

Belgian Cancer Registry



Cancer Fact Sheet **Liver Cancer**

ICD10 : C22

Belgium 2016

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Liver 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, 2016

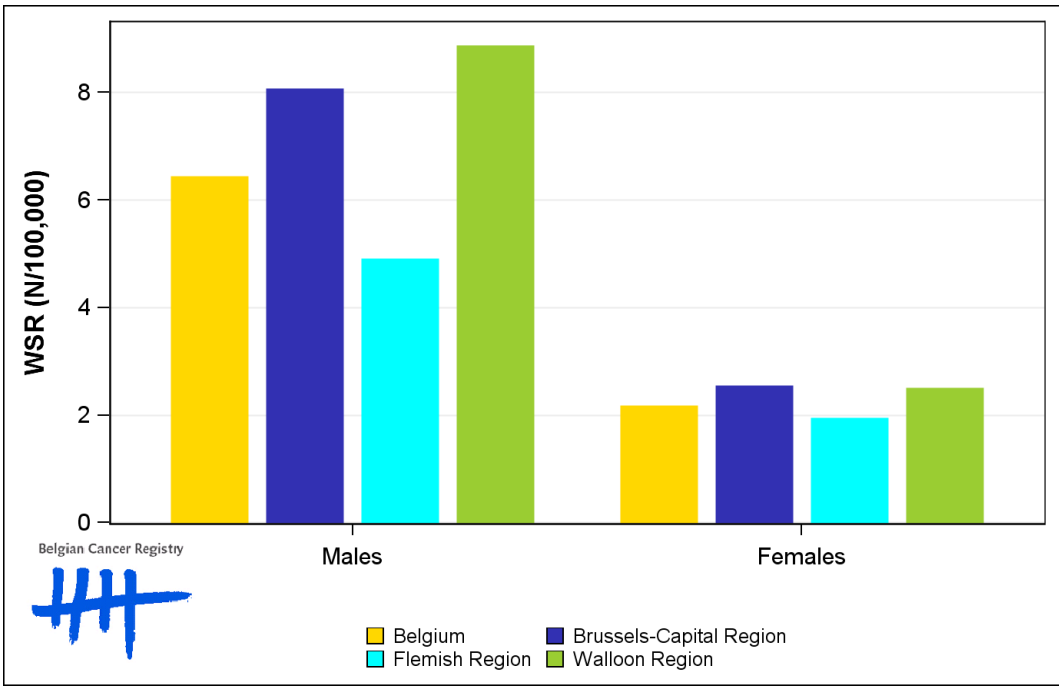
Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	67.4	668	12.1	9.2	6.4	0.85
Brussels-Capital Region	64.0	63	10.9	11.4	8.1	0.97
Flemish Region	68.5	323	10.1	7.1	4.9	0.67
Walloon Region	66.8	282	16.1	12.6	8.9	1.17

Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	69.5	269	4.7	3.1	2.2	0.27
Brussels-Capital Region	70.1	28	4.6	3.7	2.5	0.34
Flemish Region	68.5	137	4.2	2.7	1.9	0.24
Walloon Region	70.6	104	5.6	3.6	2.5	0.32

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 (%)



