



Belgian Cancer Registry



Cancer Fact Sheet **Kidney Cancer**

ICD10 : C64

Belgium 2018

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, 2018

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	66.7	1,161	20.7	15.6	10.9	1.32
Brussels-Capital Region	65.3	90	15.3	15.9	11.0	1.38
Flemish Region	67.5	736	22.7	15.8	11.0	1.33
Walloon Region	65.2	335	18.9	14.9	10.6	1.29

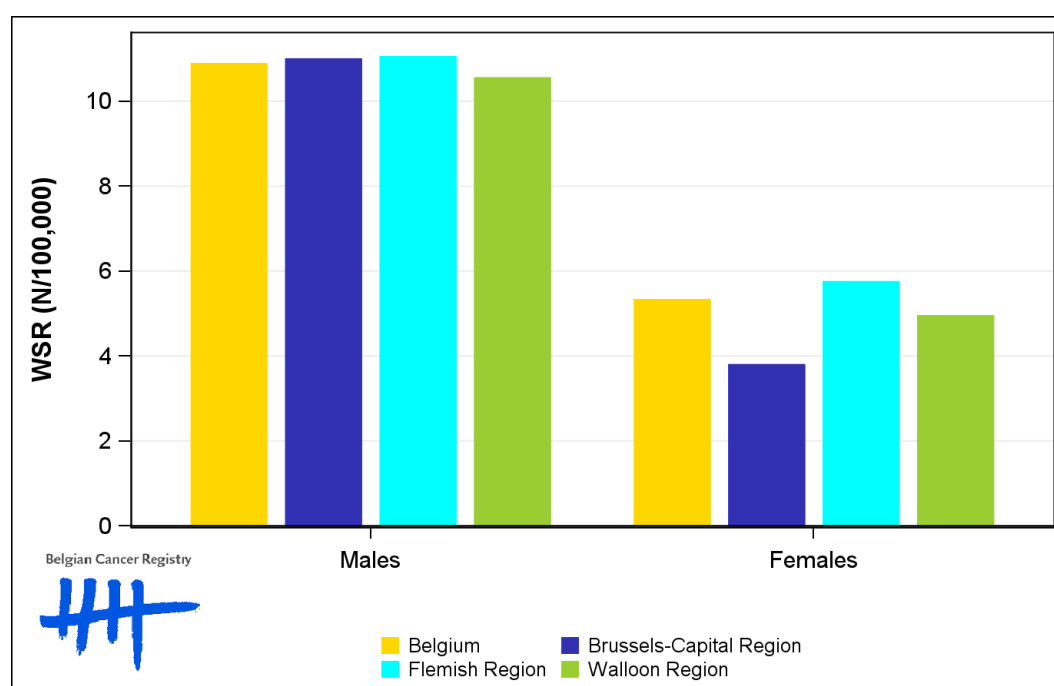
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	67.7	638	11.0	7.5	5.3	0.61
Brussels-Capital Region	64.0	37	6.0	5.5	3.8	0.47
Flemish Region	69.0	431	13.0	8.2	5.7	0.68
Walloon Region	65.2	170	9.2	6.6	4.9	0.54

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: Kidney Cancer: Age-standardised incidence rates by sex and region, 2018



