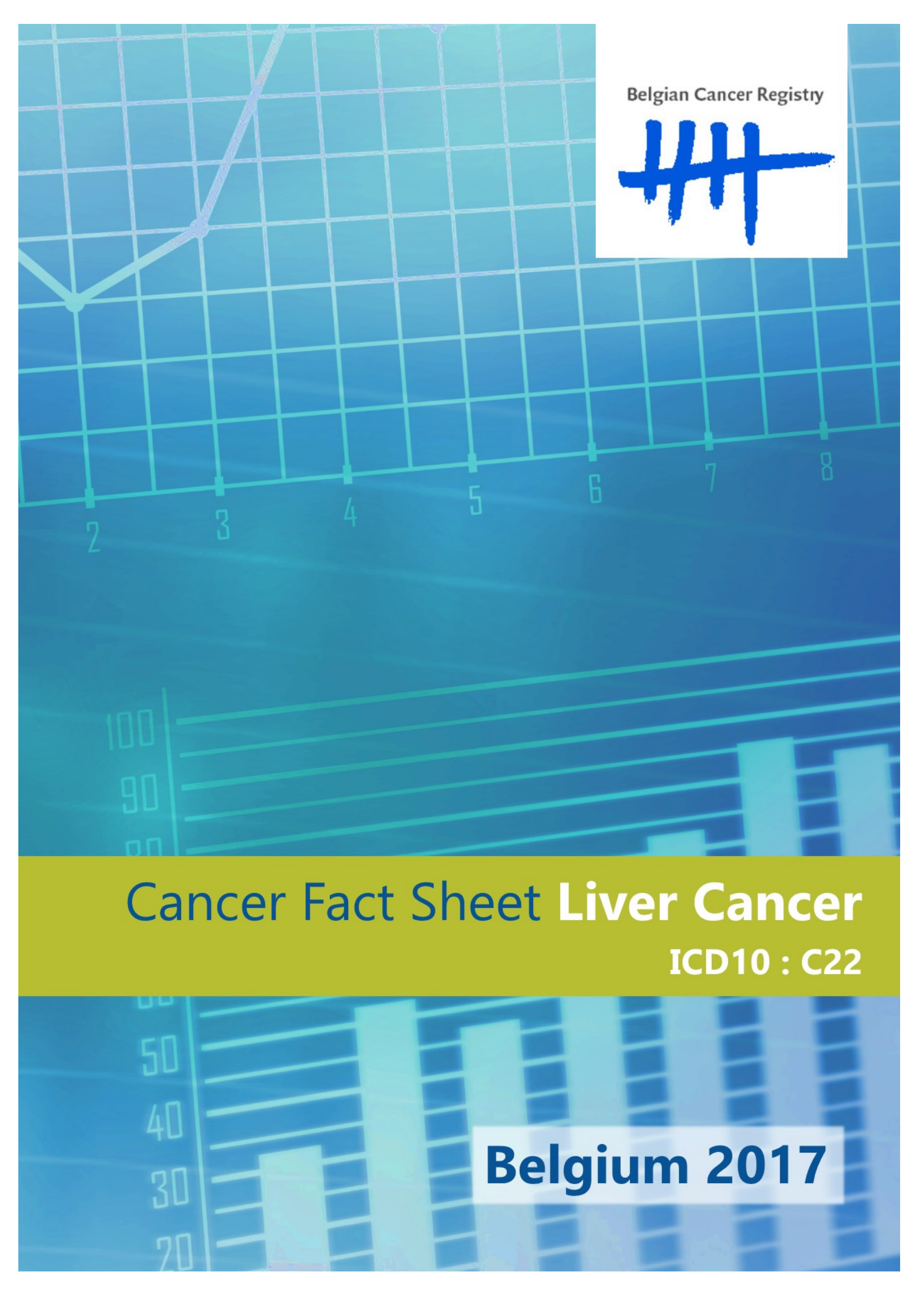




Belgian Cancer Registry



Cancer Fact Sheet **Liver Cancer**

ICD10 : C22



Belgium 2017

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, 2017

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	67.9	717	12.9	9.6	6.6	0.86
Brussels-Capital Region	67.2	74	12.7	13.5	9.2	1.12
Flemish Region	69.0	342	10.6	7.3	5.0	0.64
Walloon Region	66.7	301	17.1	13.3	9.3	1.25

