

Belgian Cancer Registry



Cancer Fact Sheet **Kidney Cancer**

ICD10 : C64

Belgium 2021

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, 2021

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	66.3	1,297	22.8	16.9	11.9	1.42
Brussels-Capital Region	63.1	84	14.0	14.6	10.2	1.27
Flemish Region	67.2	791	24.0	16.6	11.6	1.35
Walloon Region	65.2	422	23.6	18.1	12.8	1.59

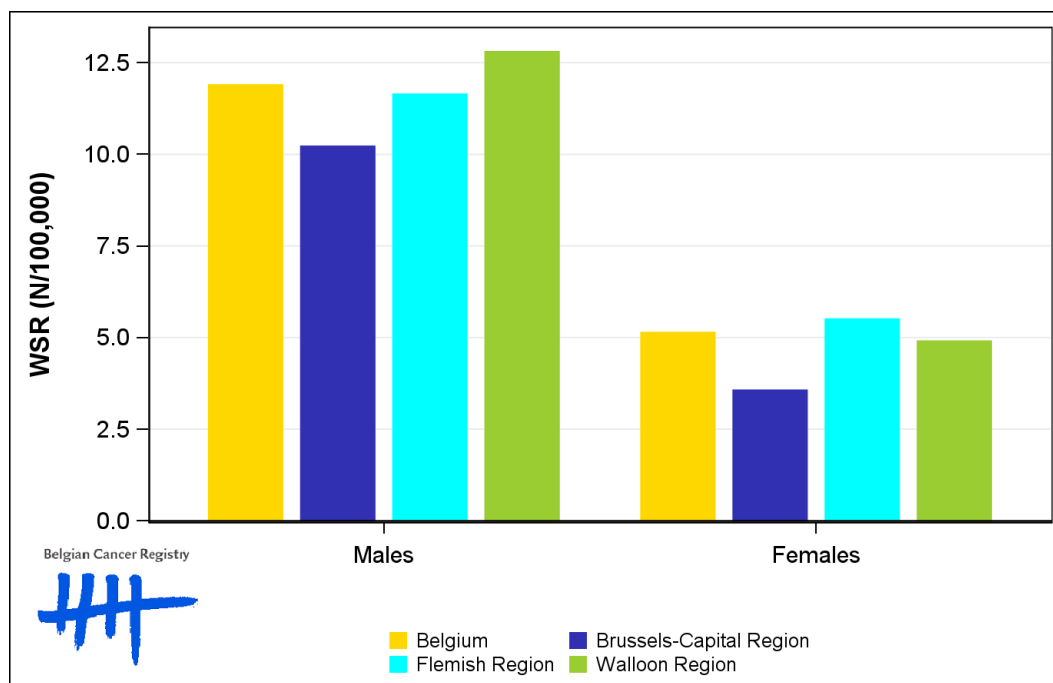
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	68.5	655	11.2	7.3	5.1	0.58
Brussels-Capital Region	67.8	40	6.4	5.1	3.6	0.35
Flemish Region	68.8	418	12.4	7.8	5.5	0.62
Walloon Region	68.1	197	10.6	7.0	4.9	0.56

