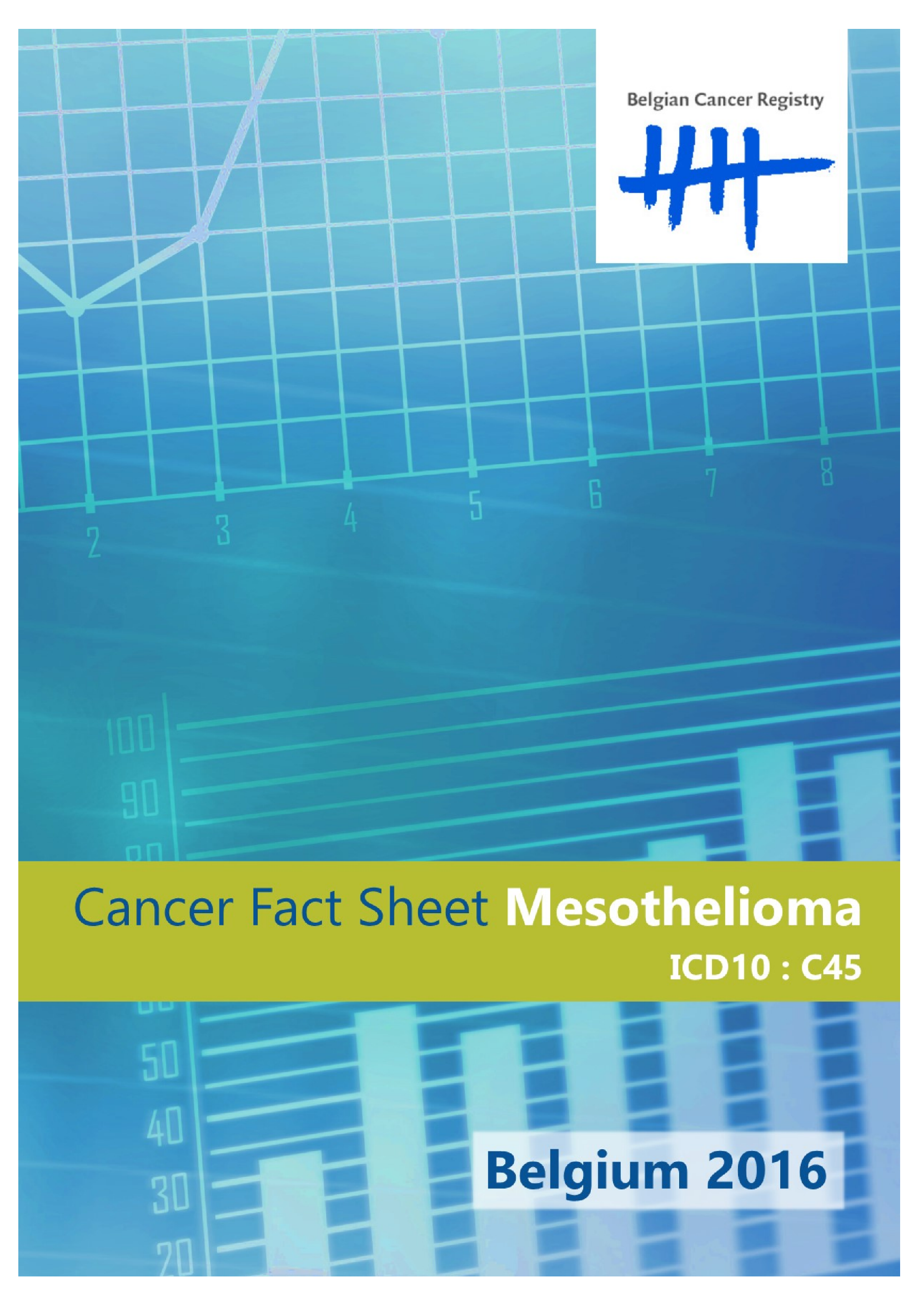


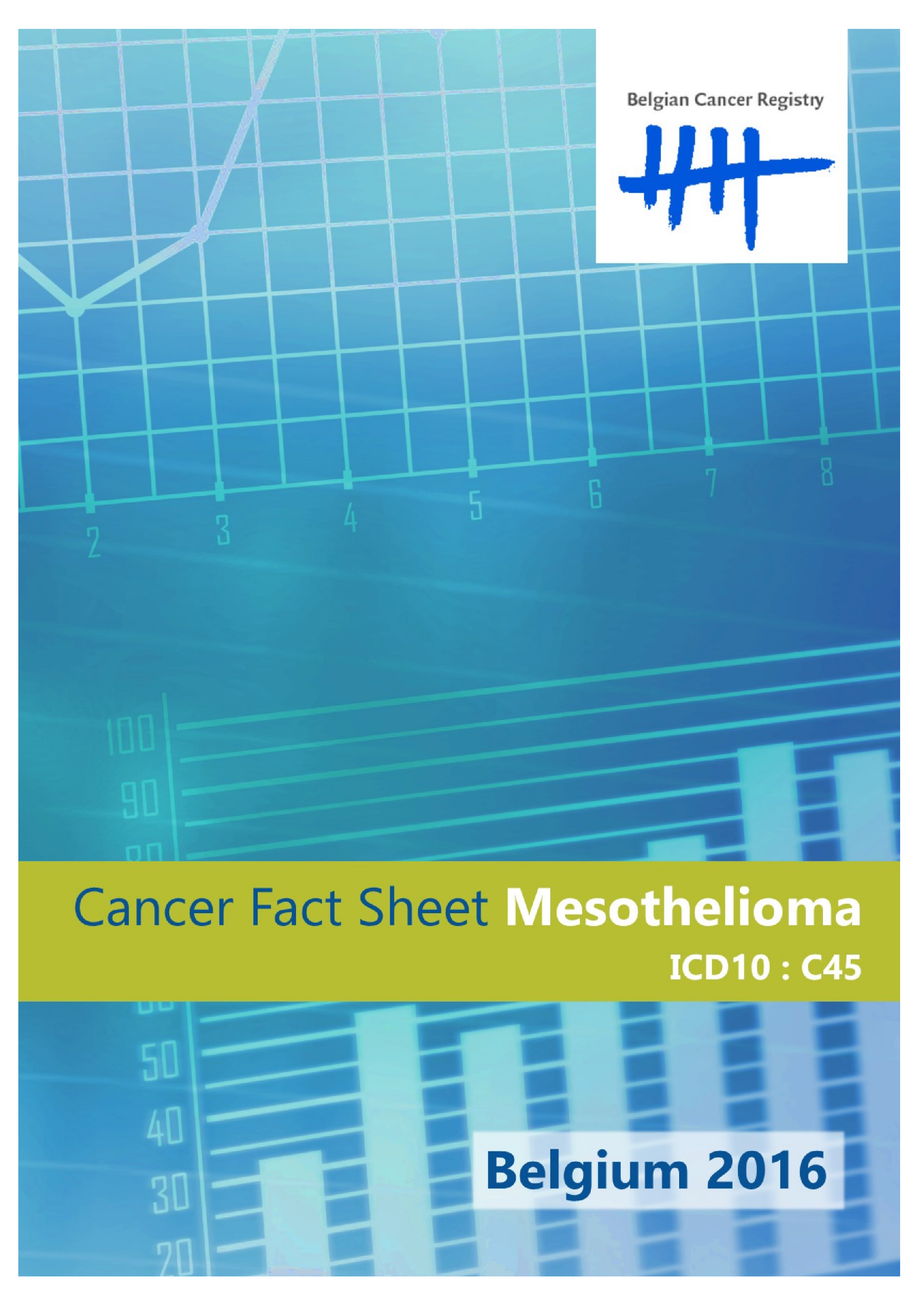


Belgian Cancer Registry



Cancer Fact Sheet **Mesothelioma**

ICD10 : C45



Belgium 2016

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Mesothelioma: 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