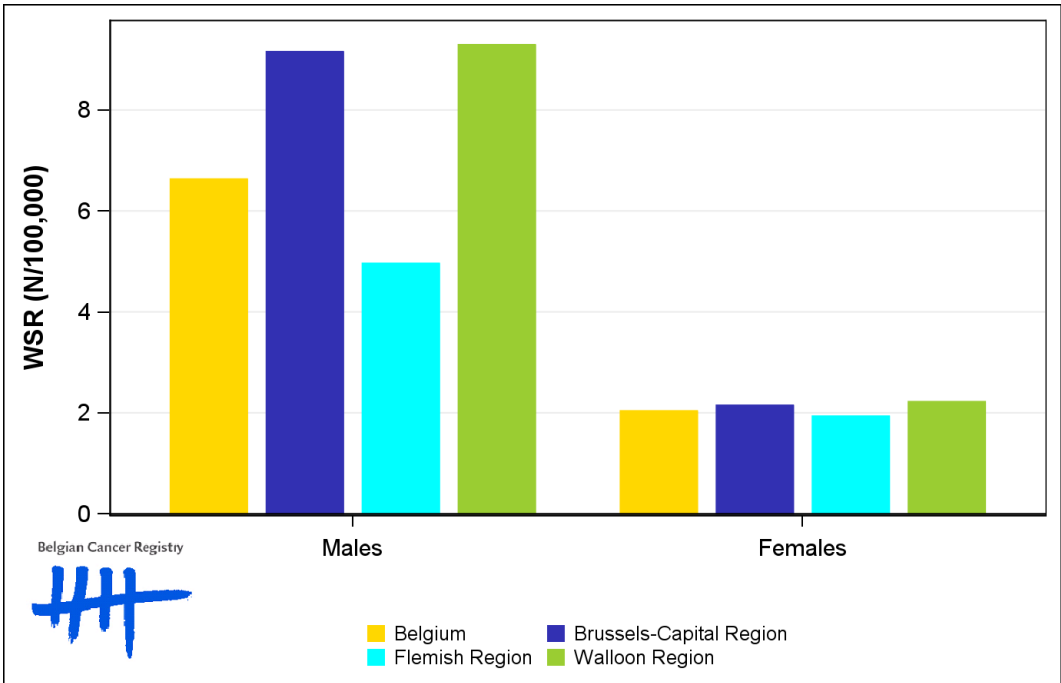
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	70.0	263	4.6	2.9	2.0	0.24
Brussels-Capital Region	74.8	29	4.8	3.4	2.1	0.26
Flemish Region	69.6	146	4.4	2.8	1.9	0.23
Walloon Region	69.0	88	4.8	3.1	2.2	0.26

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 (%)