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, 2021



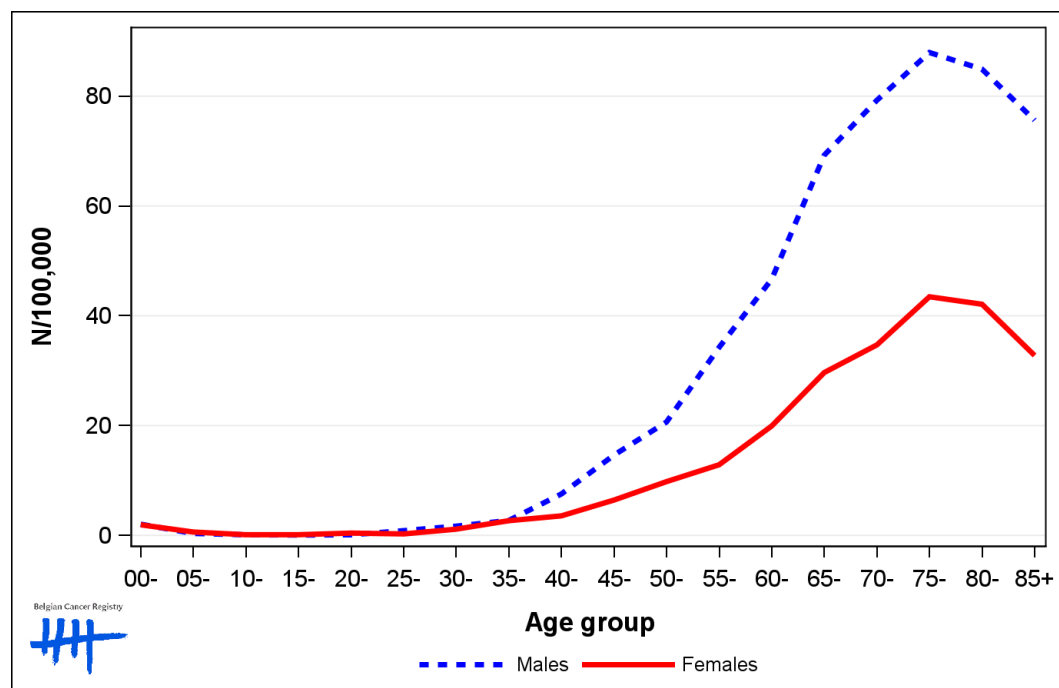
1.2. Age-specific incidence rates

Table 2: Kidney Cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2021

	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	2.0	0.0	0.3	0.0	0.0	0.5	2.4	2.4	7.7	18.1	20.3	38.7	45.4	70.8	77.3	94.1	82.7	68.3	22.8	16.9	11.9
Females	1.0	0.6	0.0	0.0	0.0	0.5	2.9	3.0	3.8	6.2	9.8	14.0	16.4	26.7	30.7	42.7	49.7	33.1	11.2	7.3	5.1

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, 2017-2021



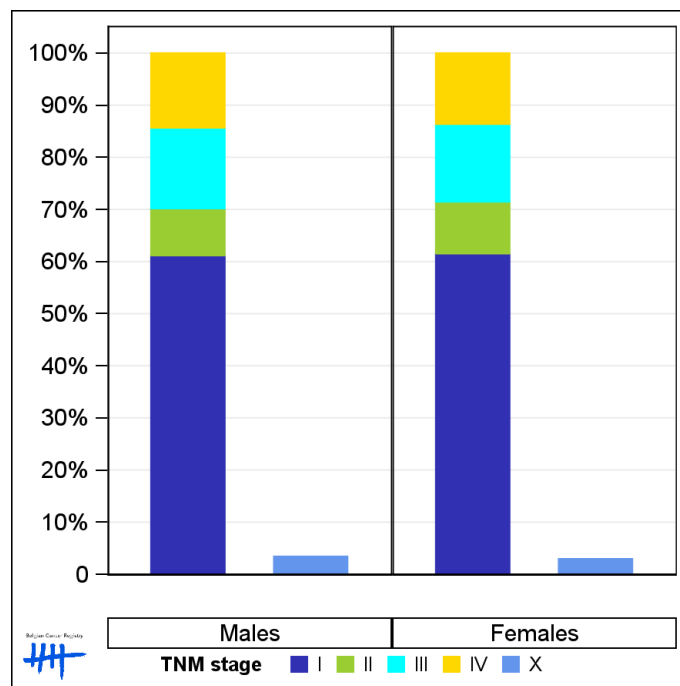
1.3. Combined stage

Table 3: Kidney Cancer: Distribution of combined stage by sex, Belgium 2021

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	759	112	192	178	44	12	1,297
%	58.5	8.6	14.8	13.7	3.4	0.9	100
Females							
N	384	62	93	85	19	12	655
%	58.6	9.5	14.2	13.0	2.9	1.8	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 2021



