

Belgian Cancer Registry



Cancer Fact Sheet **Kidney Cancer**

ICD10 : C64

Belgium 2020

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Kidney 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, 2020

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	66.5	1,276	22.5	16.7	11.9	1.43
Brussels-Capital Region	64.6	79	13.2	13.5	9.7	1.22
Flemish Region	67.6	846	25.8	17.8	12.5	1.46
Walloon Region	64.4	351	19.7	15.4	11.1	1.42

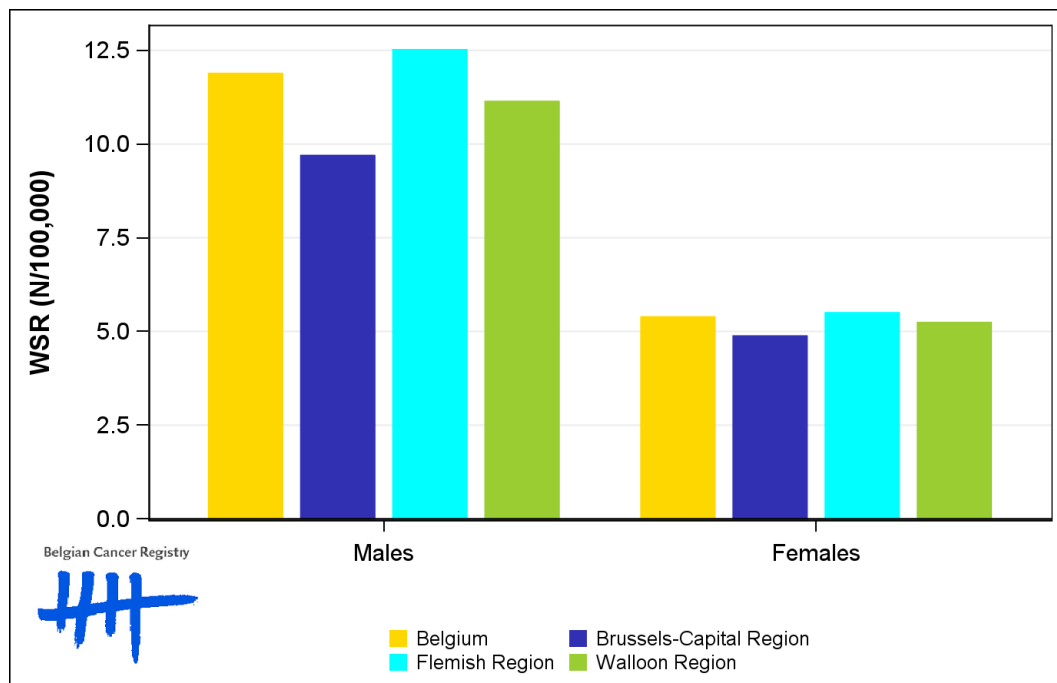
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	68.0	652	11.2	7.4	5.4	0.61
Brussels-Capital Region	64.4	48	7.7	6.6	4.9	0.47
Flemish Region	69.6	422	12.6	7.7	5.5	0.64
Walloon Region	65.1	182	9.8	7.0	5.2	0.59

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: Kidney Cancer: Age-standardised incidence rates by sex and region, 2020