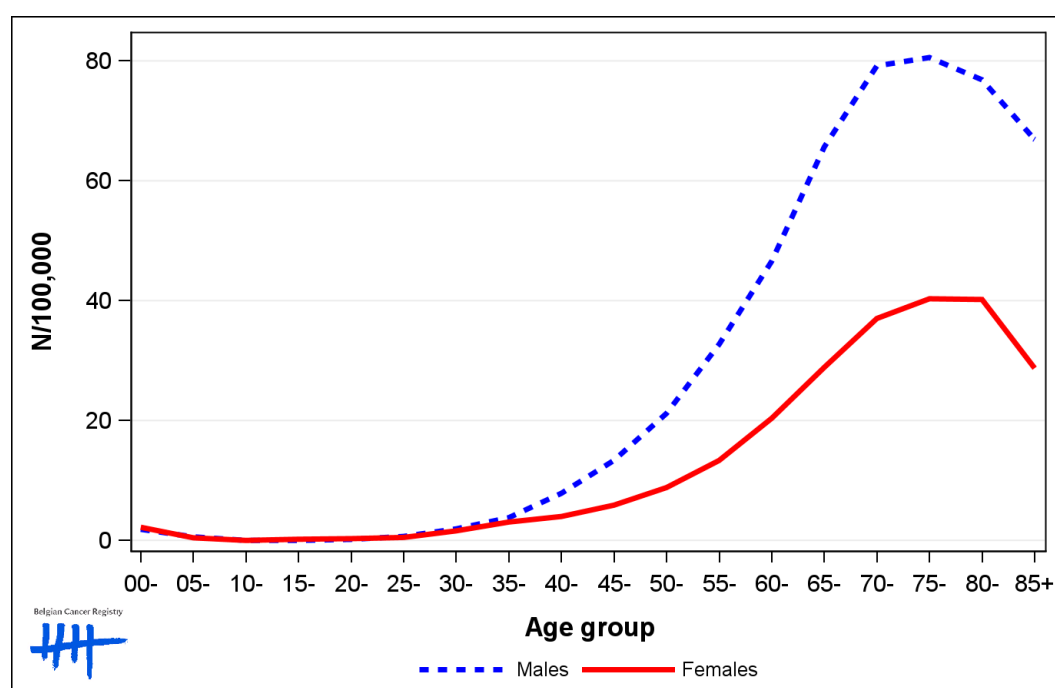
1.2. Age-specific incidence rates

Table 2: Kidney Cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2018

	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	1.6	0.6	0.0	0.0	0.3	0.5	2.2	2.7	5.7	10.6	21.0	31.8	44.6	69.8	74.4	82.2	85.3	74.1	20.7	15.6	10.9
Females	1.7	0.3	0.0	0.0	0.0	0.5	0.3	4.0	4.2	8.0	7.2	15.3	20.3	25.7	35.5	45.8	39.6	28.1	11.0	7.5	5.3

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: Kidney Cancer: Age-specific incidence rates by sex, 2014-2018



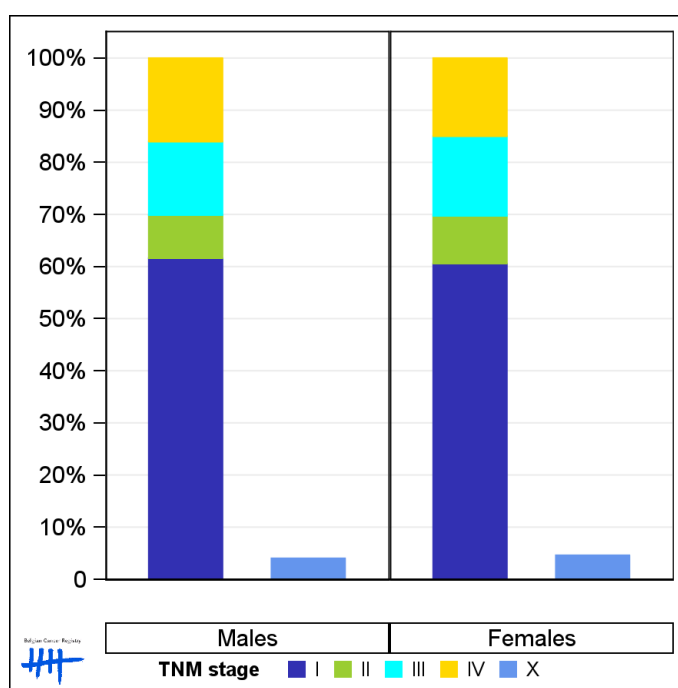
1.3. Combined stage

Table 3: Kidney Cancer: Distribution of combined stage by sex, Belgium 2018

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	677	91	155	176	46	16	1,161
%	58.3	7.8	13.4	15.2	4.0	1.4	100
Females							
N	364	55	92	90	29	8	638
%	57.1	8.6	14.4	14.1	4.5	1.3	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: Kidney Cancer: Bar chart of known combined stage by sex, Belgium 2018



