

Belgian Cancer Registry



# Cancer Fact Sheet **Kidney Cancer**

ICD10 : C64

**Belgium 2017**

# 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, 2017

Males	Age (years)	N	CR	ESR	WSR	CRi
<b>Belgium</b>	<b>66.2</b>	<b>1,122</b>	<b>20.2</b>	<b>15.4</b>	<b>10.8</b>	<b>1.31</b>
Brussels-Capital Region	63.6	63	10.8	11.6	8.1	1.07
Flemish Region	67.4	732	22.7	16.1	11.1	1.32
Walloon Region	64.1	327	18.5	15.0	10.8	1.34

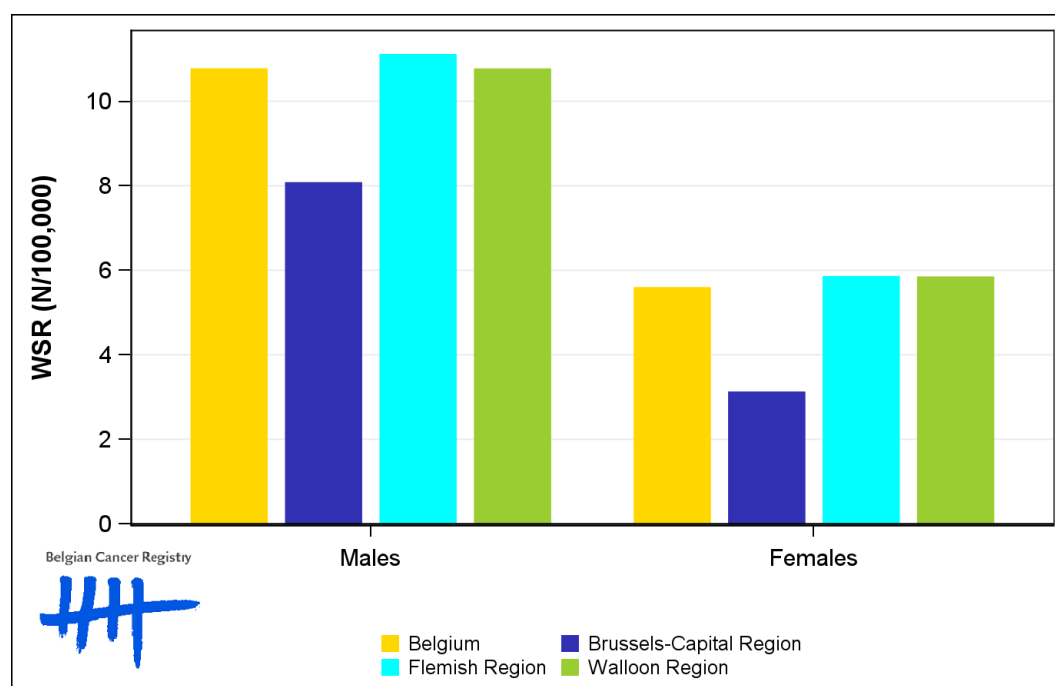
Females	Age (years)	N	CR	ESR	WSR	CRi
<b>Belgium</b>	<b>67.7</b>	<b>647</b>	<b>11.2</b>	<b>7.7</b>	<b>5.6</b>	<b>0.67</b>
Brussels-Capital Region	68.1	30	4.9	4.3	3.1	0.39
Flemish Region	68.5	413	12.5	8.1	5.8	0.70
Walloon Region	66.0	204	11.0	7.9	5.8	0.71