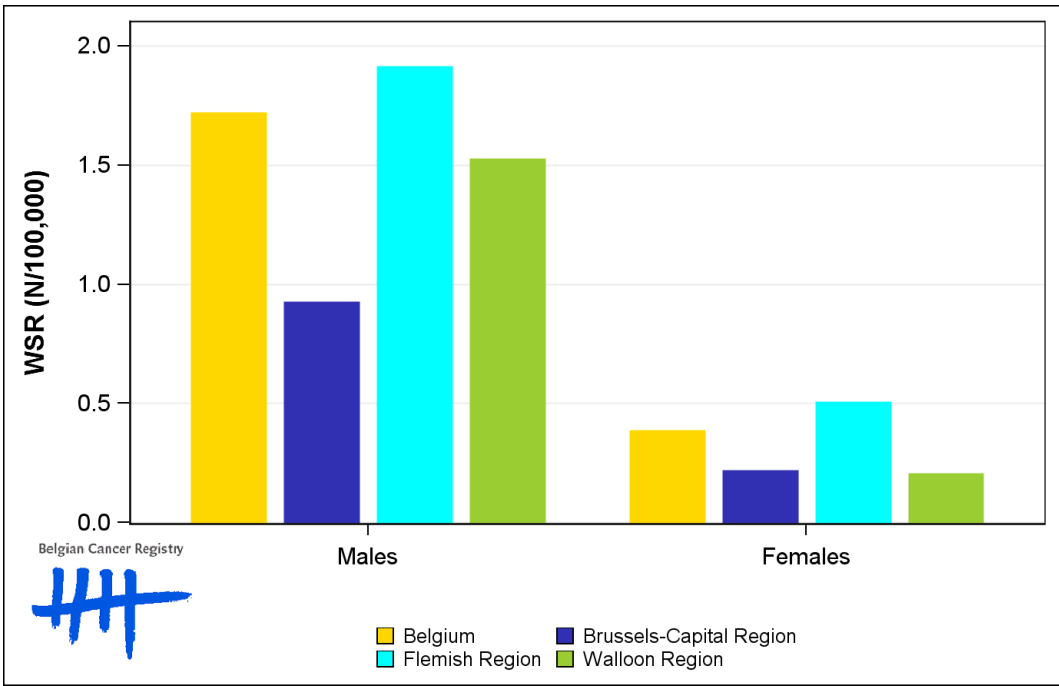
Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	73.7	217	3.9	2.7	1.7	0.20
Brussels-Capital Region	78.4	10	1.7	1.6	0.9	<0.1
Flemish Region	73.6	149	4.7	3.0	1.9	0.23
Walloon Region	73.2	58	3.3	2.4	1.5	0.18

Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	71.7	54	0.9	0.6	0.4	<0.1
Brussels-Capital Region	75.7	3	0.5	0.4	0.2	<0.1
Flemish Region	72.0	43	1.3	0.8	0.5	<0.1
Walloon Region	68.5	8	0.4	0.3	0.2	<0.1

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)
CRi=Cumulative Risk for 0-74 years (%)



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



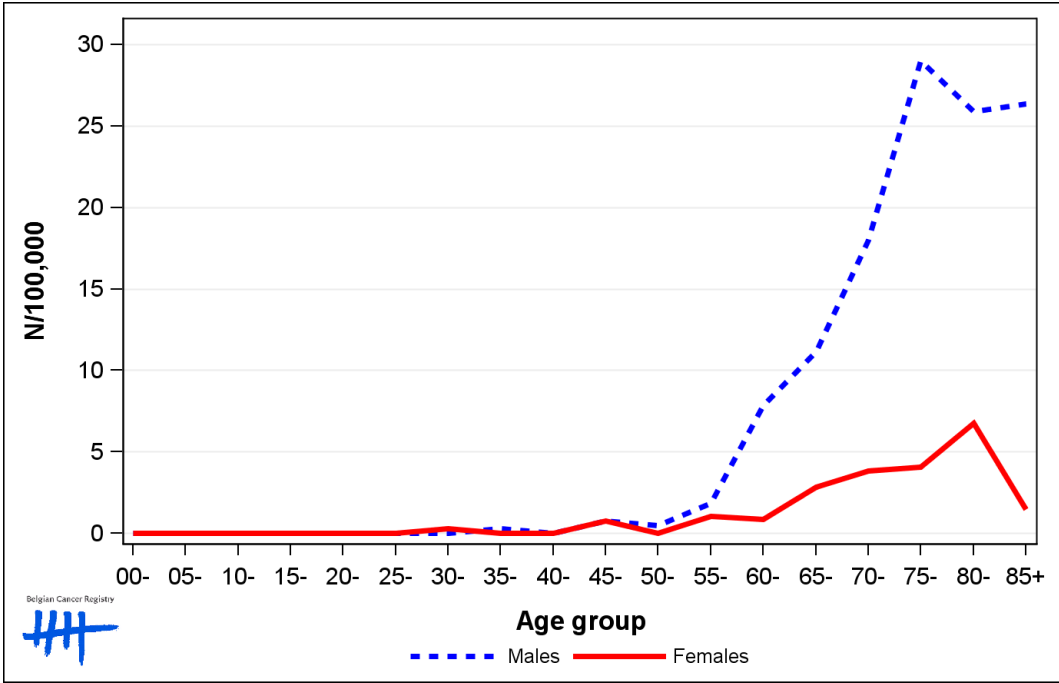
1.2. Age-specific incidence rates

Table 2: Mesothelioma: 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	0.5	1.8	7.8	11.2	18.0	29.0	25.9	26.4	3.9	2.7	1.7
Females	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.8	0.0	1.0	0.9	2.9	3.8	4.1	6.8	1.5	0.9	0.6	0.4