1.4. Trends in incidence

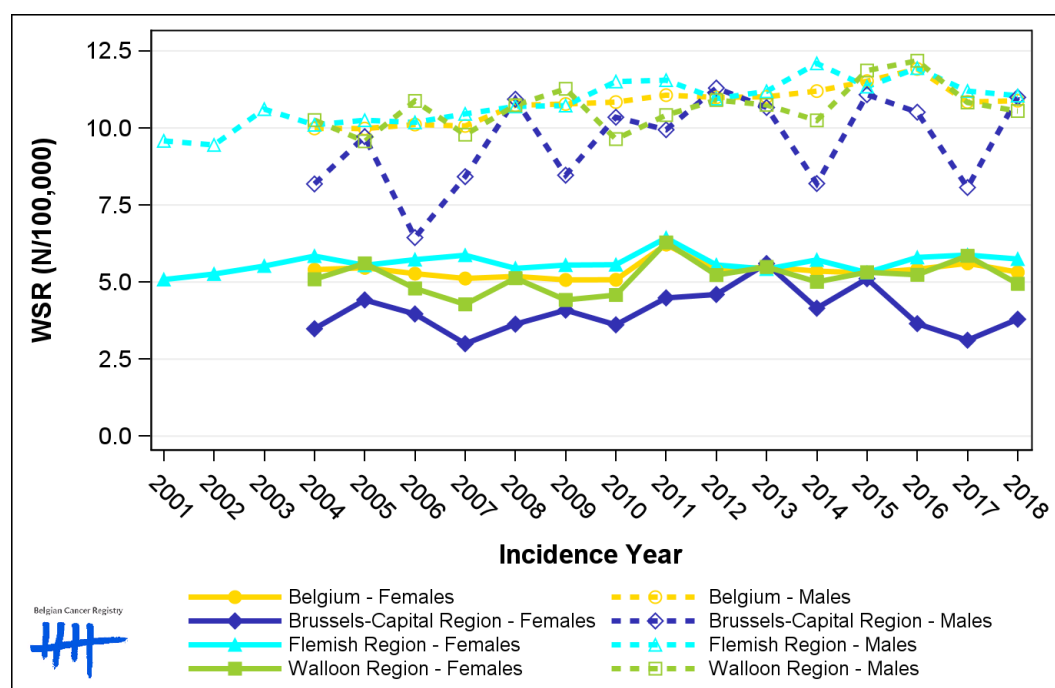
Table 4: Kidney Cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	AAPC	95% CI
Belgium	10.0	10.0	10.1	10.1	10.7	10.8	10.8	11.1	11.0	11.0	11.2	11.5	11.9	10.8	10.9	0.9	[0.5; 1.3]
Brussels-Capital Region	8.2	9.7	6.4	8.4	10.9	8.5	10.3	9.9	11.3	10.7	8.2	11.1	10.5	8.1	11.0	1.5	[-0.5; 3.5]
Flemish Region	10.1	10.3	10.2	10.5	10.7	10.7	11.5	11.6	11.0	11.2	12.1	11.3	11.9	11.2	11.0	1.0	[0.6; 1.4]
Walloon Region	10.3	9.6	10.9	9.8	10.7	11.3	9.6	10.4	10.9	10.7	10.2	11.9	12.2	10.8	10.6	0.8	[-0.0; 1.6]

Females	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	AAPC	95% CI
Belgium	5.4	5.5	5.3	5.1	5.2	5.1	5.1	6.2	5.4	5.5	5.4	5.3	5.4	5.6	5.3	0.2	[-0.4; 0.9]
Brussels-Capital Region	3.5	4.4	4.0	3.0	3.6	4.1	3.6	4.5	4.6	5.6	4.2	5.1	3.7	3.1	3.8	0.7	[-2.2; 3.7]
Flemish Region	5.8	5.5	5.7	5.9	5.4	5.6	5.6	6.4	5.6	5.4	5.7	5.3	5.8	5.9	5.7]-0.1;0[[-0.6; 0.6]
Walloon Region	5.1	5.6	4.8	4.3	5.1	4.4	4.6	6.3	5.2	5.5	5.0	5.3	5.2	5.9	4.9	0.7	[-0.6; 2.0]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
AAPC = Average Annual Percentage Change over the 2004-2018 period