1.4. Trends in incidence

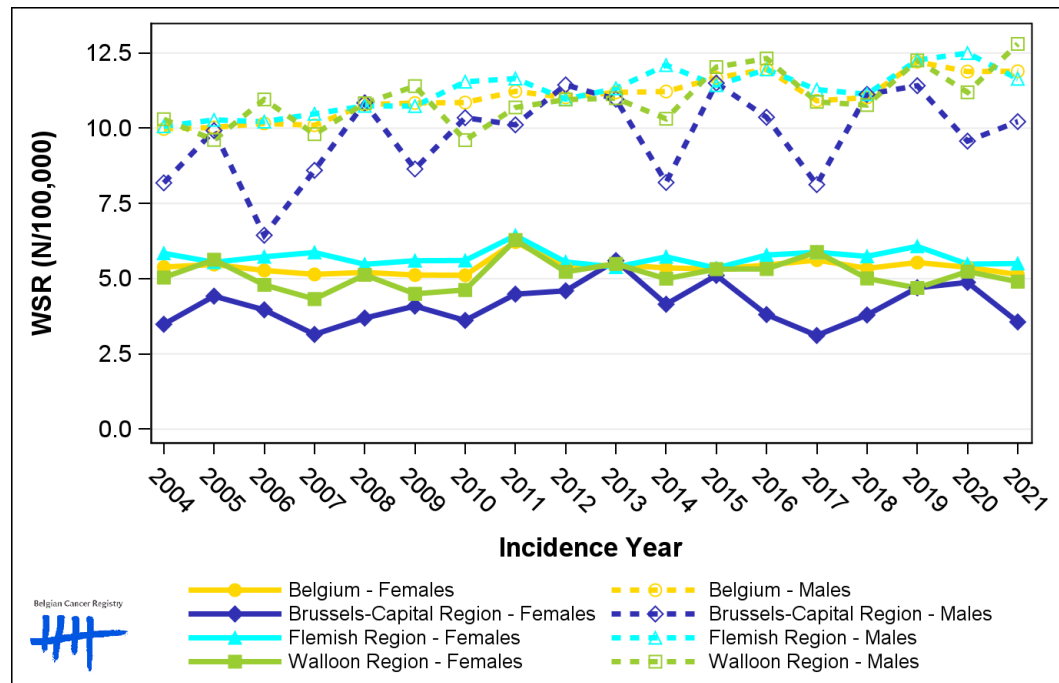
Table 4: Kidney Cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC	95% CI
Belgium	10.1	10.8	10.8	10.9	11.2	11.0	11.2	11.2	11.7	12.0	10.9	11.0	12.2	11.9	11.9	0.9	[0.5; 1.3]
Brussels-Capital Region	8.6	10.8	8.6	10.3	10.1	11.4	11.0	8.2	11.5	10.4	8.1	11.1	11.4	9.6	10.2	0.5	[-1.1; 2.1]
Flemish Region	10.5	10.7	10.7	11.5	11.7	11.0	11.3	12.1	11.4	12.0	11.3	11.1	12.3	12.5	11.6	0.8	[0.3; 1.3]
Walloon Region	9.8	10.8	11.4	9.6	10.7	11.0	11.0	10.3	12.0	12.3	10.9	10.8	12.3	11.2	12.8	1.2	[0.3; 2.0]

Females	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC	95% CI
Belgium	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	5.1	0.2	[-0.5; 0.8]
Brussels-Capital Region	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	3.6	0.9	[-1.1; 3.0]
Flemish Region	5.9	5.5	5.6	5.6	6.4	5.6	5.4	5.7	5.4	5.8	5.9	5.7	6.1	5.5	5.5]-0.1;0[[-0.7; 0.6]
Walloon Region	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	4.9	0.5	[-0.7; 1.7]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
 AAPC = Average Annual Percentage Change over the 2007-2021 period