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: Mesothelioma: Age-specific incidence rates by sex, 2016



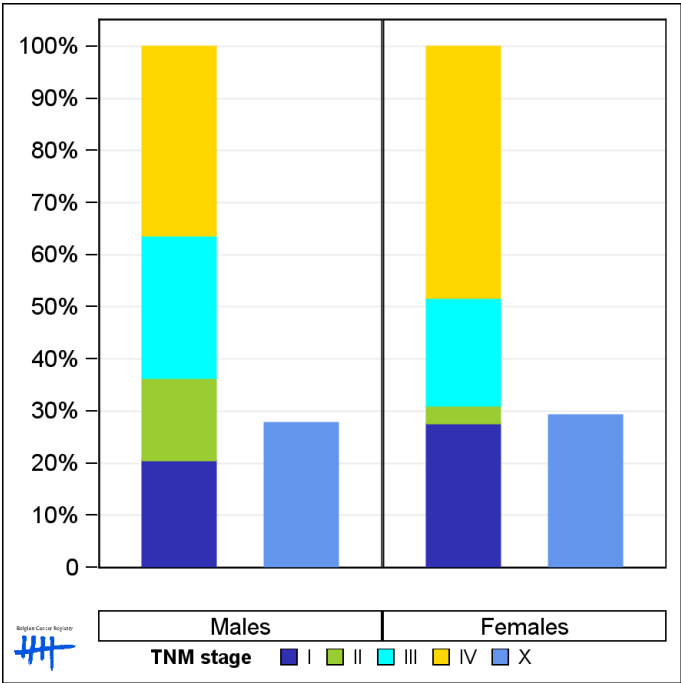
1.3. Combined stage

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

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	30	23	40	53	56	15	217
%	13.8	10.6	18.4	24.4	25.8	6.9	100
Females							
N	8	1	6	14	12	13	54
%	14.8	1.9	11.1	25.9	22.2	24.1	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: Mesothelioma: Bar chart of known combined stage by sex, Belgium 2016



1.4. Trends in incidence

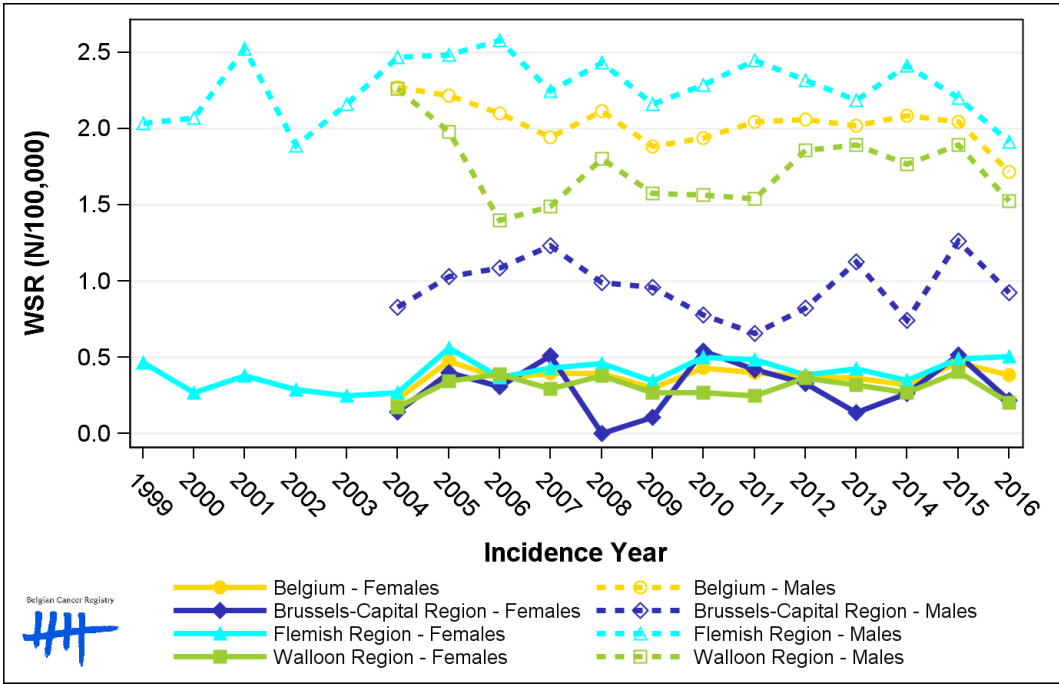
Table 4: Mesothelioma: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAPC	95% CI
Belgium			2.3	2.2	2.1	1.9	2.1	1.9	1.9	2.0	2.1	2.0	2.1	2.0	1.7	-1.2	[-2.2; -0.2]
Brussels-Capital Region			0.8	1.0	1.1	1.2	1.0	1.0	0.8	0.7	0.8	1.1	0.7	1.3	0.9	-0.5	[-3.8; 2.9]
Flemish Region	1.9	2.2	2.5	2.5	2.6	2.2	2.4	2.2	2.3	2.4	2.3	2.2	2.4	2.2	1.9	0.2	[-0.8; 1.3]
Walloon Region			2.3	2.0	1.4	1.5	1.8	1.6	1.6	1.5	1.9	1.9	1.8	1.9	1.5	-2.1	[-3.9; -0.3]