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



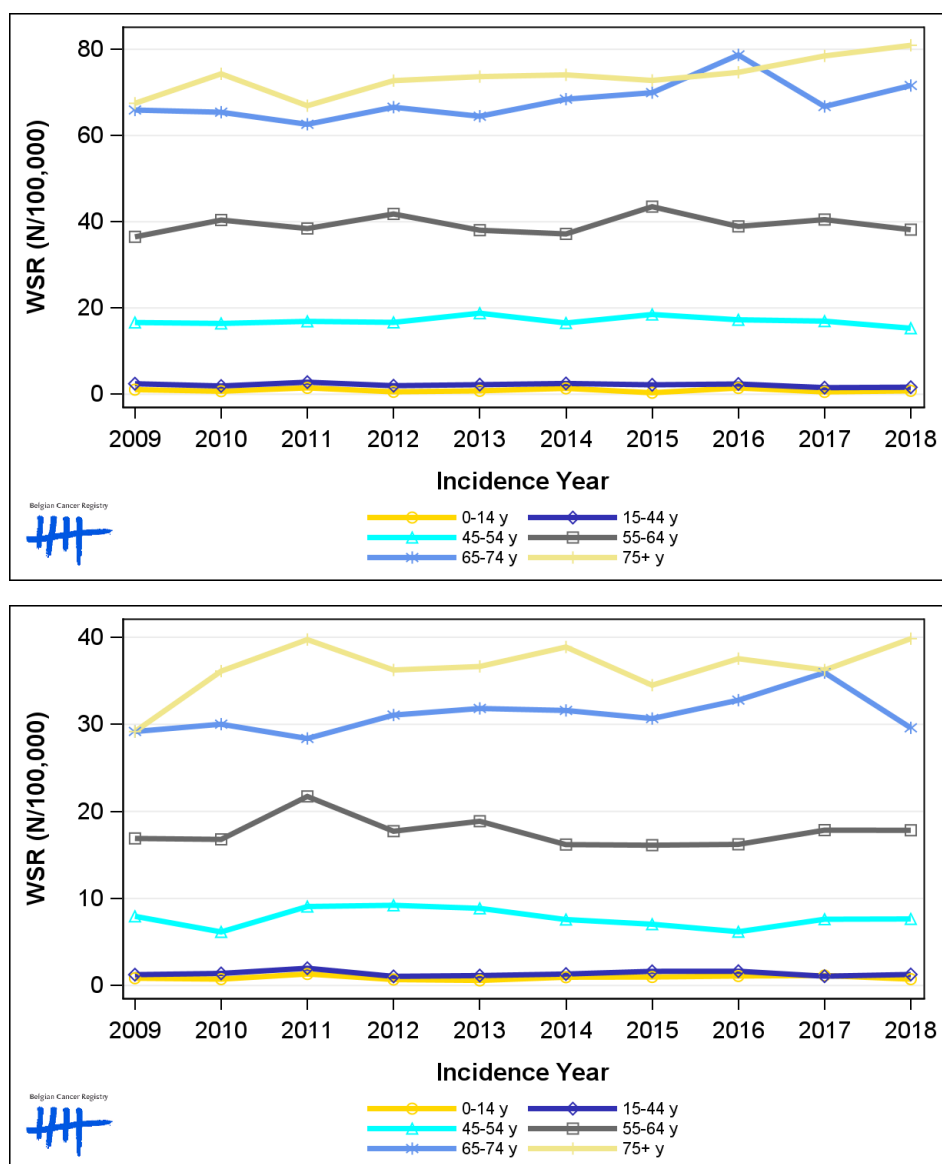
1.5. Incidence by broad age groups

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									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Males																				
All ages	957	993	993	1,048	1,055	1,076	1,141	1,186	1,131	1,161	10.8	10.8	11.1	11.0	11.0	11.2	11.5	11.9	10.8	10.9
0-14 y	9	6	13	5	7	12	3	13	5	7	1.1	0.7	1.5	0.6	0.8	1.4	0.4	1.5	0.6	0.8
15-44 y	65	52	75	53	59	66	58	63	40	42	2.4	1.9	2.8	2.0	2.2	2.5	2.2	2.4	1.5	1.6
45-54 y	134	133	138	139	157	137	154	144	140	128	16.6	16.4	16.9	16.7	18.8	16.5	18.5	17.3	17.0	15.3
55-64 y	230	261	254	280	257	254	300	274	290	277	36.5	40.4	38.4	41.8	38.0	37.2	43.5	38.9	40.5	38.2
65-74 y	284	277	273	301	297	325	341	395	350	385	65.9	65.4	62.6	66.6	64.5	68.4	69.9	78.7	66.7	71.6
75+ y	235	264	240	270	278	282	285	297	306	322	67.5	74.3	66.9	72.7	73.7	74.1	72.8	74.7	78.5	80.9
Females																				
All ages	525	557	659	602	620	614	588	638	651	638	5.1	5.1	6.2	5.4	5.5	5.4	5.3	5.4	5.6	5.3
0-14 y	7	6	11	6	5	8	8	9	10	6	0.8	0.7	1.3	0.7	0.6	1.0	1.0	1.1	1.2	0.7