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



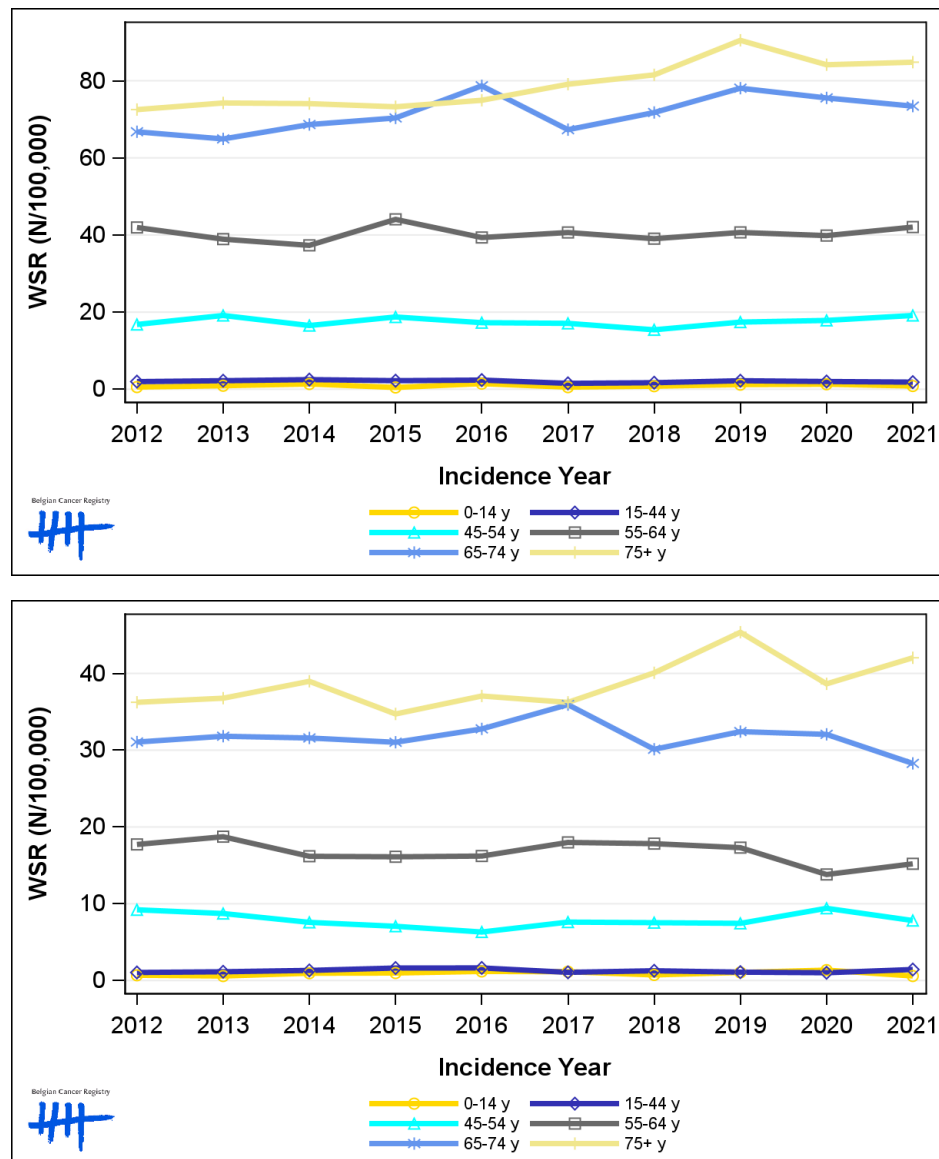
1.5. Incidence by broad age groups

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										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Males																						
All ages	1,050	1,069	1,078	1,153	1,190	1,139	1,173	1,307	1,278	1,297	11.0	11.2	11.2	11.7	12.0	10.9	11.0	12.2	11.9	11.9		
0-14 y	5	8	12	4	13	5	7	10	11	7	0.6	0.9	1.4	0.5	1.5	0.6	0.8	1.2	1.3	0.8		
15-44 y	53	59	66	59	63	40	44	56	52	49	2.0	2.2	2.5	2.2	2.4	1.5	1.7	2.2	2.0	1.8		
45-54 y	140	160	137	156	144	141	129	141	144	150	16.8	19.1	16.5	18.8	17.3	17.1	15.4	17.4	17.9	19.1		
55-64 y	281	263	255	304	277	291	283	302	297	321	42.0	38.9	37.3	44.1	39.4	40.7	39.0	40.7	39.8	42.1		
65-74 y	302	299	326	343	395	353	386	429	428	422	66.8	64.9	68.7	70.4	78.7	67.3	71.8	78.1	75.6	73.4		
75+ y	269	280	282	287	298	309	324	369	346	348	72.5	74.3	74.1	73.3	74.9	79.1	81.5	90.5	84.2	84.8		
Females																						
All ages	602	619	614	591	637	652	641	685	652	655	5.4	5.5	5.4	5.3	5.5	5.6	5.3	5.5	5.4	5.1		