Females	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAPC	95% CI
Belgium			0.2	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.5	0.4	1.3	[-1.8; 4.6]
Brussels-Capital Region			0.1	0.4	0.3	0.5	0.0	0.1	0.5	0.4	0.3	0.1	0.3	0.5	0.2	0.0	
Flemish Region	0.3	0.2	0.3	0.6	0.4	0.4	0.5	0.3	0.5	0.5	0.4	0.4	0.4	0.5	0.5	3.2	[0.4; 6.0]
Walloon Region			0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.4	0.2	0.3	[-4.0; 4.7]

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



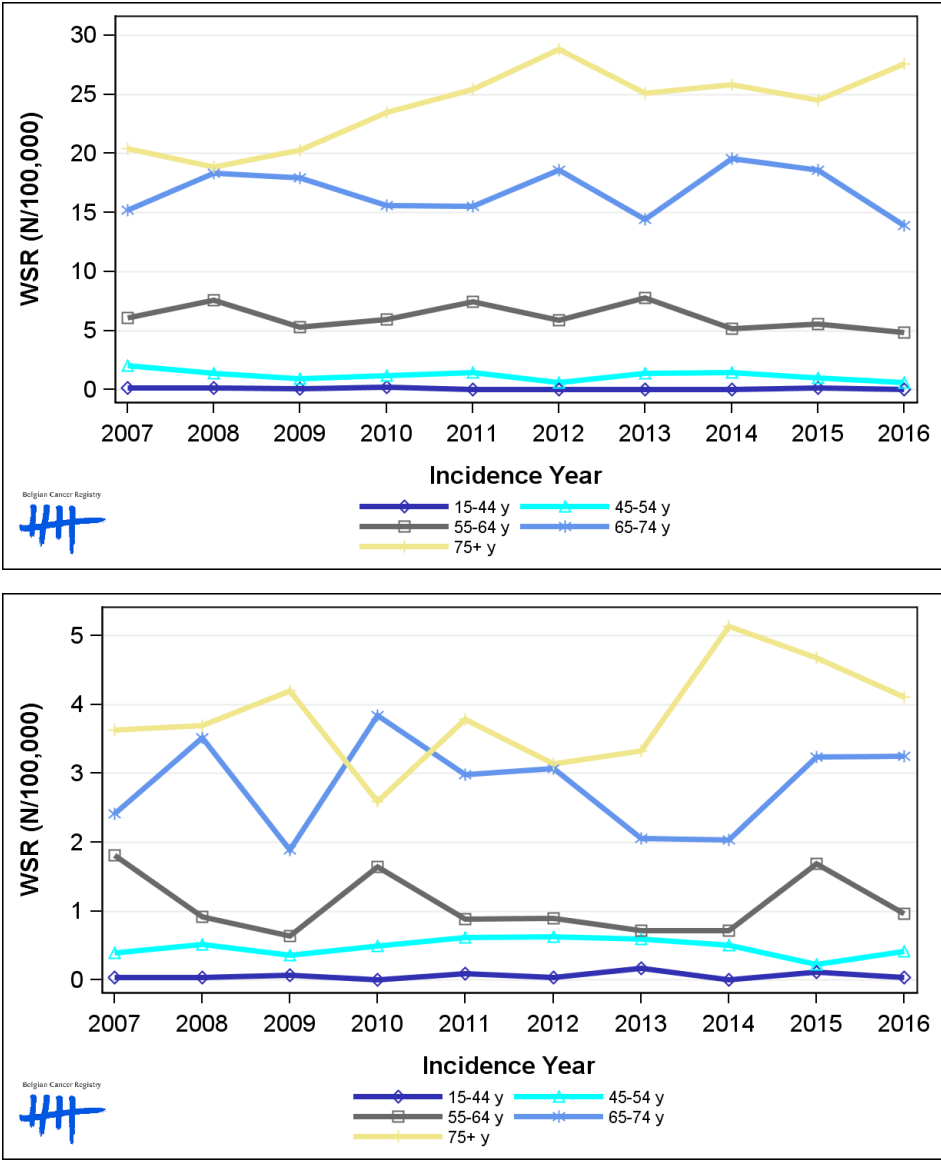
1.5. Incidence by broad age groups

Table 5: Mesothelioma: 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	191	205	193	204	222	236	228	244	239	217	1.9	2.1	1.9	1.9	2.0	2.1	2.0	2.1	2.0	1.7
0-14 y	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-44 y	4	4	3	4	0	1	1	1	4	1	0.1	0.2	0.1	0.2	0.0	<0.1	<0.1	<0.1	0.2	<0.1
45-54 y	16	11	8	10	12	5	12	12	9	5	2.0	1.4	1.0	1.2	1.5	0.6	1.4	1.4	1.0	0.6
55-64 y	35	46	34	38	50	39	52	36	38	33	6.1	7.6	5.3	5.9	7.5	5.9	7.8	5.2	5.5	4.8
65-74 y	69	79	77	67	70	87	68	93	91	70	15.2	18.3	18.0	15.6	15.5	18.6	14.5	19.6	18.6	13.9
75+ y	67	65	71	85	90	104	95	102	97	108	20.4	18.8	20.3	23.5	25.4	28.9	25.1	25.8	24.5	27.6
