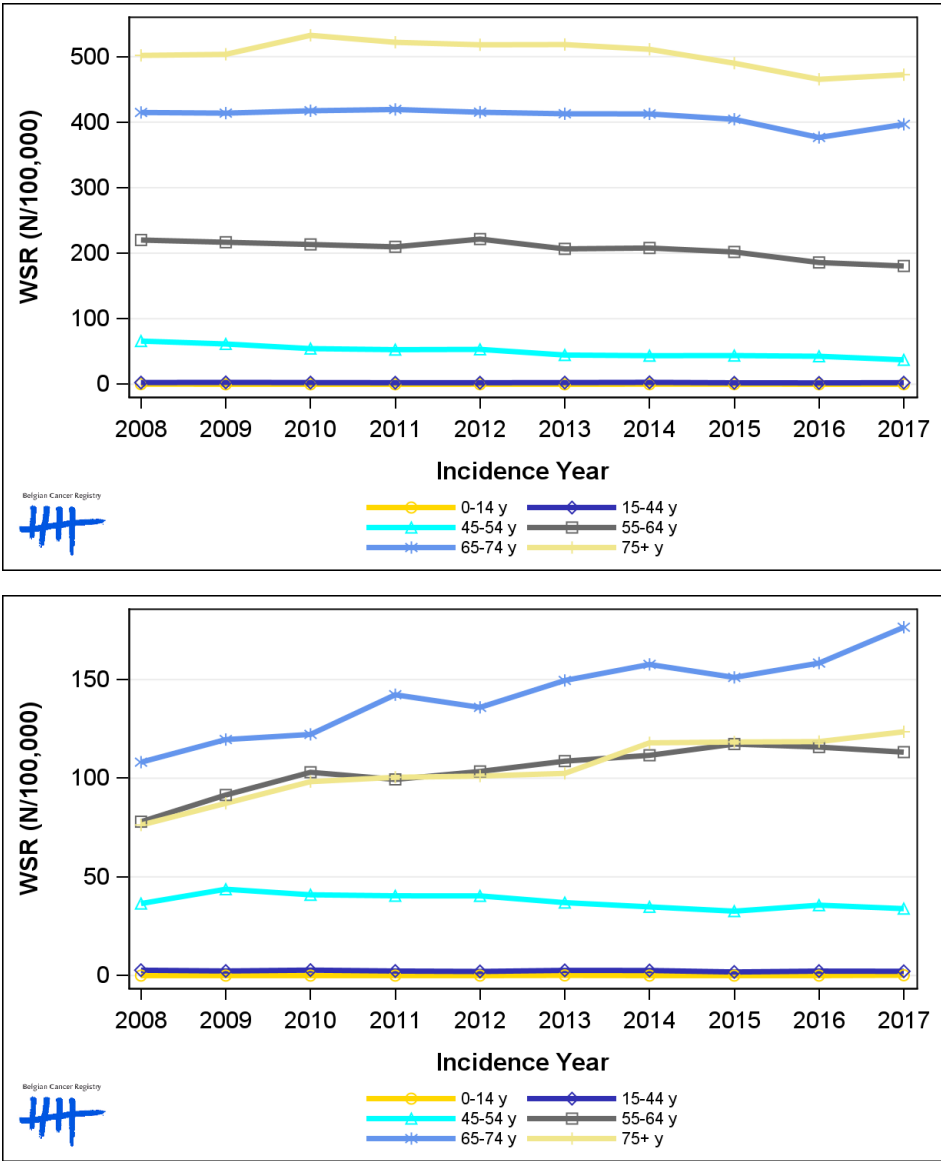
1.5. Incidence by broad age groups

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									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Males																				
All ages	5,468	5,513	5,653	5,645	5,812	5,718	5,793	5,722	5,448	5,599	56.8	56.1	55.7	55.0	55.7	53.6	53.6	52.0	48.6	48.9
0-14 y	2	0	0	0	1	0	1	2	0	1	0.2	0.0	0.0	0.0	<0.1	0.0	0.1	0.2	0.0	<0.1
15-44 y	72	77	70	63	62	69	76	59	55	65	2.6	2.9	2.6	2.4	2.3	2.6	2.9	2.2	2.1	2.5
45-54 y	521	495	446	439	448	377	371	374	367	317	65.9	61.5	54.4	52.8	53.3	44.6	43.6	43.8	42.7	37.3
55-64 y	1,357	1,375	1,381	1,392	1,475	1,391	1,411	1,383	1,292	1,278	220.1	216.7	213.4	209.7	221.6	206.6	208.0	201.9	185.8	180.5
65-74 y	1,783	1,799	1,839	1,848	1,889	1,917	1,961	1,971	1,894	2,080	414.8	413.8	417.4	419.4	415.2	412.8	412.6	404.4	376.6	396.7
75+ y	1,733	1,767	1,917	1,903	1,937	1,964	1,973	1,933	1,840	1,858	501.9	503.6	532.6	521.9	518.1	518.5	511.2	490.0	465.4	472.5
Females																				
All ages	1,810	2,074	2,241	2,340	2,364	2,493	2,658	2,658	2,742	2,873	18.4	20.9	22.0	22.5	22.4	23.5	24.1	23.7	24.5	25.1