Figure 1: Liver cancer: Age-standardised incidence rates by sex and region, 2016



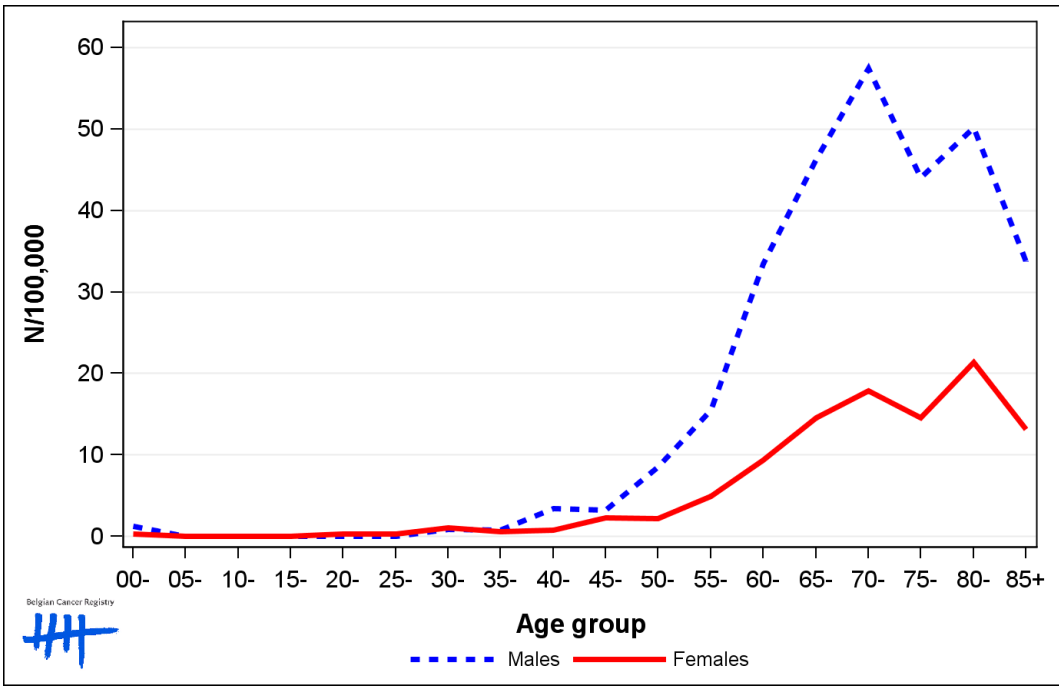
1.2. Age-specific incidence rates

Table 2: Liver cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2016

	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	1.2	0.0	0.0	0.0	0.0	0.0	0.8	0.8	3.4	3.2	8.5	15.5	33.5	46.3	57.4	44.1	50.2	33.7	12.1	9.2	6.4
Females	0.3	0.0	0.0	0.0	0.3	0.3	1.1	0.5	0.8	2.3	2.2	5.0	9.4	14.6	17.9	14.5	21.4	13.2	4.7	3.1	2.2

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: Liver cancer: Age-specific incidence rates by sex, 2016



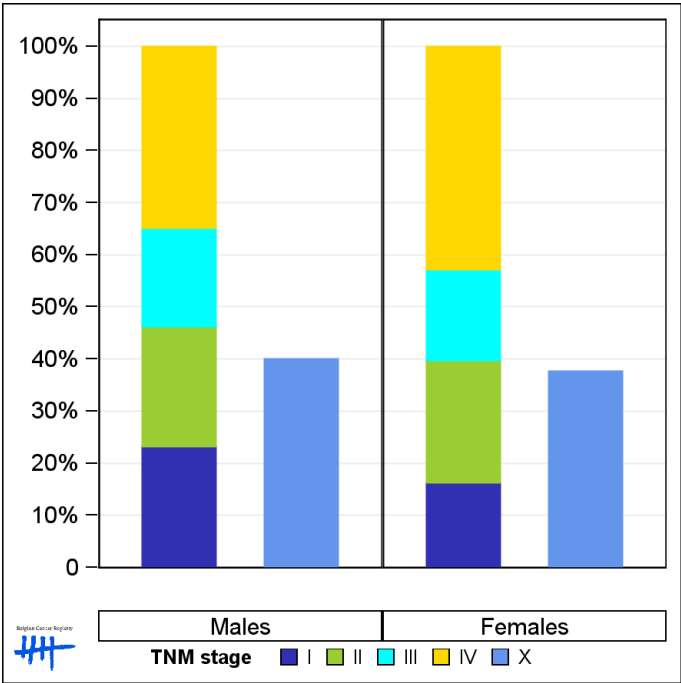
1.3. Combined stage

Table 3: Liver cancer: Distribution of combined stage by sex, Belgium 2016

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	92	91	75	138	265	7	668
%	13.8	13.6	11.2	20.7	39.7	1.0	100
Females							
N	27	39	29	71	100	3	269
%	10.0	14.5	10.8	26.4	37.2	1.1	100

Staging according to the TNM 7th edition (Ref:Sobin LH, Gospodarowicz MK, Wittekind Ch. TNM classification of malignant tumours, UICC 7th 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: Liver cancer: Bar chart of known combined stage by sex, Belgium 2016