15-44 y	31	35	49	26	29	34	41	41	27	33	1.3	1.4	2.0	1.1	1.2	1.3	1.6	1.6	1.1	1.3
45-54 y	63	50	73	75	72	62	58	51	62	60	8.0	6.2	9.1	9.2	8.9	7.6	7.0	6.2	7.6	7.7
55-64 y	109	111	147	122	130	113	114	116	129	132	16.9	16.8	21.7	17.7	18.9	16.2	16.1	16.2	17.9	17.8
65-74 y	144	151	143	157	165	167	165	182	207	177	29.2	30.0	28.4	31.1	31.8	31.6	30.7	32.8	35.9	29.6
75+ y	171	204	236	216	219	230	202	239	216	230	29.2	36.1	39.7	36.2	36.6	38.9	34.5	37.5	36.2	39.8

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 2014-2018

	5-year relative survival 2014-2018 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	5,524	76.7	[74.9, 78.5]	3,043	78.6	[76.3, 81.0]
Age group						
15-44 years	258	92.5	[87.4, 95.8]	175	95.5	[90.9, 98.0]
45-64 years	2,049	82.0	[79.7, 84.2]	879	85.2	[82.1, 88.0]
65+ years	3,218	71.4	[68.6, 74.3]	1,989	73.7	[70.3, 77.1]
Region						
Brussels-Capital Region	369	80.2	[72.8, 86.7]	184	75.7	[65.3, 84.5]
Flemish Region	3,540	75.4	[73.1, 77.7]	1,983	77.8	[74.8, 80.7]
Walloon Region	1,615	78.6	[75.3, 81.9]	876	81.2	[76.8, 85.2]