Belgian Cancer Registry



Figure 1: Liver cancer: Age-standardised incidence rates by sex and region, 2017



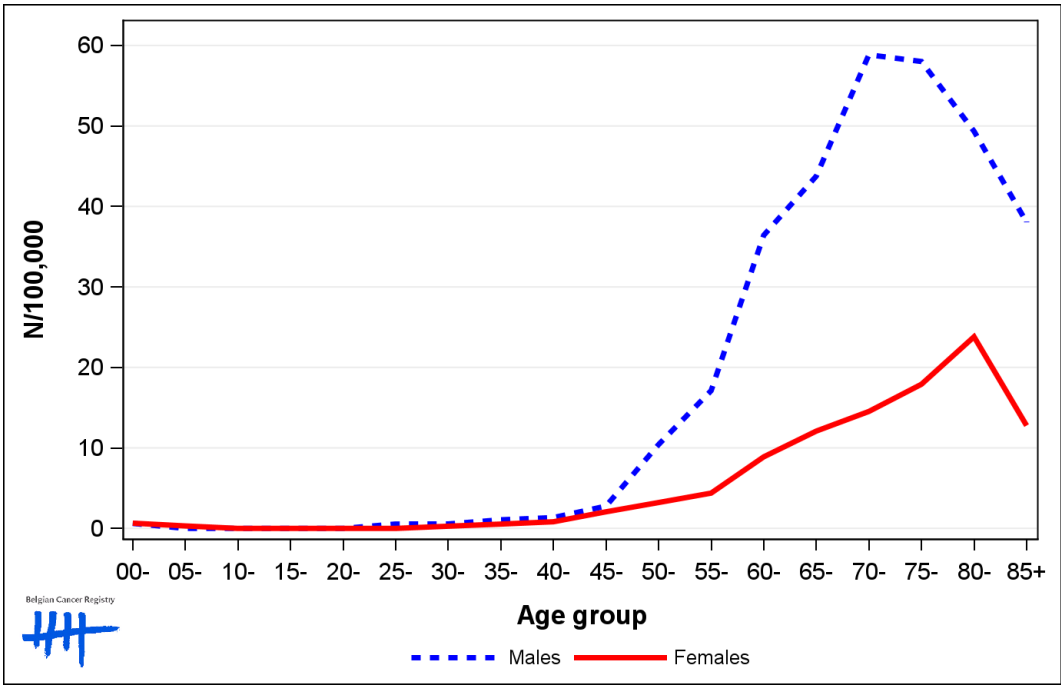
1.2. Age-specific incidence rates

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

	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	0.6	0.0	0.0	0.0	0.0	0.5	0.6	1.1	1.3	2.8	10.4	17.1	36.4	43.8	58.8	58.0	49.3	38.0	12.9	9.6	6.6
Females	0.7	0.3	0.0	0.0	0.0	0.0	0.3	0.5	0.8	2.1	3.2	4.4	8.9	12.1	14.5	17.9	23.8	12.8	4.6	2.9	2.0

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, 2017



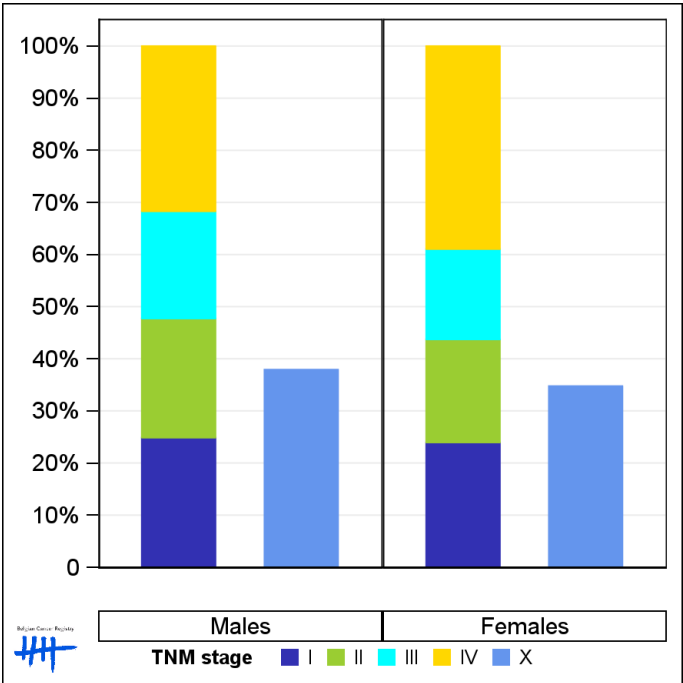
1.3. Combined stage

Table 3: Liver cancer: Distribution of combined stage by sex, Belgium 2017

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	110	101	91	140	270	5	717
%	15.3	14.1	12.7	19.5	37.7	0.7	100
Females							
N	40	33	29	65	89	7	263
%	15.2	12.5	11.0	24.7	33.8	2.7	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: Liver cancer: Bar chart of known combined stage by sex, Belgium 2017