1.2. Age-specific incidence rates

Table 2: Kidney Cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2020

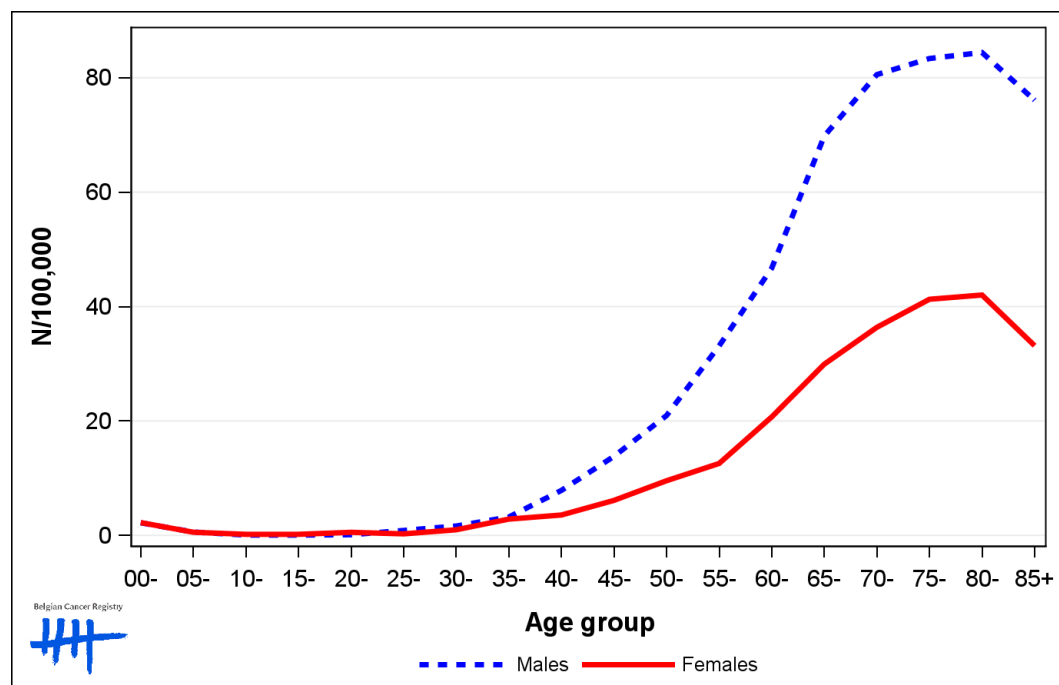
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	2.9	0.3	0.3	0.0	0.0	1.3	1.1	2.7	8.9	14.7	22.0	28.9	51.0	69.5	84.1	85.7	81.4	80.7	22.5	16.7	11.9
Females	3.0	0.3	0.3	0.0	0.6	0.0	1.3	1.1	4.1	6.6	12.8	11.3	16.6	32.7	31.1	37.5	45.5	33.5	11.2	7.4	5.4

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: Kidney Cancer: Age-specific incidence rates by sex, 2016-2020



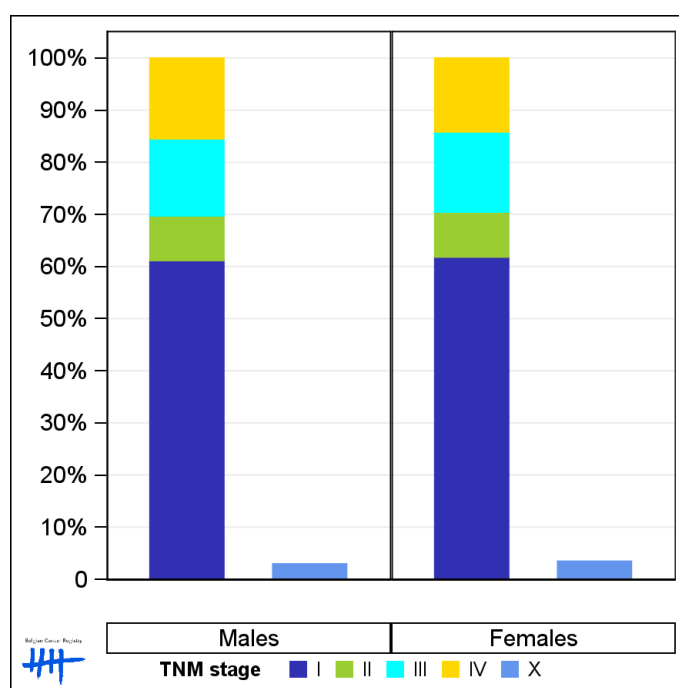
1.3. Combined stage

Table 3: Kidney Cancer: Distribution of combined stage by sex, Belgium 2020

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	748	105	181	189	37	16	1,276
%	58.6	8.2	14.2	14.8	2.9	1.3	100
Females							
N	381	53	95	87	22	14	652
%	58.4	8.1	14.6	13.3	3.4	2.1	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: Kidney Cancer: Bar chart of known combined stage by sex, Belgium 2020