0-14 y	0	0	0	0	0	1	0	0	0	2	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.2
15-44 y	72	62	73	62	53	68	67	47	56	57	2.7	2.3	2.8	2.3	2.1	2.6	2.6	1.8	2.3	2.2
45-54 y	285	349	330	332	333	308	290	271	295	282	36.5	43.8	40.9	40.4	40.4	37.0	34.8	32.6	35.7	33.9
55-64 y	494	596	685	675	710	751	776	829	829	824	78.0	91.5	103.0	99.4	103.4	108.7	111.6	117.3	115.8	113.2
65-74 y	529	572	596	693	685	774	829	810	876	1,008	108.1	119.6	122.2	142.3	135.9	149.6	157.7	151.1	158.4	176.5
75+ y	430	495	557	578	583	591	696	701	686	700	76.3	87.3	98.3	100.5	101.1	102.5	118.0	118.4	118.6	123.6

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 2013-2017

	5-year relative survival 2013-2017 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	27,976	18.2	[17.7, 18.9]	13,280	27.0	[26.1, 28.0]
Age group						
15-49 years	780	25.1	[21.7, 28.7]	713	38.8	[34.7, 43.0]
50-64 years	7,995	22.8	[21.7, 23.9]	4,976	31.0	[29.5, 32.6]
65+ years	19,208	15.9	[15.2, 16.6]	7,596	23.0	[21.8, 24.4]
Region						
Brussels-Capital Region	1,883	18.8	[16.5, 21.2]	1,127	25.5	[22.3, 29.0]
Flemish Region	16,534	18.2	[17.5, 19.0]	7,205	27.0	[25.8, 28.4]
Walloon Region	9,559	18.2	[17.2, 19.2]	4,948	27.3	[25.8, 29.0]