1.4. Trends in incidence

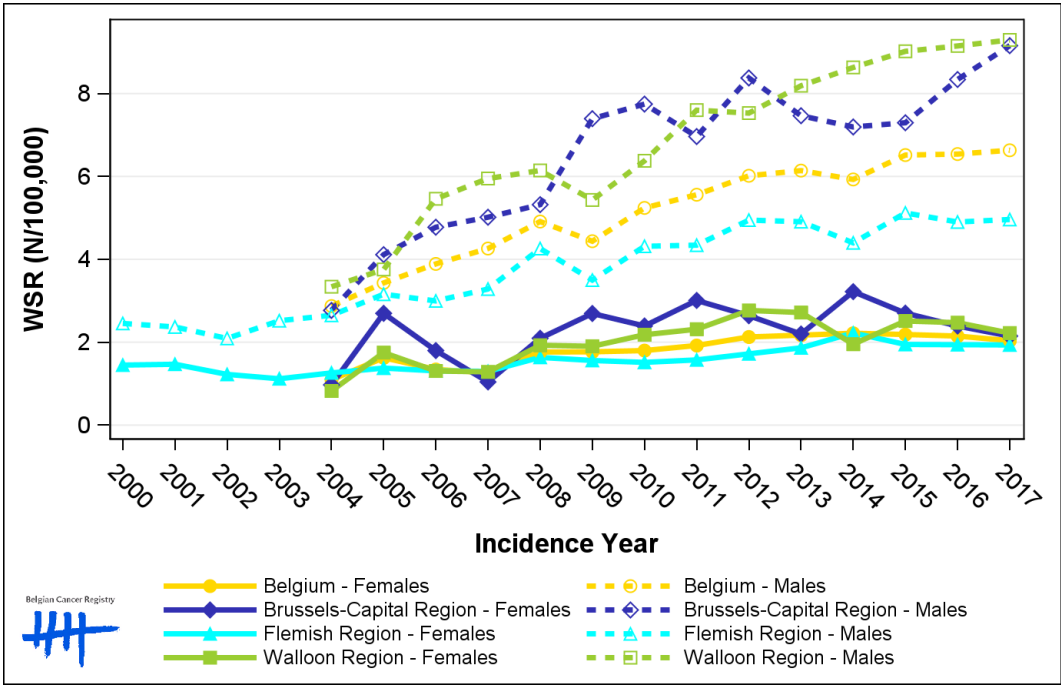
Table 4: Liver cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	AAPC	95% CI
Belgium		2.9	3.4	3.9	4.3	4.9	4.4	5.2	5.6	6.0	6.1	5.9	6.5	6.5	6.6	6.5	[5.6; 7.4]
Brussels-Capital Region		2.8	4.1	4.8	5.0	5.3	7.4	7.7	7.0	8.4	7.5	7.2	7.3	8.3	9.2	7.9	[6.4; 9.4]
Flemish Region	2.5	2.7	3.2	3.0	3.3	4.3	3.5	4.3	4.3	4.9	4.9	4.4	5.1	4.9	5.0	4.8	[3.8; 5.8]
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	9.1	9.3	8.3	[6.6; 9.9]

Females	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	AAPC	95% CI
Belgium		1.1	1.6	1.3	1.3	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.1	2.0	4.2	[2.6; 5.7]
Brussels-Capital Region		1.0	2.7	1.8	1.0	2.1	2.7	2.4	3.0	2.6	2.2	3.2	2.7	2.4	2.1	4.5	[0.2; 9.0]
Flemish Region	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	1.9	4.2	[3.2; 5.2]
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	2.2	5.7	[3.1; 8.5]