0-14 y	6	5	8	8	10	10	6	9	11	5	0.7	0.6	1.0	1.0	1.2	1.2	0.7	1.1	1.4	0.6		
15-44 y	26	29	34	41	41	27	33	26	26	38	1.1	1.2	1.3	1.6	1.6	1.1	1.3	1.1	1.0	1.4		
45-54 y	75	71	62	58	52	62	59	60	75	61	9.2	8.7	7.6	7.1	6.3	7.6	7.5	7.5	9.4	7.8		
55-64 y	122	129	113	114	116	130	132	129	105	117	17.7	18.7	16.2	16.1	16.2	18.0	17.8	17.3	13.8	15.2		
65-74 y	157	165	167	167	182	207	180	196	195	178	31.1	31.8	31.6	31.0	32.8	35.9	30.1	32.4	32.1	28.3		
75+ y	216	220	230	203	236	216	231	265	240	256	36.2	36.8	39.0	34.7	37.1	36.2	40.1	45.4	38.6	42.0		

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 2017-2021

	5-year relative survival 2017-2021 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	6,006	77.8	[76.0, 79.6]	3,192	78.2	[75.9, 80.5]
Age group						
15-44 years	233	91.0	[84.7, 94.9]	147	97.1	[90.0, 99.4]
45-64 years	2,144	83.6	[81.3, 85.7]	915	84.2	[80.9, 87.0]
65+ years	3,631	73.2	[70.4, 75.8]	2,131	74.1	[70.8, 77.2]
Region						
Brussels-Capital Region	397	77.0	[69.9, 83.3]	190	85.2	[75.8, 92.6]
Flemish Region	3,811	77.2	[74.9, 79.4]	2,094	77.9	[75.0, 80.7]
Walloon Region	1,799	79.3	[75.8, 82.6]	908	77.6	[73.1, 81.8]