1.4. Trends in incidence

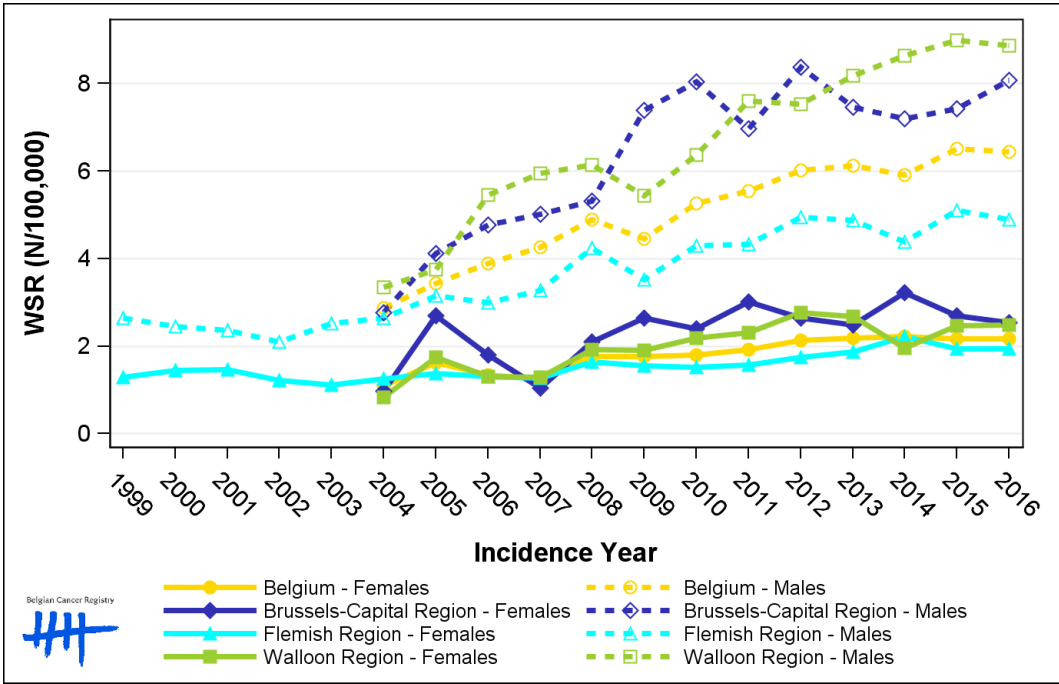
Table 4: Liver cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAPC	95% CI
Belgium			2.9	3.4	3.9	4.3	4.9	4.5	5.3	5.5	6.0	6.1	5.9	6.5	6.4	6.6	[5.6; 7.7]
Brussels-Capital Region			2.8	4.1	4.8	5.0	5.3	7.4	8.0	7.0	8.4	7.5	7.2	7.4	8.1	8.0	[6.3; 9.7]
Flemish Region	2.1	2.5	2.7	3.2	3.0	3.3	4.2	3.5	4.3	4.3	4.9	4.9	4.4	5.1	4.9	5.7	[4.6; 6.8]
Walloon Region			3.3	3.8	5.5	5.9	6.1	5.4	6.4	7.6	7.5	8.2	8.6	9.0	8.9	7.6	[5.7; 9.6]

Females	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAPC	95% CI
Belgium			1.1	1.6	1.3	1.2	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.2	5.5	[3.6; 7.4]
Brussels-Capital Region			1.0	2.7	1.8	1.0	2.1	2.6	2.4	3.0	2.6	2.5	3.2	2.7	2.5	6.4	[1.3; 11.7]
Flemish Region	1.2	1.1	1.3	1.4	1.3	1.3	1.6	1.6	1.5	1.6	1.7	1.9	2.2	1.9	1.9	4.3	[3.3; 5.3]
Walloon Region			0.8	1.8	1.3	1.3	1.9	1.9	2.2	2.3	2.8	2.7	2.0	2.5	2.5	7.0	[3.8; 10.3]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
AAPC = Average Annual Percentage Change over the 2004-2016 period (except for the Flemish region : 2002-2016).