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



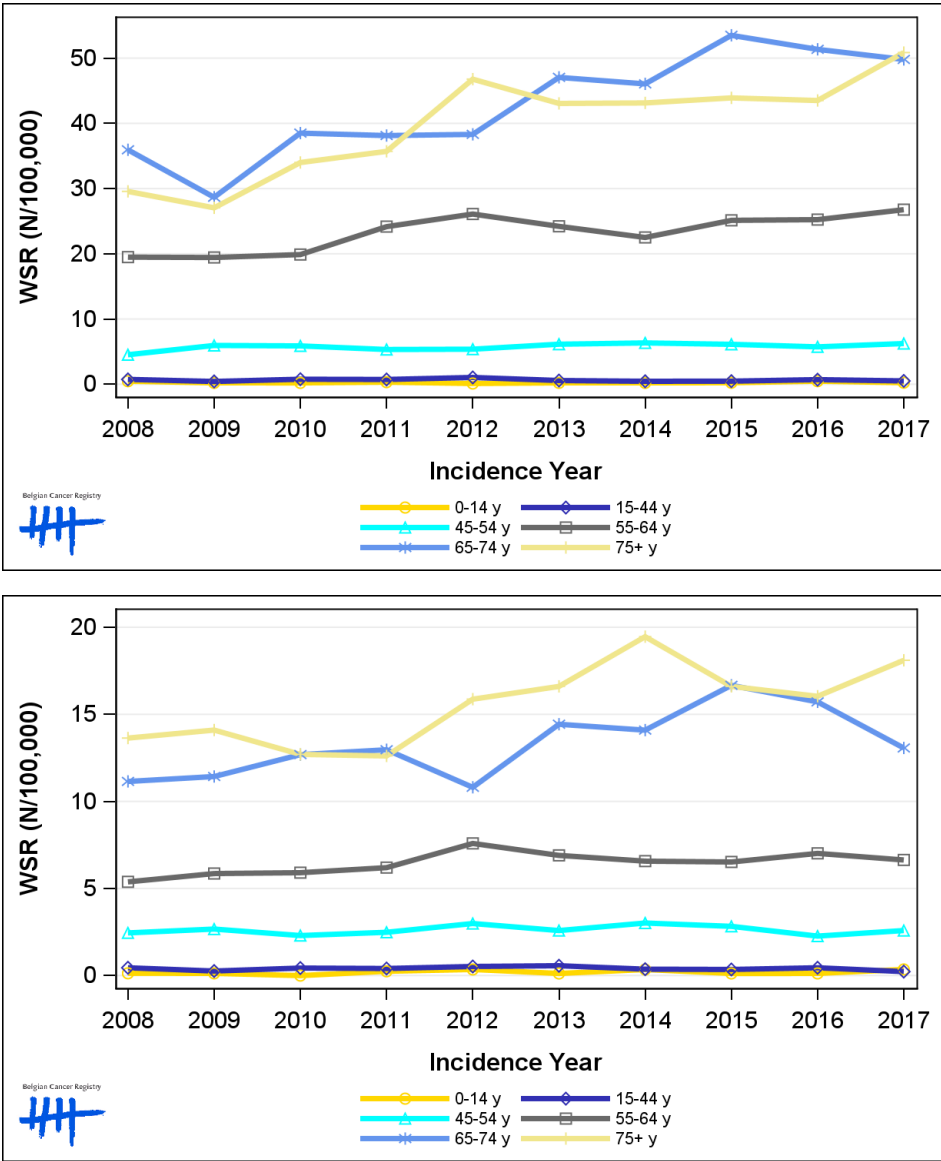
1.5. Incidence by broad age groups

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									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Males																				
All ages	435	405	487	529	595	613	605	668	679	717	4.9	4.4	5.2	5.6	6.0	6.1	5.9	6.5	6.5	6.6
0-14 y	4	2	2	3	1	2	2	2	4	2	0.5	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.5	0.2
15-44 y	18	11	19	19	27	14	12	12	19	13	0.7	0.4	0.8	0.7	1.0	0.6	0.5	0.5	0.7	0.5
45-54 y	36	48	48	44	45	52	53	50	49	54	4.5	6.0	5.9	5.3	5.4	6.1	6.3	6.1	5.7	6.2
55-64 y	120	123	129	160	175	163	152	172	175	189	19.5	19.4	19.9	24.2	26.1	24.2	22.5	25.1	25.2	26.8
65-74 y	153	124	166	167	171	218	218	261	258	261	35.9	28.7	38.5	38.1	38.3	47.1	46.1	53.5	51.4	49.8
75+ y	104	97	123	136	176	164	168	171	174	198	29.6	27.1	34.0	35.7	46.8	43.1	43.1	43.9	43.5	50.9
Females																				
All ages	194	200	202	211	243	253	271	270	268	263	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.1	2.0