1.4. Trends in incidence

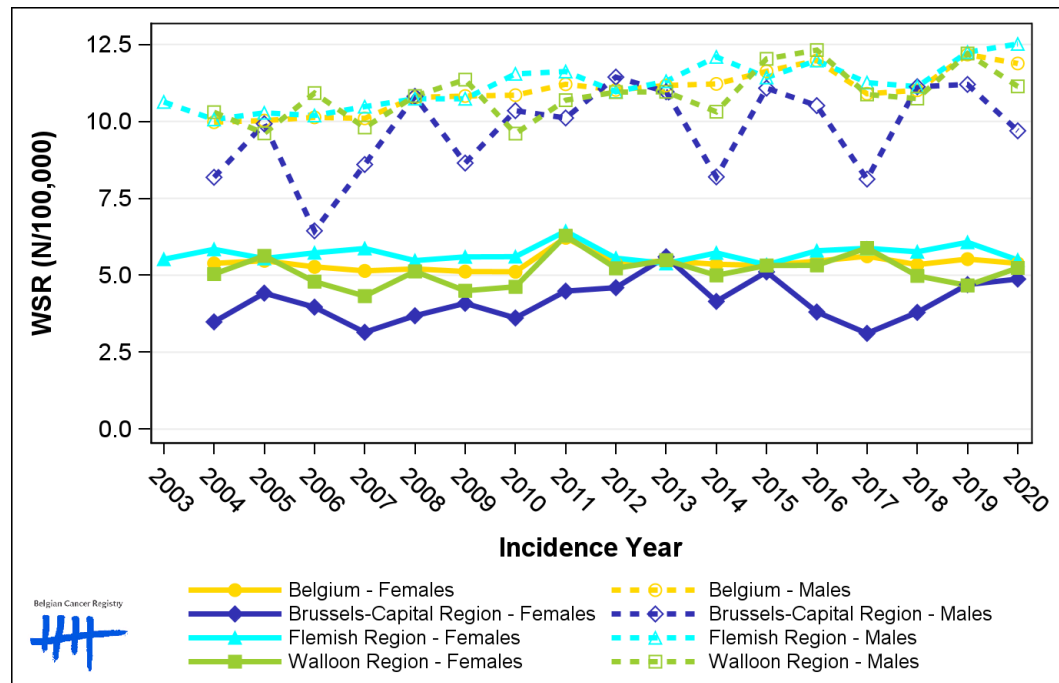
Table 4: Kidney Cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	AAPC	95% CI
Belgium	10.1	10.1	10.8	10.8	10.9	11.2	11.0	11.2	11.2	11.6	12.0	10.9	11.0	12.2	11.9	1.0	[0.6; 1.4]
Brussels-Capital Region	6.4	8.6	10.8	8.6	10.3	10.1	11.4	11.0	8.2	11.1	10.5	8.1	11.1	11.2	9.7	2.5	[0.5; 4.6]
Flemish Region	10.2	10.5	10.7	10.7	11.5	11.6	11.0	11.3	12.1	11.4	12.0	11.3	11.1	12.2	12.5	1.0	[0.6; 1.5]
Walloon Region	10.9	9.8	10.8	11.4	9.6	10.7	11.0	11.0	10.3	12.0	12.3	10.9	10.7	12.2	11.1	0.8	[-0.0; 1.6]

Females	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	AAPC	95% CI
Belgium	5.3	5.1	5.2	5.1	5.1	6.2	5.4	5.5	5.4	5.3	5.5	5.6	5.3	5.5	5.4	0.3	[-0.3; 1.0]
Brussels-Capital Region	4.0	3.1	3.7	4.1	3.6	4.5	4.6	5.6	4.2	5.1	3.8	3.1	3.8	4.7	4.9	1.2	[-1.0; 3.4]
Flemish Region	5.7	5.9	5.5	5.6	5.6	6.4	5.6	5.4	5.7	5.3	5.8	5.9	5.8	6.1	5.5	0.1	[-0.6; 0.7]
Walloon Region	4.8	4.3	5.1	4.5	4.6	6.3	5.2	5.5	5.0	5.3	5.3	5.9	5.0	4.7	5.2	0.5	[-0.7; 1.8]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
 AAPC = Average Annual Percentage Change over the 2006-2020 period