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, 2017



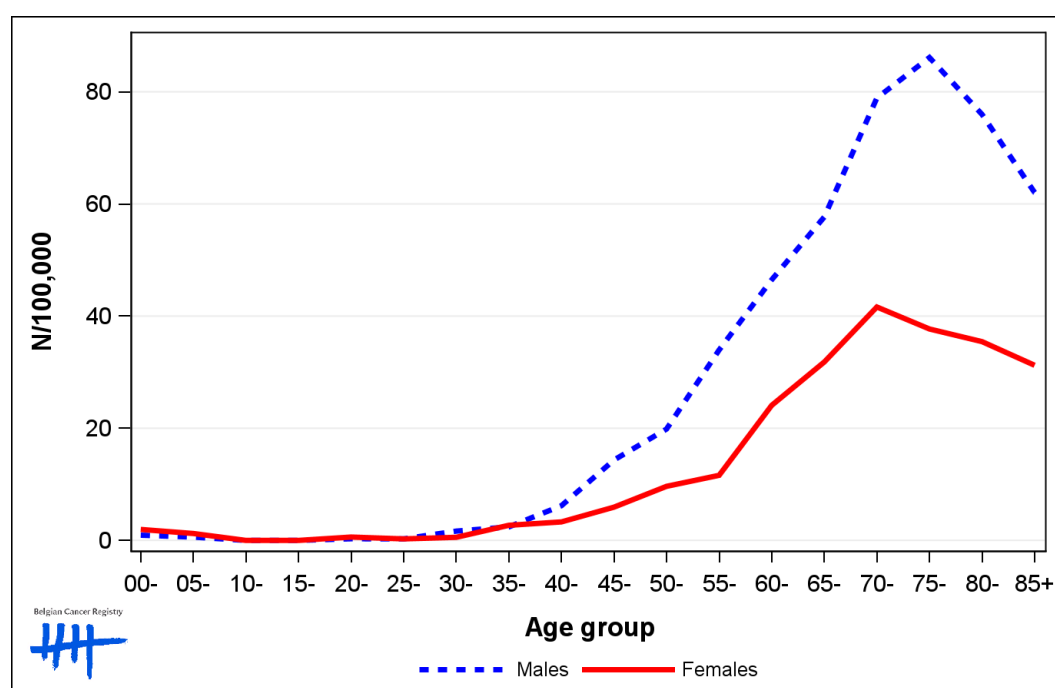
## 1.2. Age-specific incidence rates

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

	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	0.9	0.6	0.0	0.0	0.3	0.3	1.7	2.4	6.2	14.3	19.9	34.0	46.5	57.7	78.9	86.1	76.0	62.1	20.2	15.4	10.8
Females	2.0	1.2	0.0	0.0	0.6	0.3	0.6	2.7	3.3	5.9	9.6	11.6	24.1	31.8	41.6	37.7	35.5	31.2	11.2	7.7	5.6

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, 2017



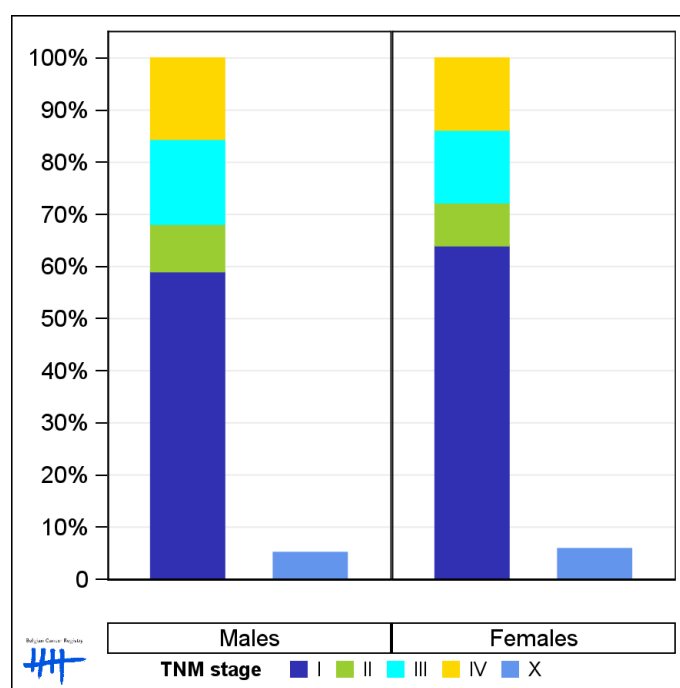
### 1.3. Combined stage

**Table 3:** Kidney Cancer: Distribution of combined stage by sex, Belgium 2017

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
<b>Males</b>							
N	623	96	172	164	57	10	1,122
%	55.5	8.6	15.3	14.6	5.1	0.9	100
<b>Females</b>							
N	381	49	83	82	37	15	647
%	58.9	7.6	12.8	12.7	5.7	2.3	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 2017