0-14 y	1	1	0	2	3	1	3	1	1	3	0.1	0.1	0.0	0.2	0.4	0.1	0.3	0.1	0.1	0.4
15-44 y	12	6	10	10	12	14	9	9	11	6	0.4	0.3	0.4	0.4	0.5	0.6	0.4	0.4	0.4	0.2
45-54 y	19	21	19	20	24	21	25	24	18	21	2.5	2.7	2.3	2.5	3.0	2.6	3.0	2.8	2.3	2.6
55-64 y	34	38	39	42	52	48	45	45	50	48	5.4	5.9	5.9	6.2	7.6	6.9	6.6	6.5	7.0	6.6
65-74 y	55	56	62	65	55	75	75	90	87	75	11.1	11.4	12.7	13.0	10.8	14.4	14.1	16.7	15.7	13.1
75+ y	73	78	72	72	97	94	114	101	101	110	13.6	14.1	12.7	12.6	15.9	16.6	19.5	16.6	16.0	18.1

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 2013-2017

	5-year relative survival 2013-2017 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	3,242	21.2	[19.4, 23.2]	1,303	21.2	[18.5, 24.2]
Age group						
15-59 years	627	26.6	[22.5, 30.9]	235	35.4	[28.2, 42.8]
60-74 years	1,744	23.2	[20.7, 25.9]	550	27.1	[22.8, 31.8]
75+ years	871	12.4	[9.1, 16.4]	518	7.7	[4.8, 11.6]
Region						
Brussels-Capital Region	304	25.0	[18.7, 32.1]	131	21.5	[13.3, 31.2]
Flemish Region	1,561	21.6	[19.1, 24.4]	700	20.0	[16.4, 24.1]
Walloon Region	1,377	19.9	[17.2, 23.0]	472	22.9	[18.4, 27.9]