Figure 6: Kidney Cancer: relative survival proportion by sex, Belgium 2014-2018

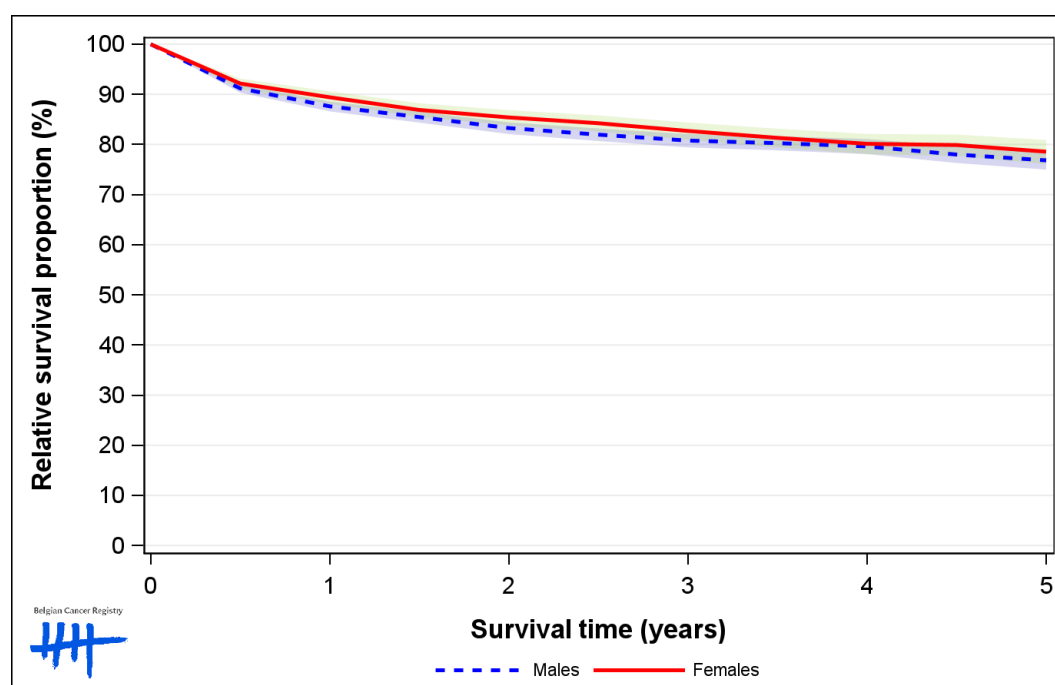


Figure 7: Kidney Cancer: relative survival proportion by age group in males, Belgium 2014-2018

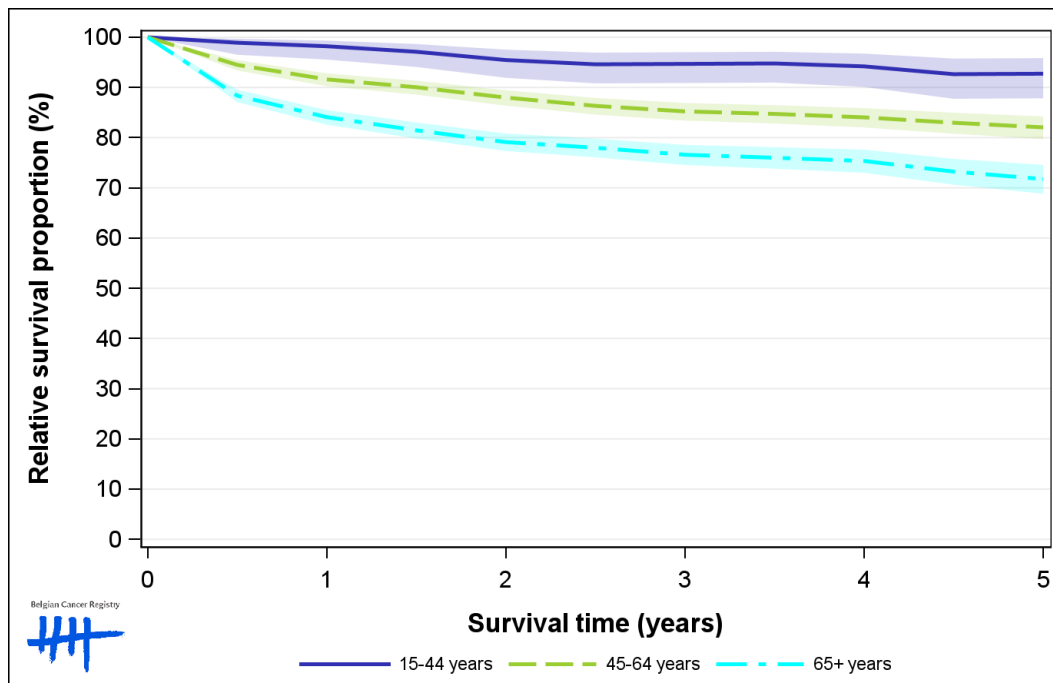


Figure 8: Kidney Cancer: relative survival proportion by age group in females, Belgium 2014-2018