Figure 6: Kidney Cancer: relative survival proportion by sex, Belgium 2017-2021

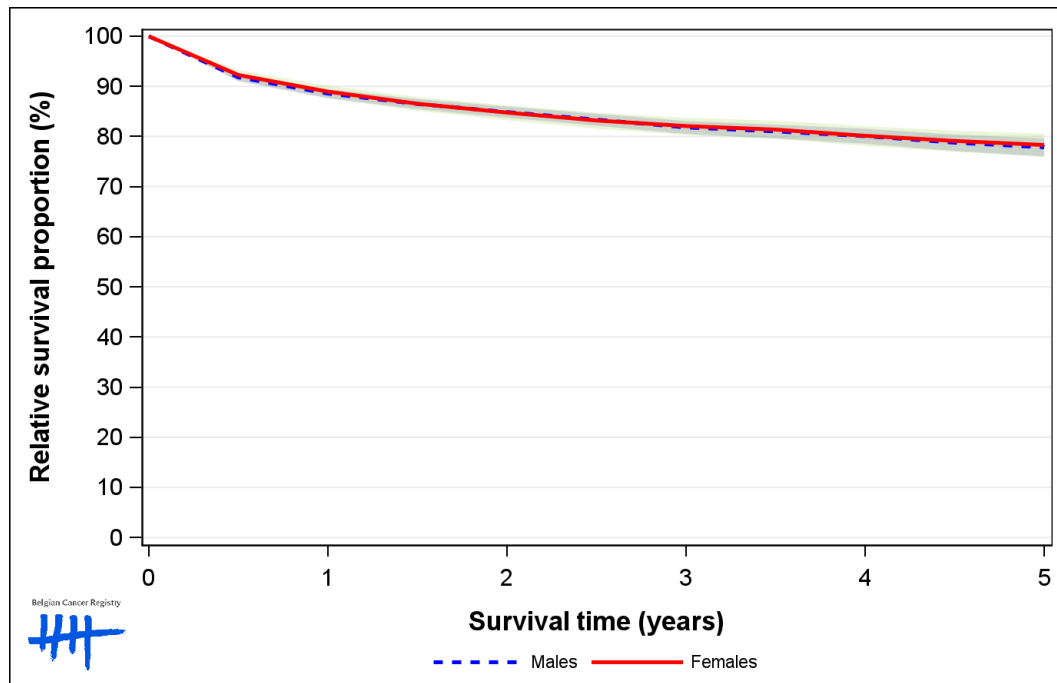


Figure 7: Kidney Cancer: relative survival proportion by age group in males, Belgium 2017-2021

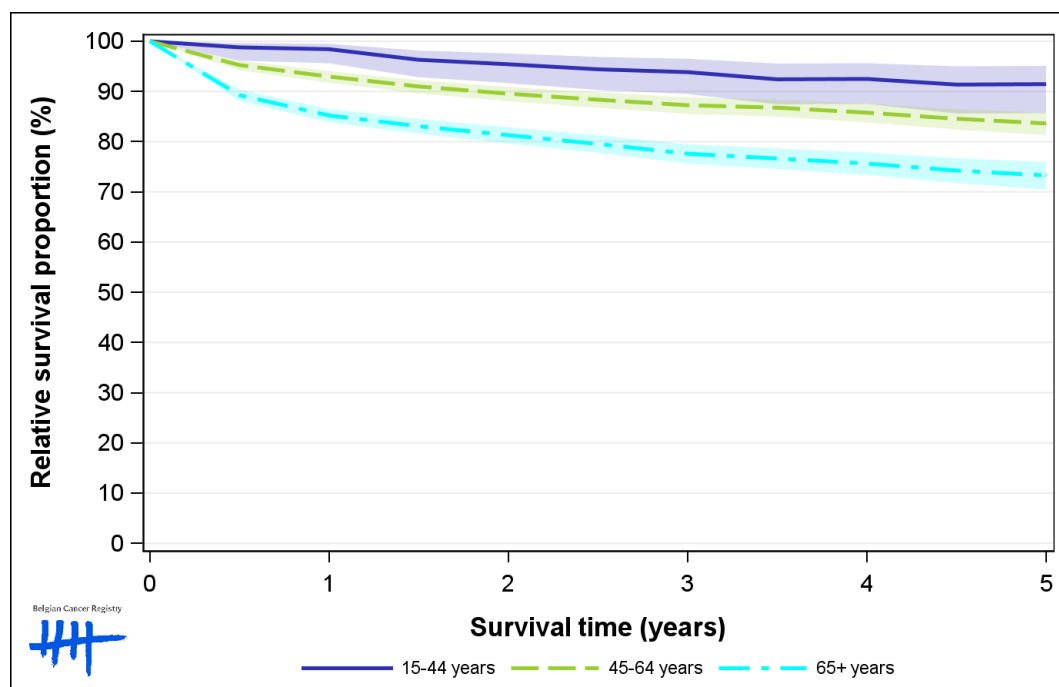


Figure 8: Kidney Cancer: relative survival proportion by age group in females, Belgium 2017-2021