Figure 6: Liver cancer: relative survival proportion by sex, Belgium 2013-2017

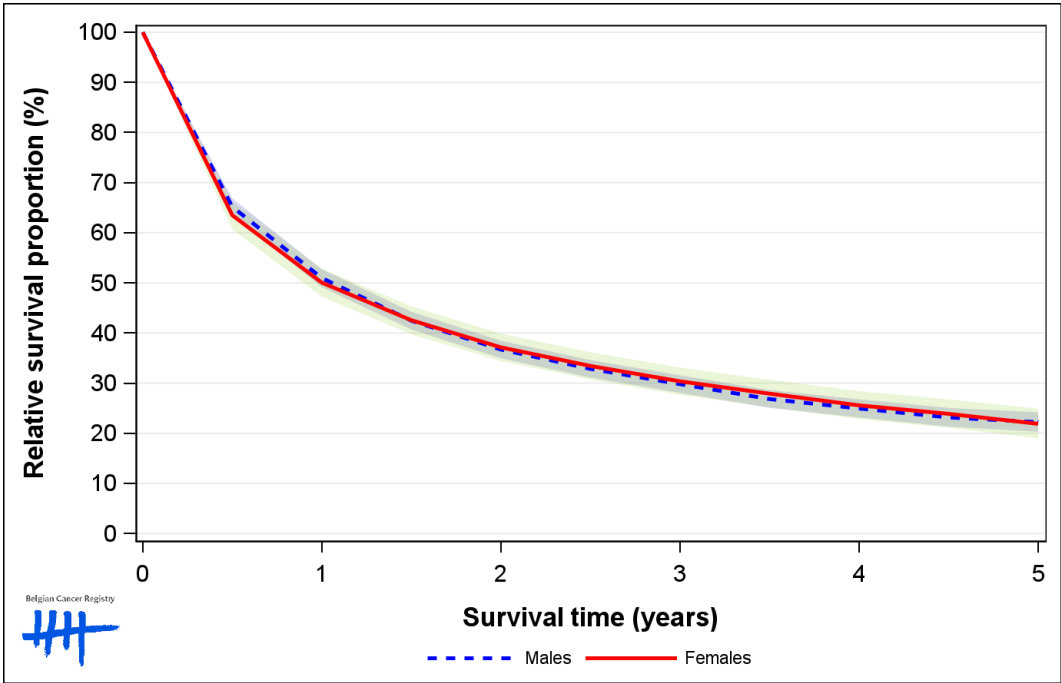


Figure 7: Liver cancer: relative survival proportion by age group in males, Belgium 2013-2017

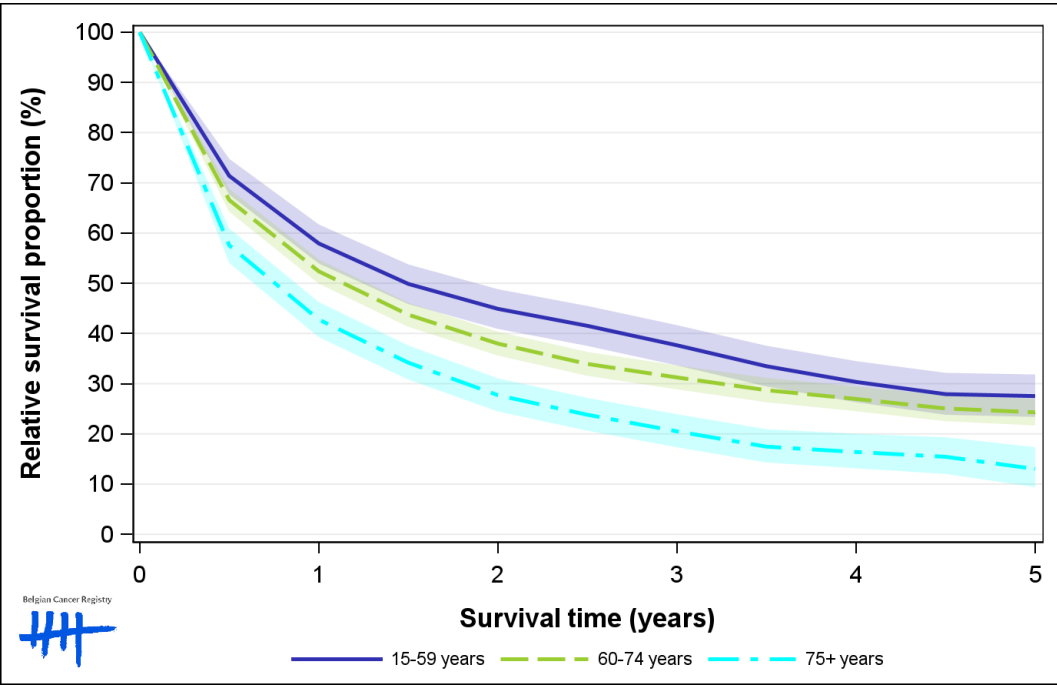


Figure 8: Liver cancer: relative survival proportion by age group in females, Belgium 2013-2017