Females																				
All ages	47	50	41	52	50	44	44	48	64	54	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.5	0.4
0-14 y	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-44 y	1	1	2	0	2	1	4	0	3	1	<0.1	<0.1	<0.1	0.0	<0.1	<0.1	0.2	0.0	0.1	<0.1
45-54 y	3	4	3	4	5	5	5	4	2	3	0.4	0.5	0.4	0.5	0.6	0.6	0.6	0.5	0.2	0.4
55-64 y	11	6	4	11	6	6	5	5	12	7	1.8	0.9	0.6	1.6	0.9	0.9	0.7	0.7	1.7	1.0
65-74 y	12	18	9	20	14	15	11	11	17	18	2.4	3.5	1.9	3.8	3.0	3.1	2.1	2.0	3.2	3.2
75+ y	20	21	23	17	23	17	19	28	30	25	3.6	3.7	4.2	2.6	3.8	3.1	3.3	5.1	4.7	4.1

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

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



2. Relative survival

Table 6: Mesothelioma: 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	1,158	7.1	[5.2, 9.5]	254	12.1	[7.4, 18.4]
Age group						
15-59 years	125	16.6	[9.8, 25.1]	44	31.2	[16.4, 47.4]
60-74 years	529	7.3	[4.6, 11.0]	91	9.0	[2.7, 20.4]
75+ years	504	4.4	[2.2, 8.1]	119	5.5	[1.3, 15.1]
Region						
Brussels-Capital Region	45	10.3	[2.5, 25.6]	19	NA (N<35) -	
Flemish Region	801	7.4	[5.1, 10.3]	168	11.7	[6.4, 19.0]
Walloon Region	312	5.9	[2.8, 11.0]	67	13.9	[5.2, 27.4]