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



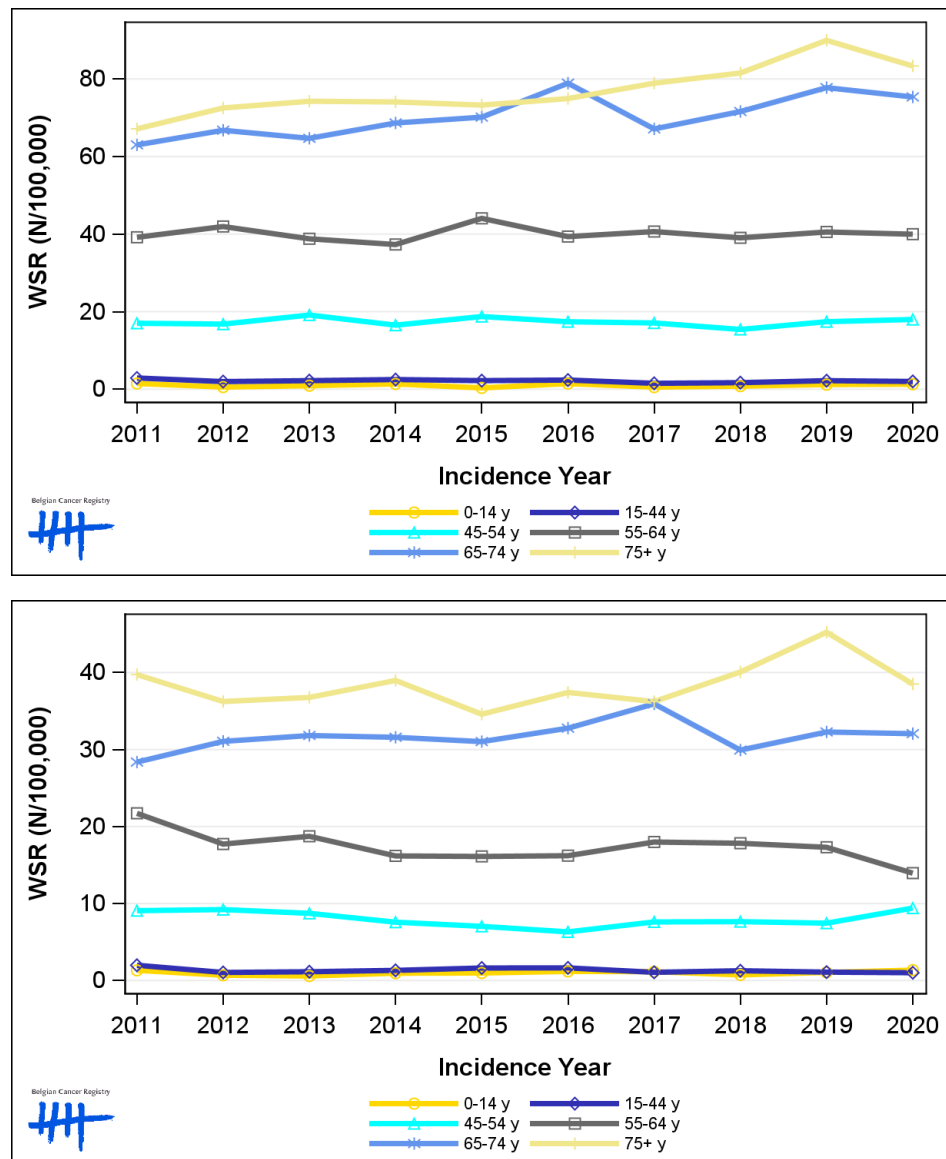
1.5. Incidence by broad age groups

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

	N										WSR									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Males																				
All ages	1,005	1,050	1,067	1,078	1,151	1,192	1,137	1,172	1,302	1,276	11.2	11.0	11.2	11.2	11.6	12.0	10.9	11.0	12.2	11.9
0-14 y	13	5	8	12	3	13	5	7	10	11	1.5	0.6	0.9	1.4	0.4	1.5	0.6	0.8	1.2	1.3
15-44 y	78	53	59	66	59	63	40	44	56	52	2.9	2.0	2.2	2.5	2.2	2.4	1.5	1.7	2.2	2.0
45-54 y	139	140	160	137	156	145	141	129	141	145	17.0	16.8	19.1	16.5	18.8	17.4	17.1	15.4	17.4	18.0
55-64 y	259	281	262	255	304	277	291	283	301	298	39.2	42.0	38.8	37.3	44.1	39.4	40.7	39.0	40.5	40.0
65-74 y	275	302	298	326	342	396	352	385	427	427	63.0	66.8	64.7	68.7	70.2	78.9	67.1	71.6	77.8	75.4
75+ y	241	269	280	282	287	298	308	324	367	343	67.1	72.5	74.3	74.1	73.3	74.9	78.9	81.5	90.0	83.3
Females																				
All ages	659	602	619	614	590	639	652	641	684	652	6.2	5.4	5.5	5.4	5.3	5.5	5.6	5.3	5.5	5.4
0-14 y	11	6	5	8	8	10	10	6	9	11	1.3	0.7	0.6	1.0	1.0	1.2	1.2	0.7	1.1	1.4