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



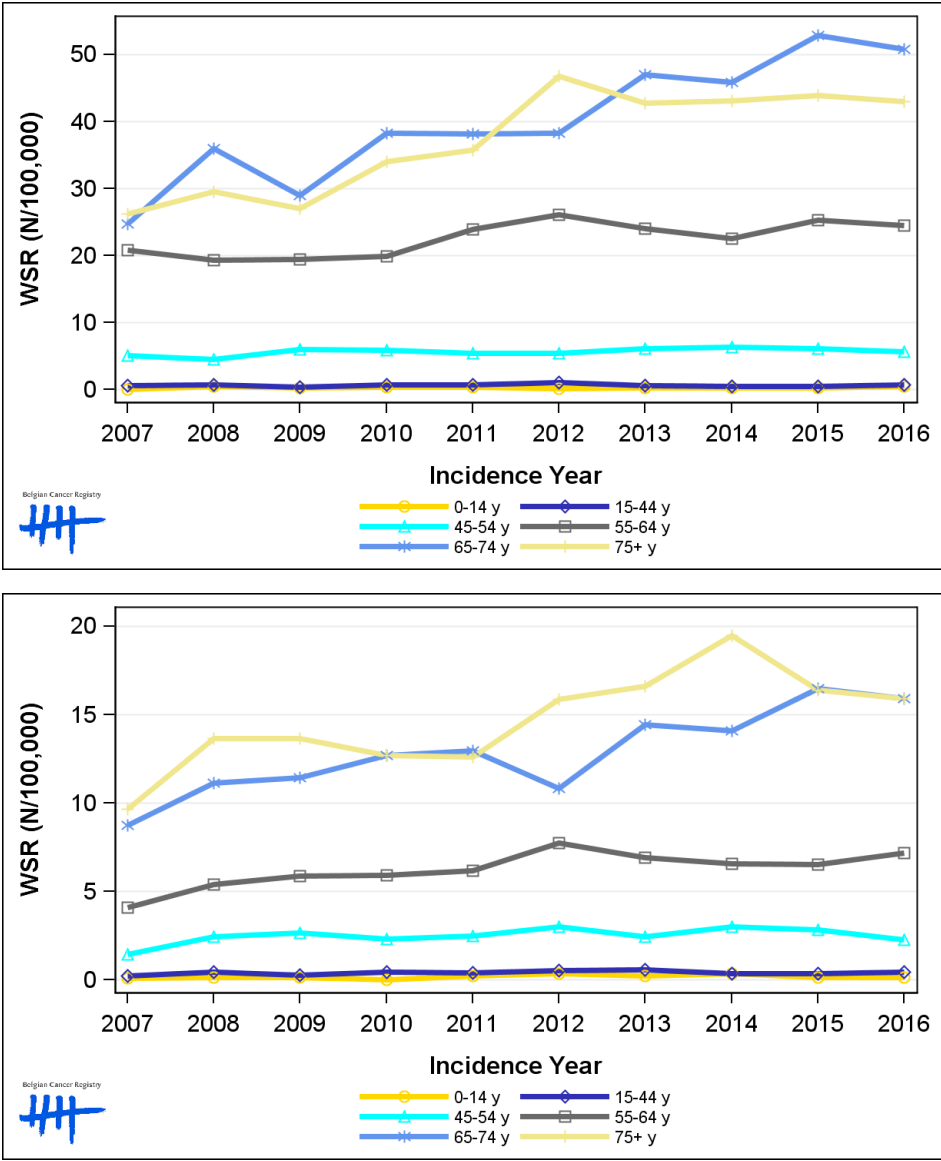
1.5. Incidence by broad age groups

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

	N											WSR									
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Males																					
All ages	370	434	406	487	528	595	611	604	667	668		4.3	4.9	4.5	5.3	5.5	6.0	6.1	5.9	6.5	6.4
0-14 y	0	4	2	3	3	1	2	2	2	4		0.0	0.5	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.5
15-44 y	15	18	11	19	19	27	14	12	13	19		0.6	0.7	0.4	0.8	0.7	1.0	0.6	0.5	0.5	0.7
45-54 y	39	36	48	48	45	45	52	53	50	48		5.1	4.5	6.0	5.9	5.4	5.4	6.1	6.3	6.1	5.6
55-64 y	122	119	123	129	158	175	162	152	173	170		20.9	19.3	19.4	19.9	23.9	26.1	24.1	22.5	25.3	24.5
65-74 y	107	153	125	165	167	171	218	217	258	255		24.7	35.9	28.9	38.2	38.1	38.3	47.1	45.9	52.9	50.8
75+ y	87	104	97	123	136	176	163	168	171	172		26.2	29.6	27.1	34.0	35.7	46.8	42.8	43.1	43.9	43.0
Females																					
All ages	144	194	198	202	211	244	253	271	268	269		1.2	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.2
0-14 y	1	1	1	0	2	3	2	3	1	1		0.1	0.1	0.1	0.0	0.2	0.4	0.2	0.3	0.1	0.1