Figure 6: Lung Cancer: relative survival proportion by sex, Belgium 2013-2017

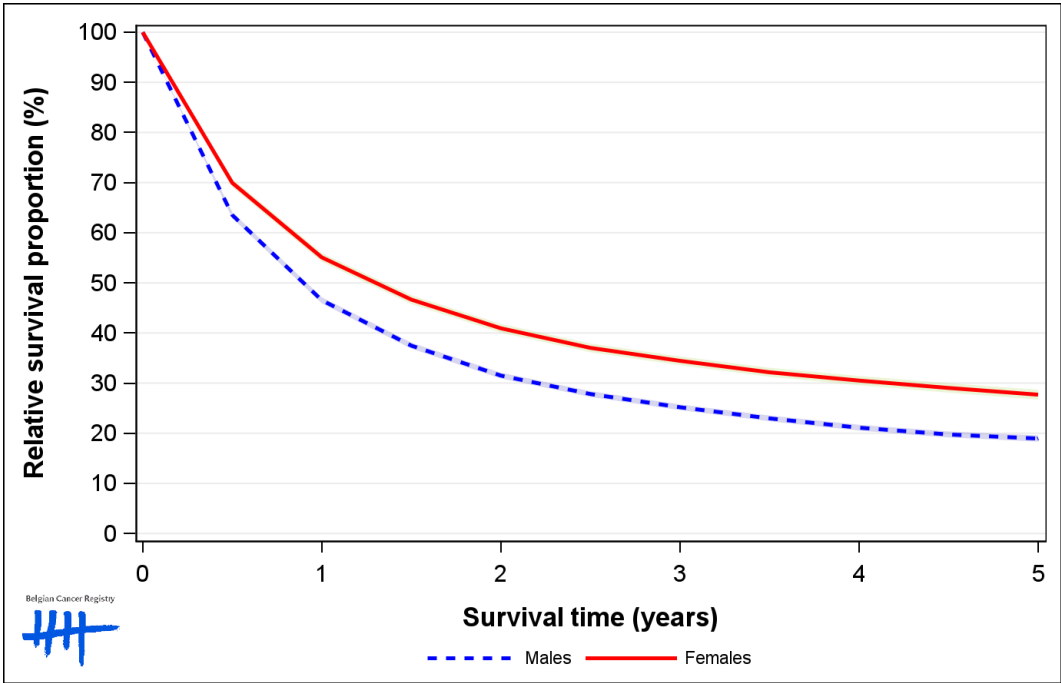


Figure 7: Lung Cancer: relative survival proportion by age group in males, Belgium 2013-2017

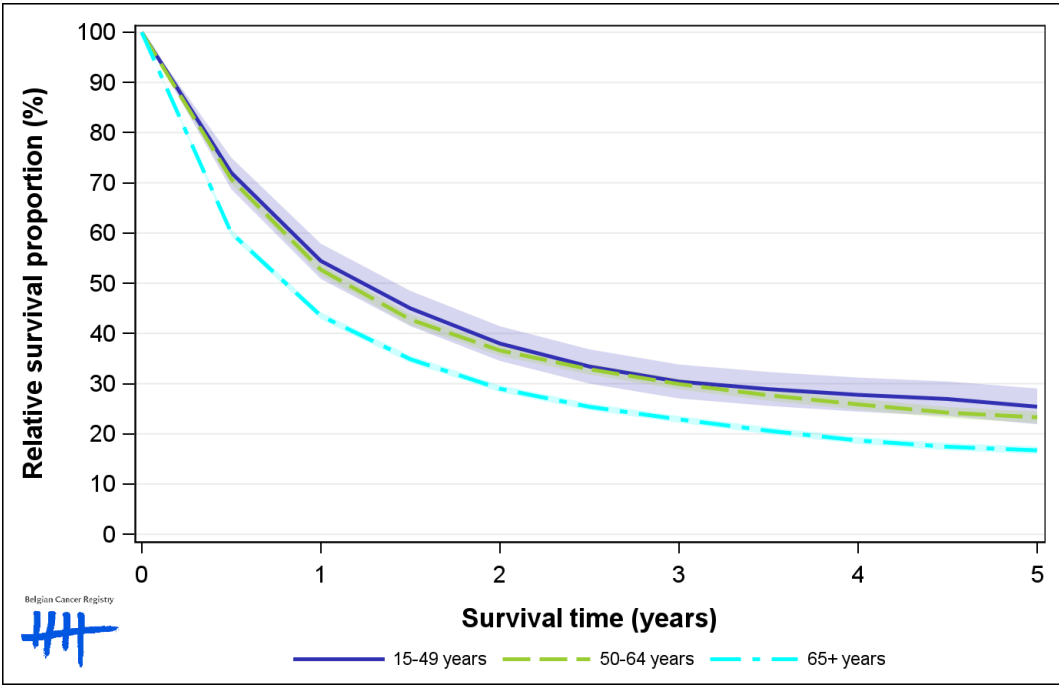


Figure 8: Lung Cancer: relative survival proportion by age group in females, Belgium 2013-2017