15-44 y	49	26	29	34	41	41	27	33	26	26	2.0	1.1	1.2	1.3	1.6	1.6	1.1	1.3	1.1	1.0
45-54 y	73	75	71	62	58	52	62	60	60	75	9.1	9.2	8.7	7.6	7.0	6.3	7.6	7.7	7.5	9.4
55-64 y	147	122	129	113	114	116	130	132	129	106	21.7	17.7	18.7	16.2	16.1	16.2	18.0	17.8	17.3	14.0
65-74 y	143	157	165	167	167	182	207	179	195	195	28.4	31.1	31.8	31.6	31.0	32.8	35.9	29.9	32.3	32.1
75+ y	236	216	220	230	202	238	216	231	265	239	39.7	36.2	36.8	39.0	34.6	37.4	36.2	40.1	45.2	38.5

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

Figure 5: Kidney 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: Kidney Cancer: 5-year relative survival proportion by sex, age group and region, Belgium 2016-2020

	5-year relative survival 2016-2020 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	5,886	78.0	[76.2, 79.8]	3,180	78.6	[76.2, 80.8]
Age group						
15-44 years	242	91.3	[85.6, 94.9]	152	96.5	[91.0, 98.8]
45-64 years	2,097	83.6	[81.3, 85.7]	909	84.4	[81.2, 87.2]
65+ years	3,548	73.3	[70.5, 76.0]	2,120	74.3	[70.9, 77.6]
Region						
Brussels-Capital Region	387	78.0	[70.8, 84.4]	192	85.6	[76.0, 93.3]
Flemish Region	3,772	78.1	[75.8, 80.2]	2,095	77.8	[74.8, 80.7]
Walloon Region	1,727	77.7	[74.2, 81.1]	893	78.9	[74.4, 83.0]