15-44 y	6	12	6	10	10	12	14	9	9	11		0.2	0.4	0.3	0.4	0.4	0.5	0.6	0.4	0.4	0.4
45-54 y	11	19	21	19	20	24	20	25	24	18		1.5	2.5	2.7	2.3	2.5	3.0	2.5	3.0	2.8	2.3
55-64 y	25	34	38	39	42	53	48	45	45	51		4.1	5.4	5.9	5.9	6.2	7.7	6.9	6.6	6.5	7.2
65-74 y	48	55	56	62	65	55	75	75	89	88		8.7	11.1	11.4	12.7	13.0	10.8	14.4	14.1	16.5	15.9
75+ y	53	73	76	72	72	97	94	114	100	100		9.7	13.6	13.7	12.7	12.6	15.9	16.6	19.5	16.4	15.9

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

Figure 5: Liver 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: Liver cancer: 5-year relative survival proportion by sex, age group and region, Belgium 2012-2016

5-year relative survival 2012-2016 (%)						
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	3,100	22.4	[20.6, 24.5]	1,285	21.6	[18.7, 24.7]
Age group						
15-59 years	642	31.0	[27.0, 35.1]	251	38.1	[31.0, 45.2]
60-74 years	1,611	23.2	[20.6, 26.1]	529	24.5	[19.8, 29.7]
75+ years	847	12.4	[9.1, 16.4]	505	9.0	[5.8, 13.4]
Region						
Brussels-Capital Region	289	24.1	[17.9, 31.1]	134	22.7	[14.2, 32.7]
Flemish Region	1,512	23.0	[20.4, 25.8]	679	22.0	[18.1, 26.2]
Walloon Region	1,299	21.4	[18.5, 24.6]	472	20.9	[16.1, 26.2]