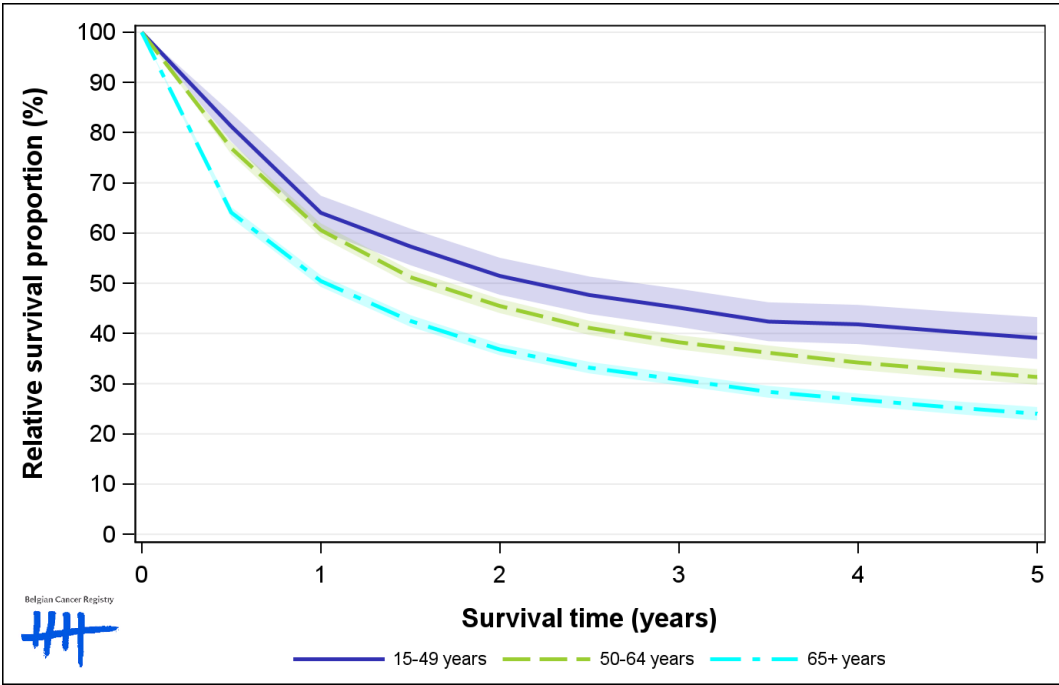


Figure 9: Lung Cancer: relative survival proportion by region in males, Belgium 2013-2017

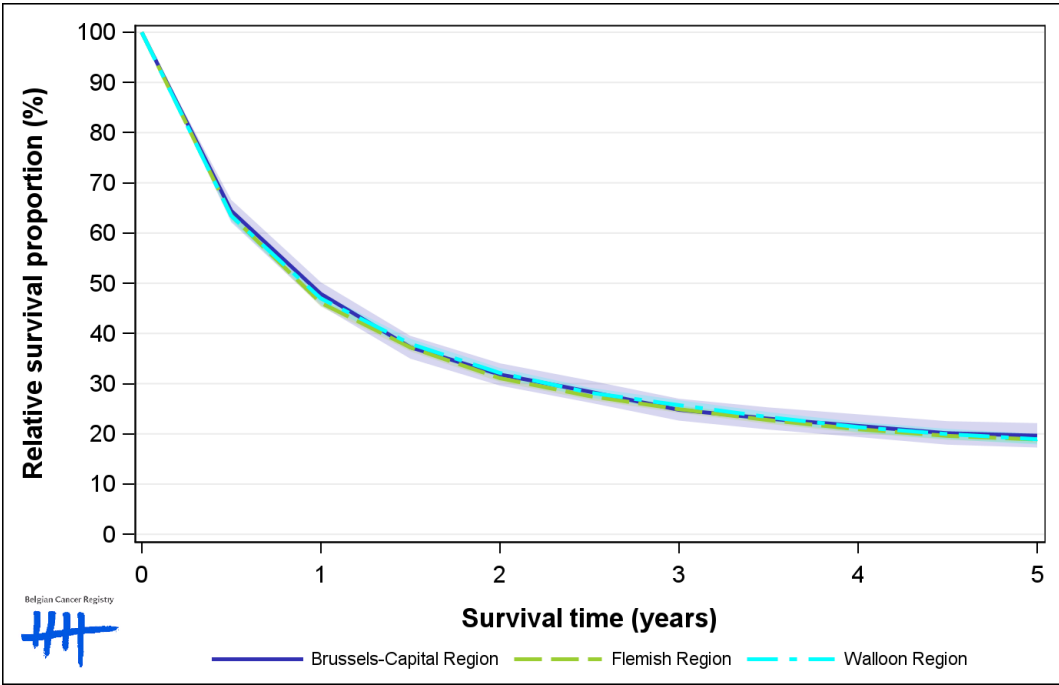


Figure 10: Lung Cancer: relative survival proportion by region in females, Belgium 2013-2017