## 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

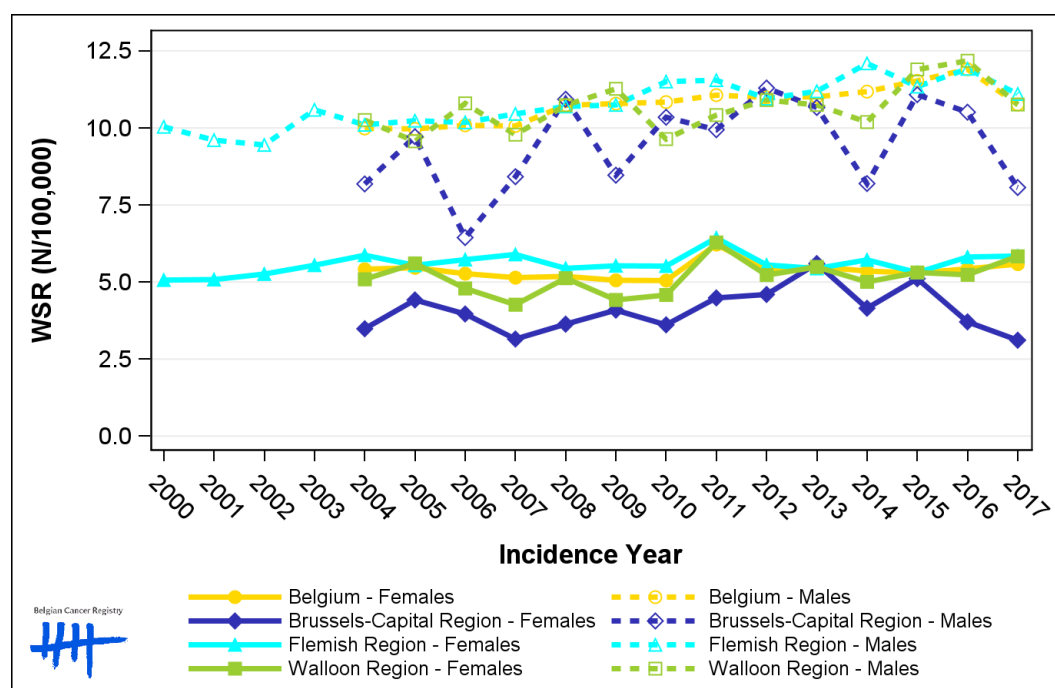
Males	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	AAPC	95% CI
<b>Belgium</b>	<b>10.0</b>	<b>10.0</b>	<b>10.1</b>	<b>10.1</b>	<b>10.1</b>	<b>10.7</b>	<b>10.8</b>	<b>10.8</b>	<b>11.1</b>	<b>11.0</b>	<b>11.0</b>	<b>11.2</b>	<b>11.5</b>	<b>11.9</b>	<b>10.8</b>	<b>1.1</b>	<b>[0.7; 1.5]</b>
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	1.3	[-1.0; 3.7]	
Flemish Region	10.6	10.1	10.2	10.2	10.5	10.7	10.7	11.5	11.6	11.0	11.2	12.1	11.3	11.9	11.1	1.0	[0.6; 1.5]
Walloon Region	10.3	9.6	10.8	9.8	10.7	11.3	9.6	10.4	10.9	10.7	10.2	11.9	12.2	10.8	1.0	[0.1; 1.9]	

Females	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	AAPC	95% CI
<b>Belgium</b>	<b>5.4</b>	<b>5.5</b>	<b>5.3</b>	<b>5.1</b>	<b>5.2</b>	<b>5.1</b>	<b>5.0</b>	<b>6.2</b>	<b>5.4</b>	<b>5.5</b>	<b>5.4</b>	<b>5.3</b>	<b>5.4</b>	<b>5.6</b>	<b>0.3</b>	<b>[-0.5; 1.0]</b>	
Brussels-Capital Region	3.5	4.4	4.0	3.2	3.6	4.1	3.6	4.5	4.6	5.6	4.2	5.1	3.7	3.1	0.9	[-2.2; 4.2]	
Flemish Region	5.5	5.9	5.5	5.7	5.9	5.4	5.5	5.5	6.4	5.6	5.4	5.7	5.3	5.8	5.8	0.1	[-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	5.8	0.9	[-0.5; 2.4]	