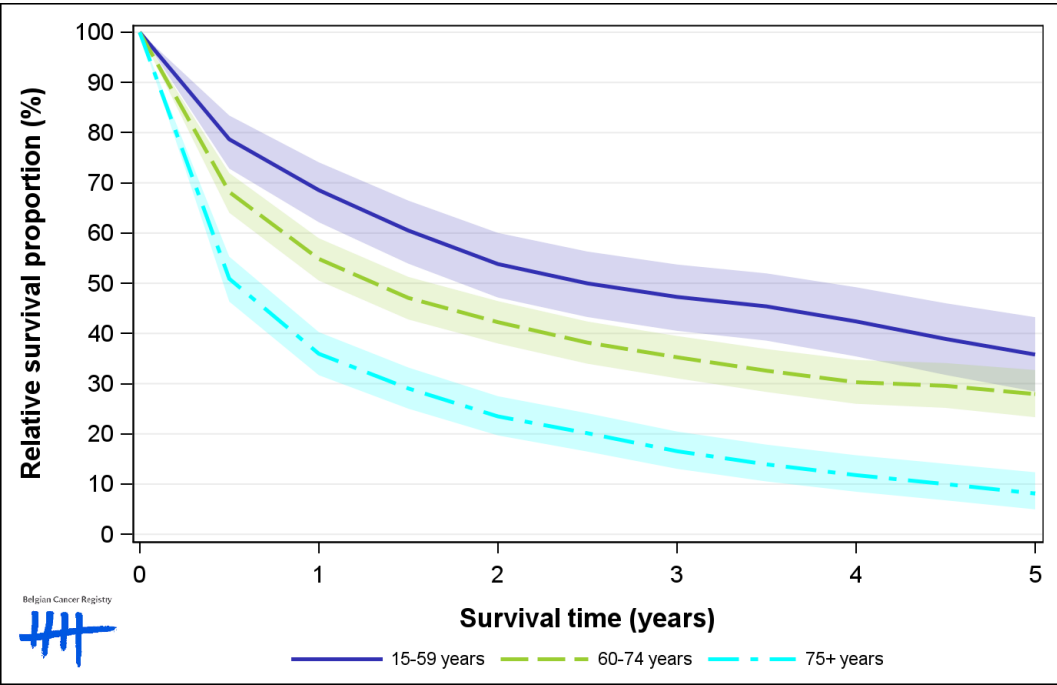


Figure 9: Liver cancer: relative survival proportion by region in males, Belgium 2013-2017

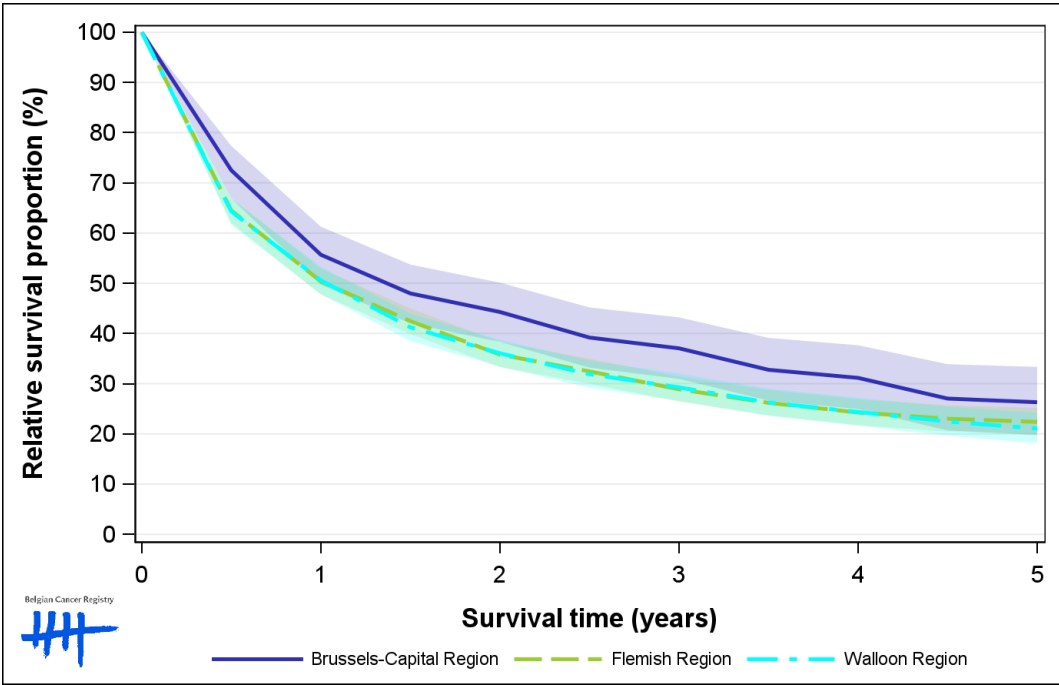


Figure 10: Liver cancer: relative survival proportion by region in females, Belgium 2013-2017