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

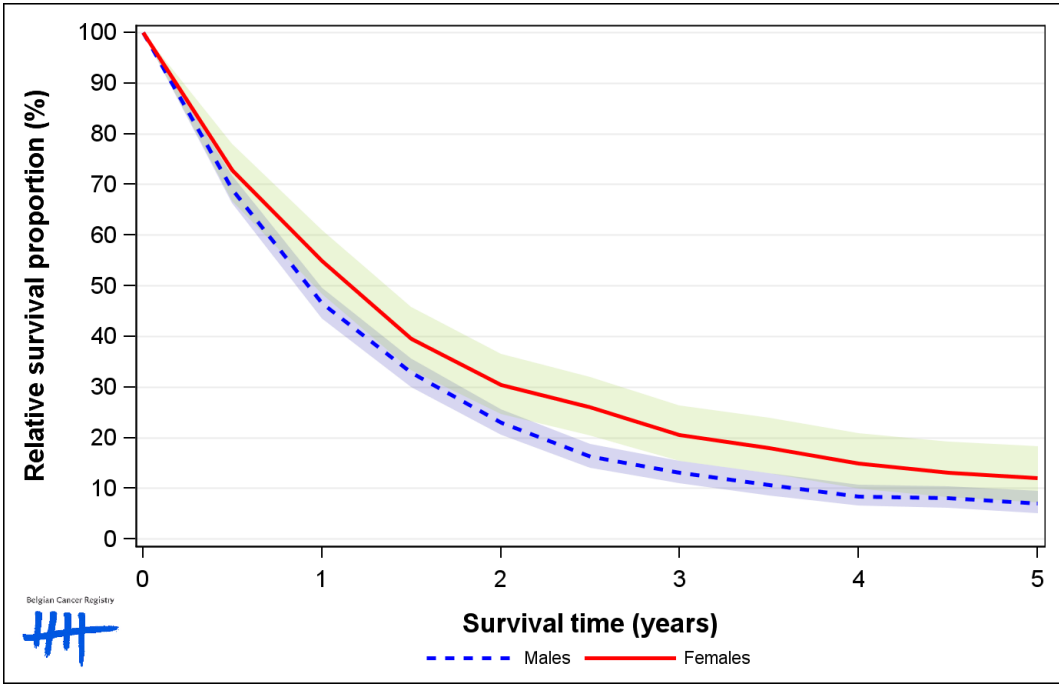


Figure 7: Mesothelioma: relative survival proportion by age group in males, Belgium 2012-2016

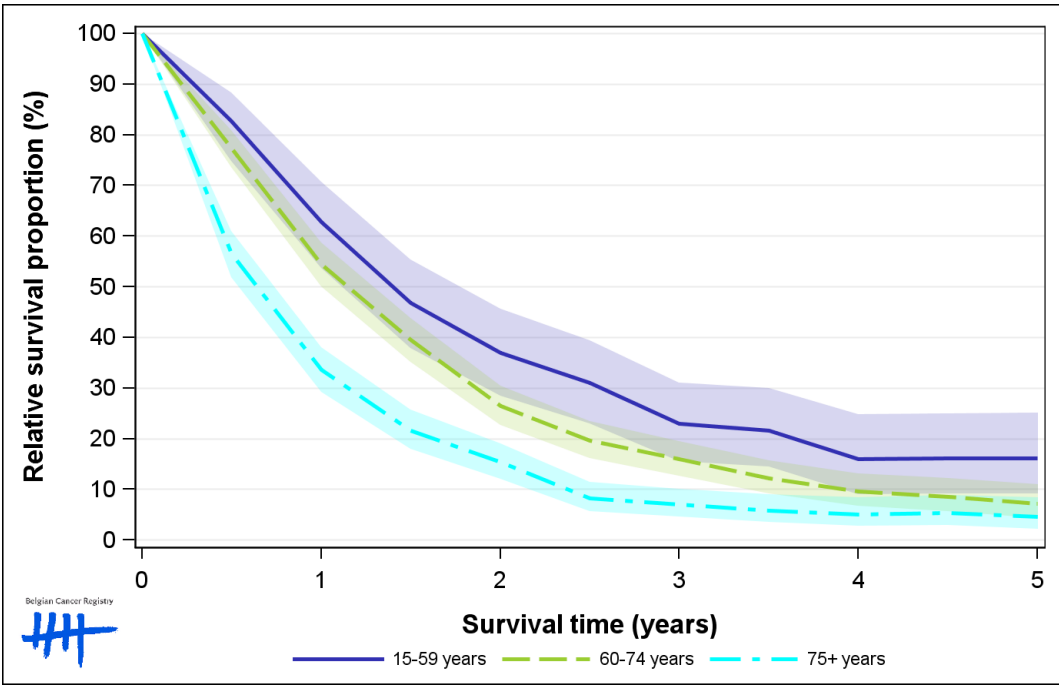


Figure 8: Mesothelioma: relative survival proportion by age group in females, Belgium 2012-2016