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



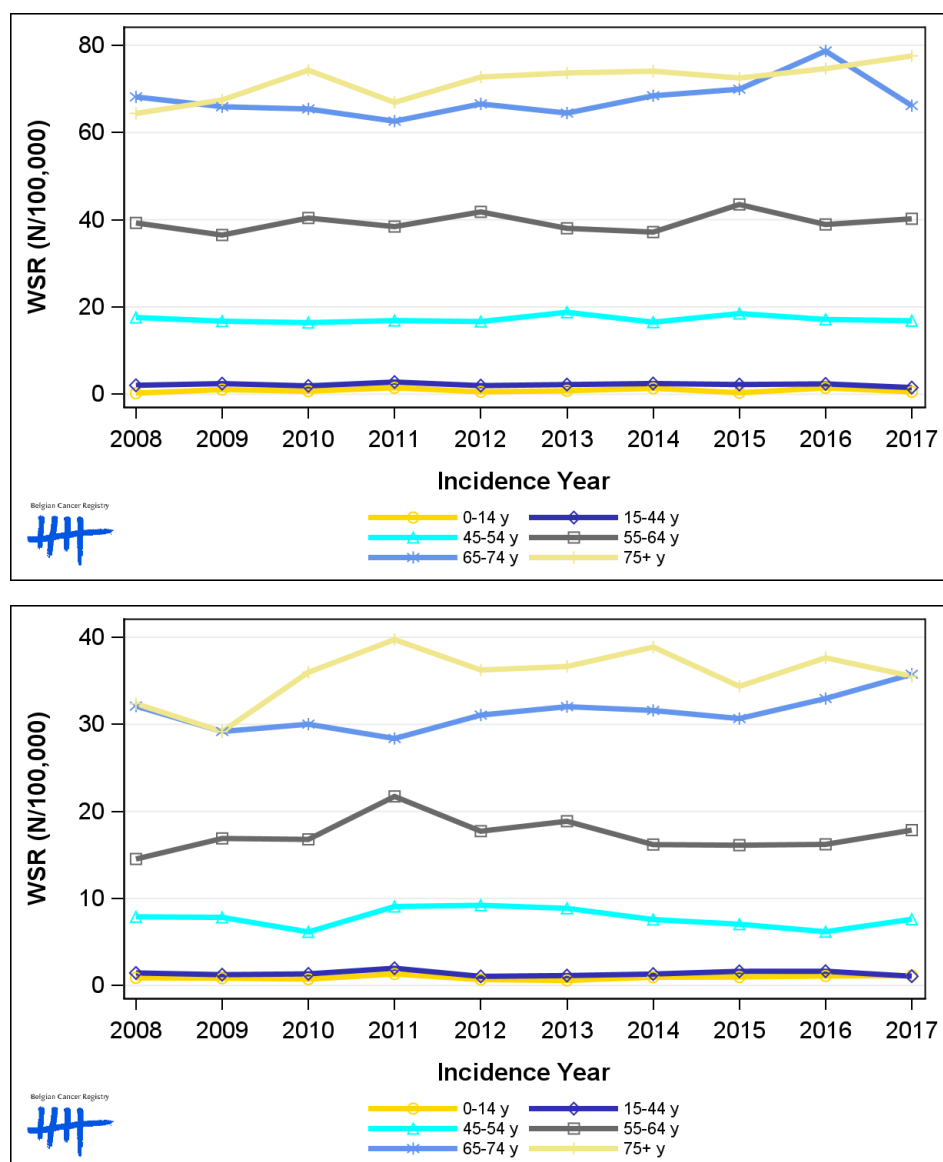
## 1.5. Incidence by broad age groups

**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									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Males</b>																				
All ages	949	958	993	993	1,048	1,055	1,075	1,141	1,185	1,122	10.7	10.8	10.8	11.1	11.0	11.0	11.2	11.5	11.9	10.8
0-14 y	2	9	6	13	5	7	12	3	13	5	0.3	1.1	0.7	1.5	0.6	0.8	1.4	0.4	1.5	0.6
15-44 y	55	65	52	75	53	59	65	59	63	40	2.1	2.4	1.9	2.8	2.0	2.2	2.5	2.2	2.4	1.5
45-54 y	138	135	133	138	139	157	137	154	143	139	17.6	16.8	16.4	16.9	16.7	18.8	16.5	18.5	17.2	16.8
55-64 y	243	230	261	254	280	257	254	300	274	288	39.3	36.5	40.4	38.4	41.8	38.0	37.2	43.5	38.9	40.2
65-74 y	289	284	277	273	301	297	325	341	395	347	68.2	65.9	65.4	62.6	66.6	64.5	68.4	69.9	78.7	66.2