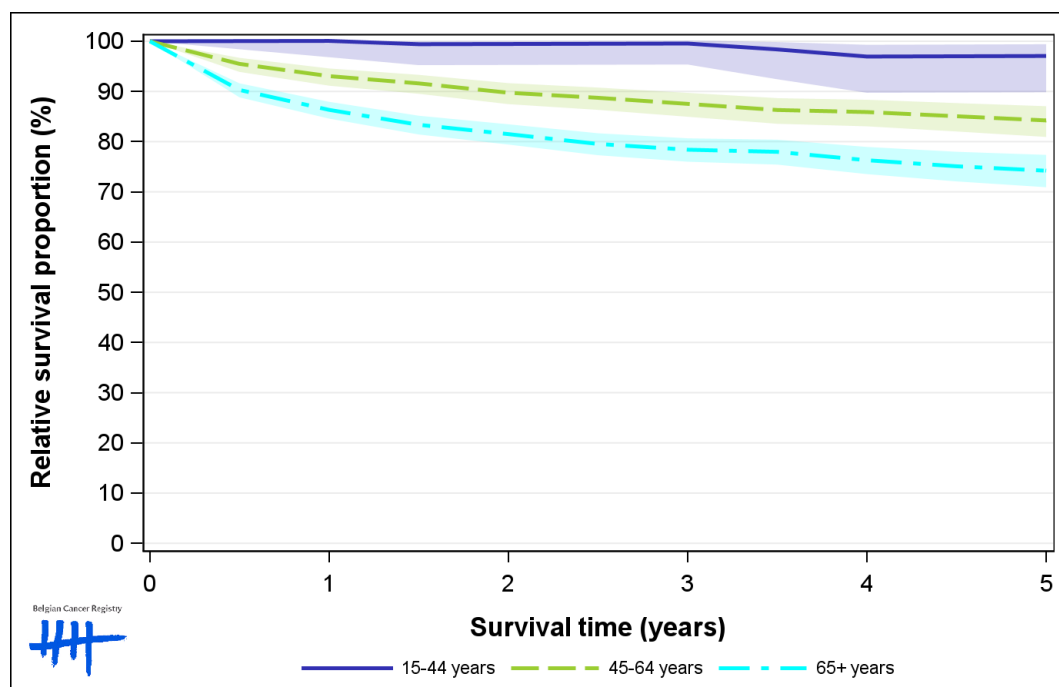


Figure 9: Kidney Cancer: relative survival proportion by region in males, Belgium 2017-2021

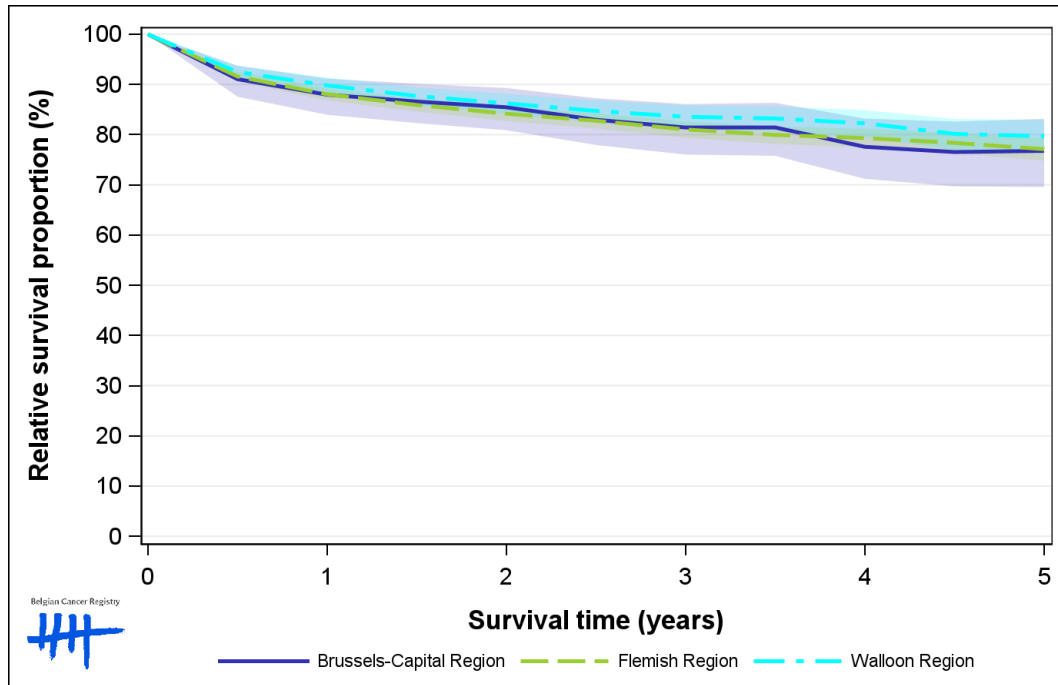


Figure 10: Kidney Cancer: relative survival proportion by region in females, Belgium 2017-2021