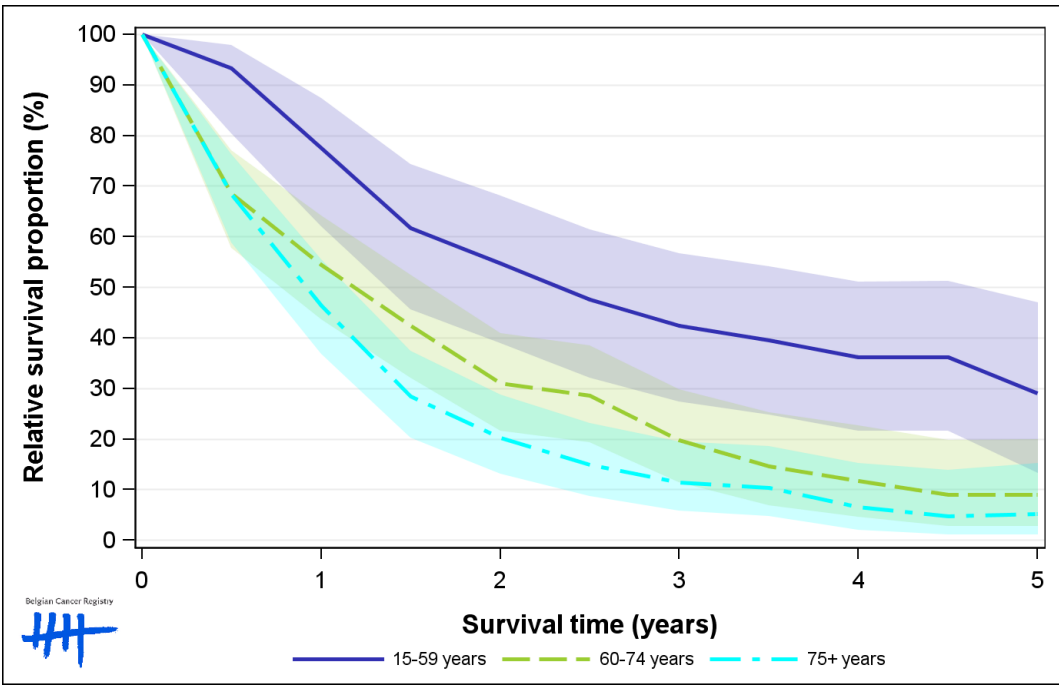


Figure 9: Mesothelioma: relative survival proportion by region in males, Belgium 2012-2016

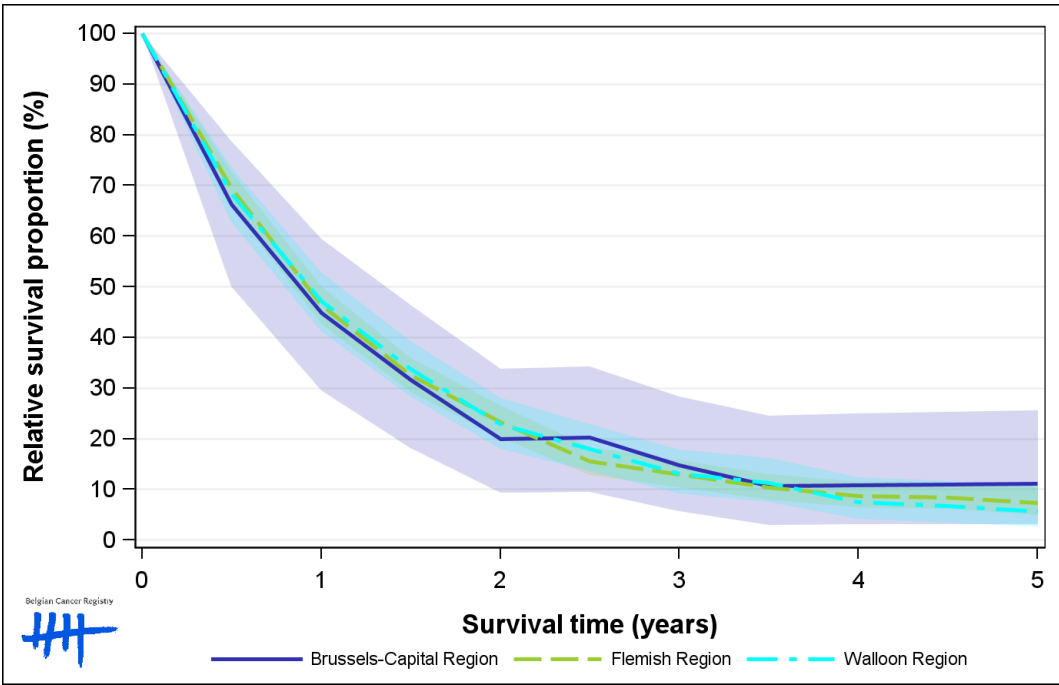


Figure 10: Mesothelioma: relative survival proportion by region in females, Belgium 2012-2016