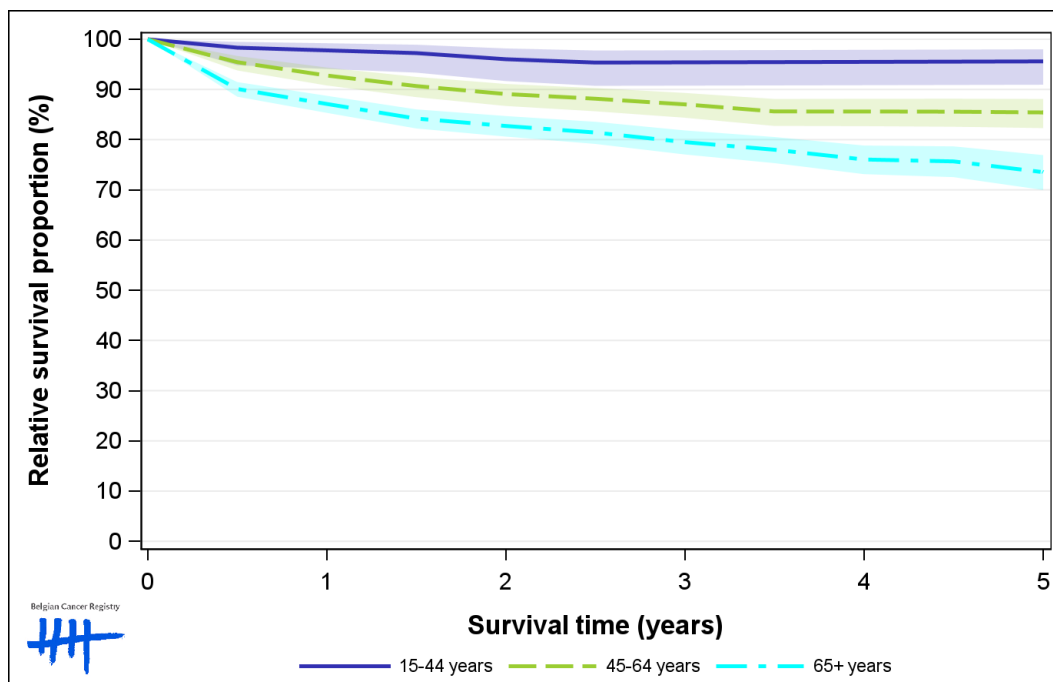


Figure 9: Kidney Cancer: relative survival proportion by region in males, Belgium 2014-2018

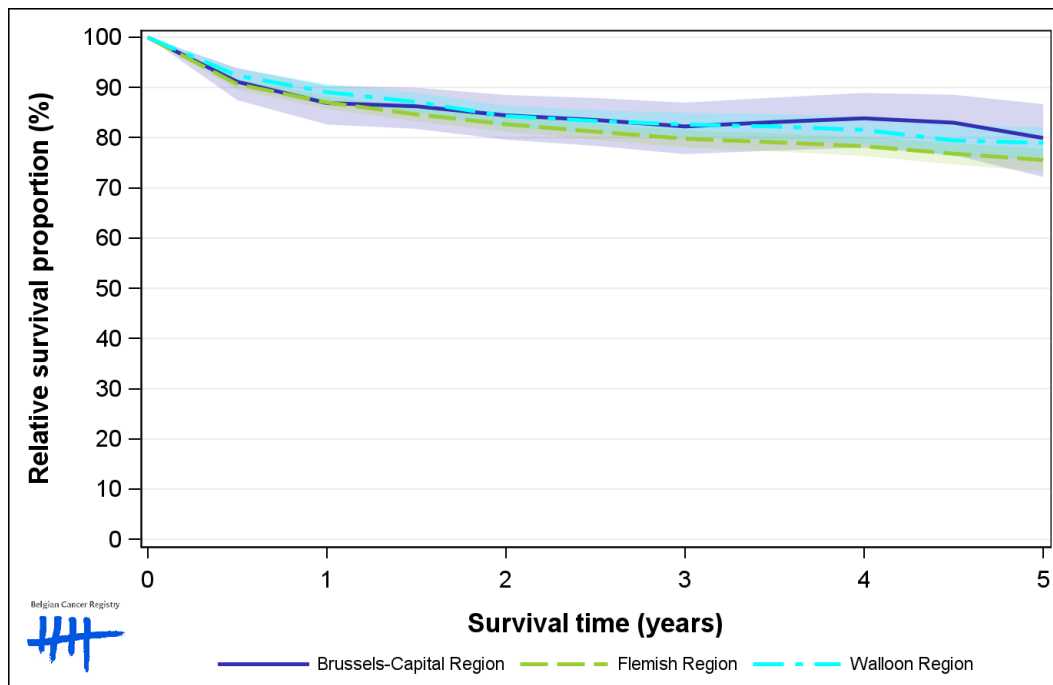


Figure 10: Kidney Cancer: relative survival proportion by region in females, Belgium 2014-2018