Figure 6: Kidney Cancer: relative survival proportion by sex, Belgium 2016-2020

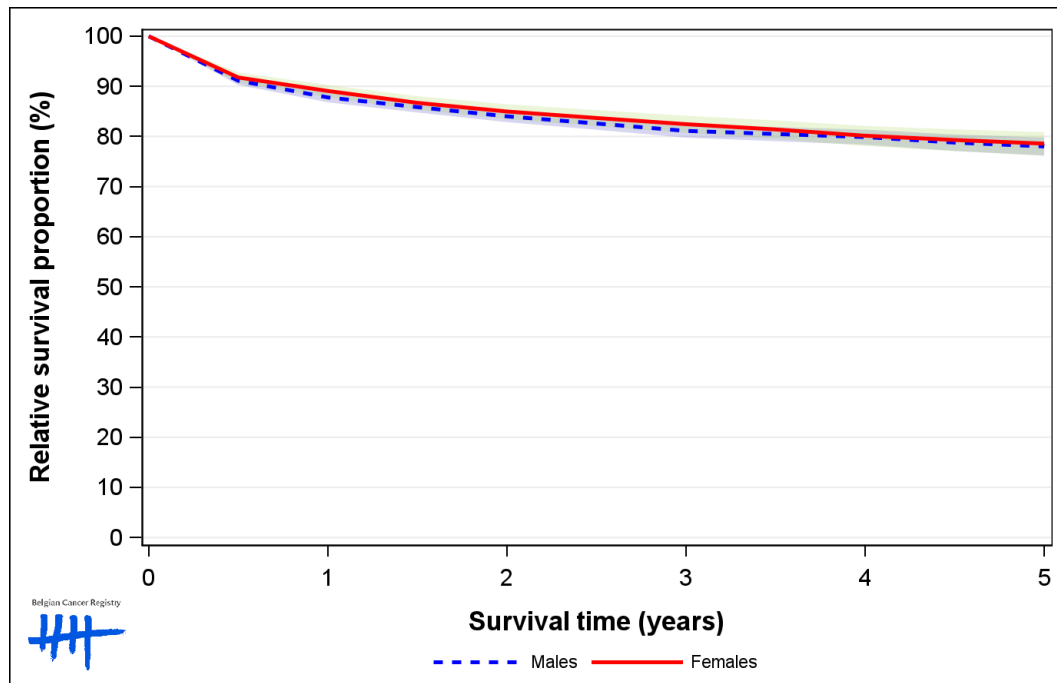


Figure 7: Kidney Cancer: relative survival proportion by age group in males, Belgium 2016-2020

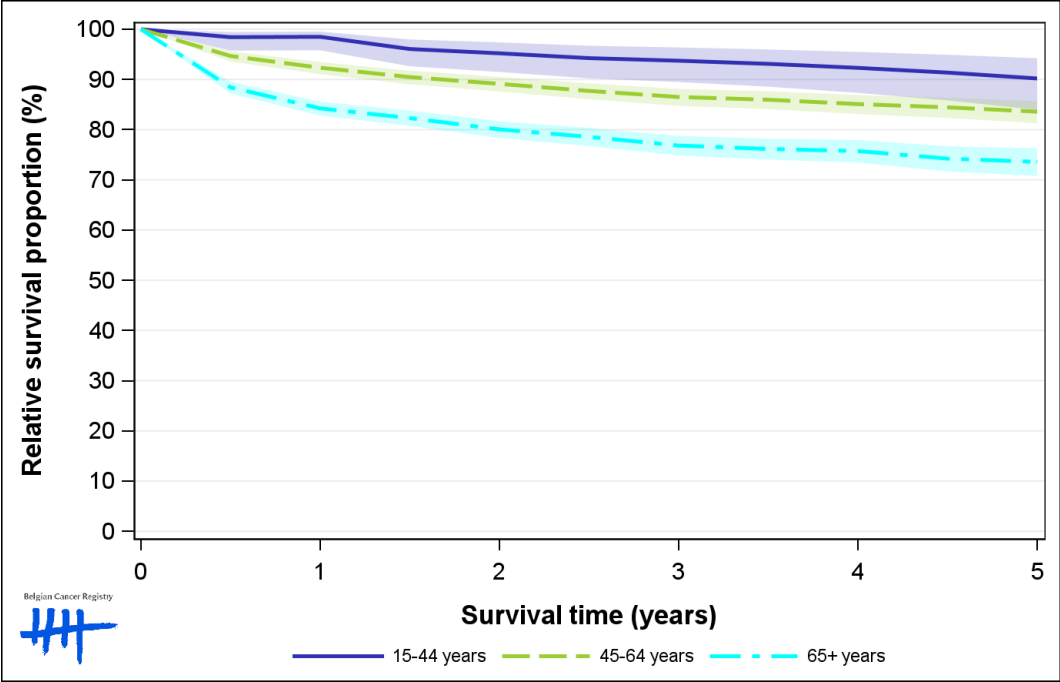


Figure 8: Kidney Cancer: relative survival proportion by age group in females, Belgium 2016-2020