Figure 6: Liver cancer: relative survival proportion by sex, Belgium 2012-2016

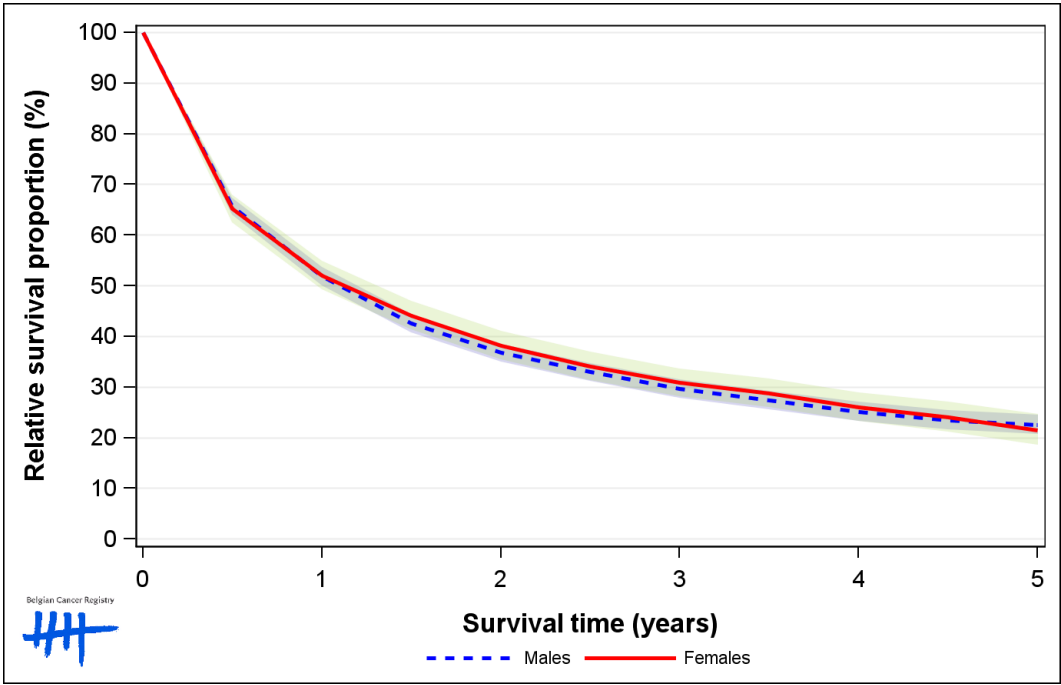


Figure 7: Liver cancer: relative survival proportion by age group in males, Belgium 2012-2016

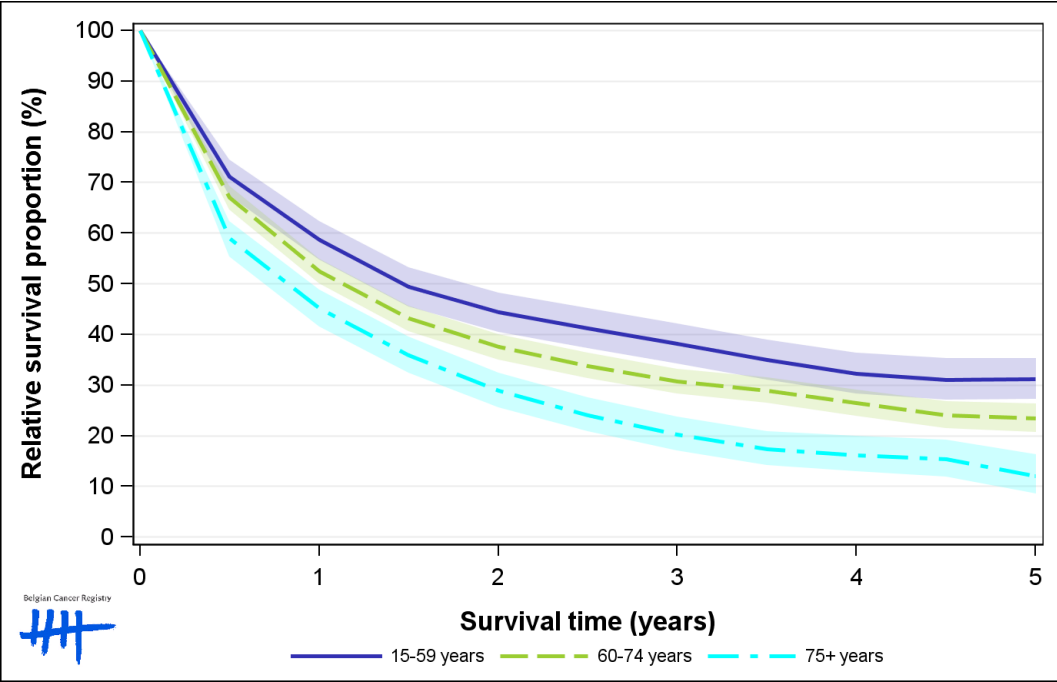


Figure 8: Liver cancer: relative survival proportion by age group in females, Belgium 2012-2016