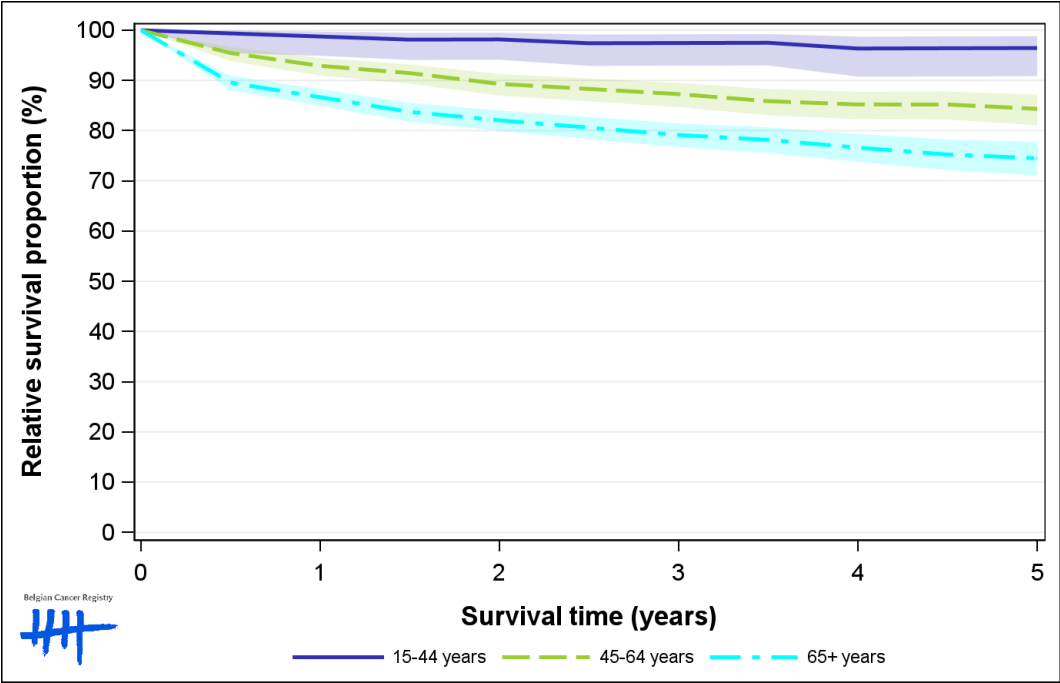


Figure 9: Kidney Cancer: relative survival proportion by region in males, Belgium 2016-2020

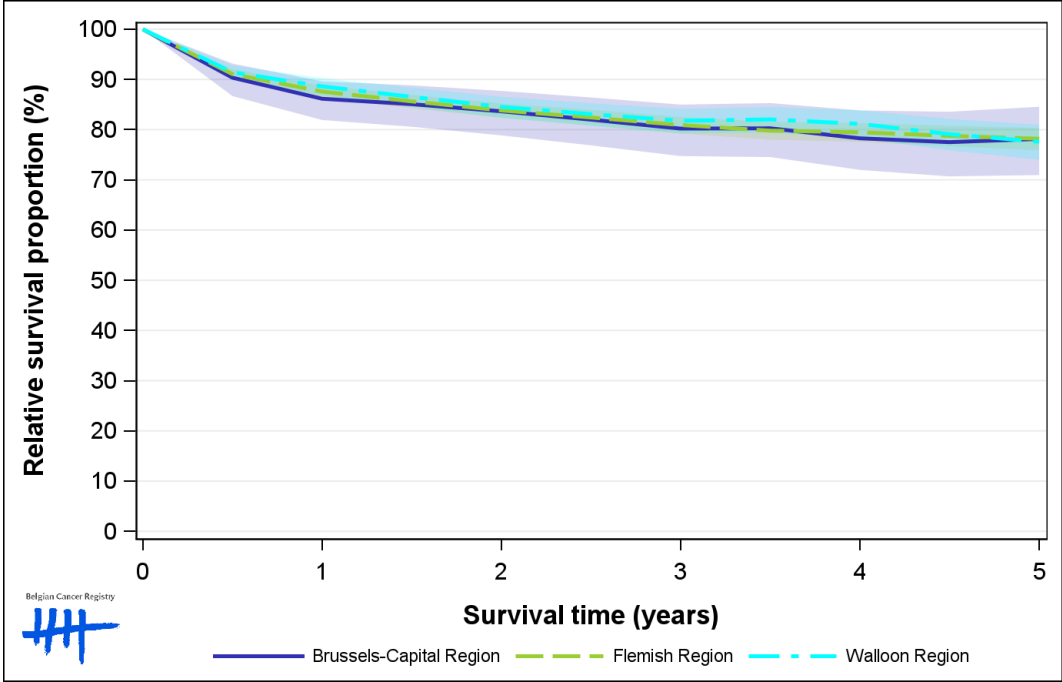


Figure 10: Kidney Cancer: relative survival proportion by region in females, Belgium 2016-2020