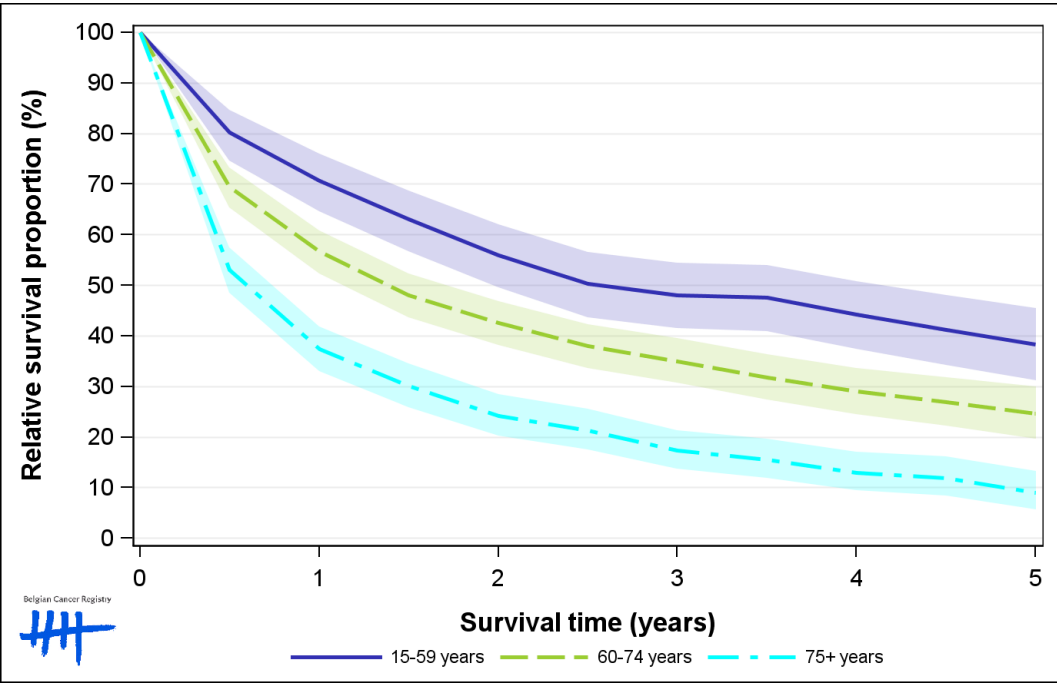


Figure 9: Liver cancer: relative survival proportion by region in males, Belgium 2012-2016

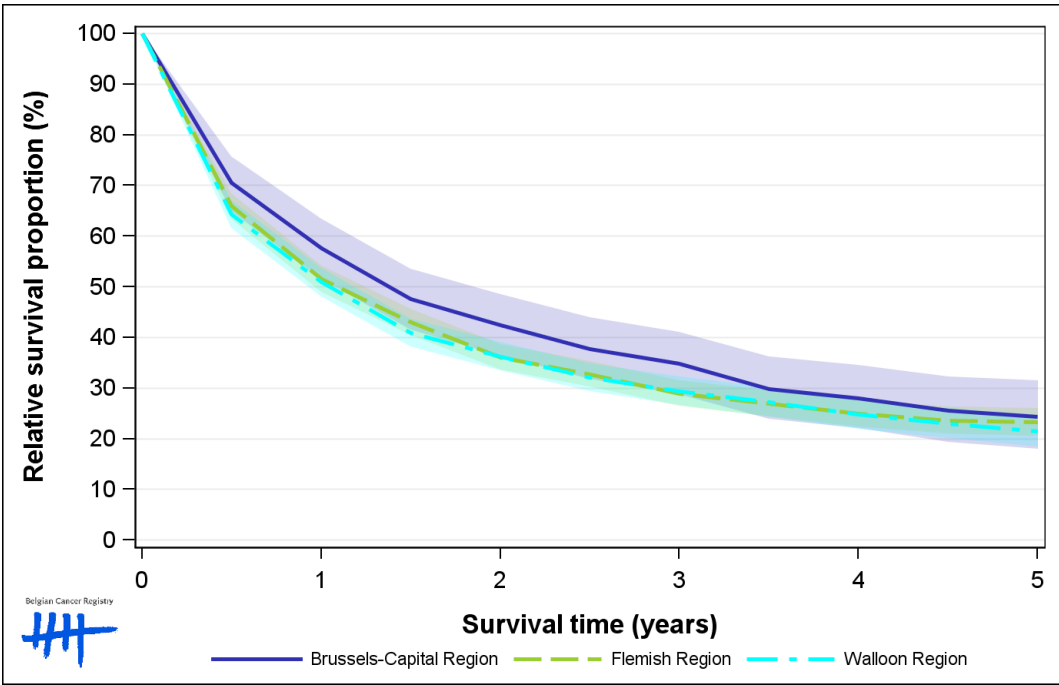


Figure 10: Liver cancer: relative survival proportion by region in females, Belgium 2012-2016