75+ y	222	235	264	240	270	278	282	284	297	303	64.4	67.5	74.3	66.9	72.7	73.7	74.1	72.5	74.7	77.6
<b>Females</b>																				
All ages	543	524	555	659	602	621	614	587	639	647	5.2	5.1	5.0	6.2	5.4	5.5	5.4	5.3	5.4	5.6
0-14 y	7	7	6	11	6	5	8	8	9	10	0.9	0.8	0.7	1.3	0.7	0.6	1.0	1.0	1.1	1.2
15-44 y	36	31	34	49	26	29	34	41	41	27	1.5	1.3	1.3	2.0	1.1	1.2	1.3	1.6	1.6	1.1
45-54 y	62	62	50	73	75	72	62	58	51	62	7.9	7.8	6.2	9.1	9.2	8.9	7.6	7.0	6.2	7.6
55-64 y	92	109	111	147	122	130	113	114	116	129	14.5	16.9	16.8	21.7	17.7	18.9	16.2	16.1	16.2	17.9
65-74 y	164	144	151	143	157	166	167	165	183	206	32.1	29.2	30.0	28.4	31.1	32.0	31.6	30.7	33.0	35.7
75+ y	182	171	203	236	216	219	230	201	239	213	32.4	29.2	36.0	39.7	36.2	36.6	38.9	34.4	37.6	35.5

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

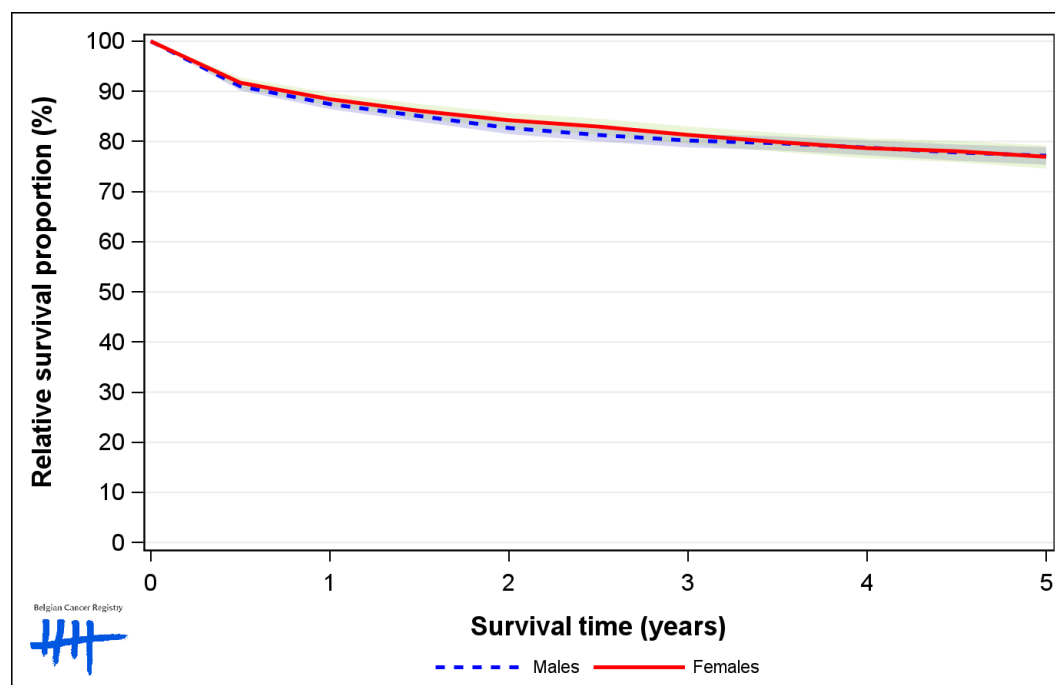


## 2. Relative survival

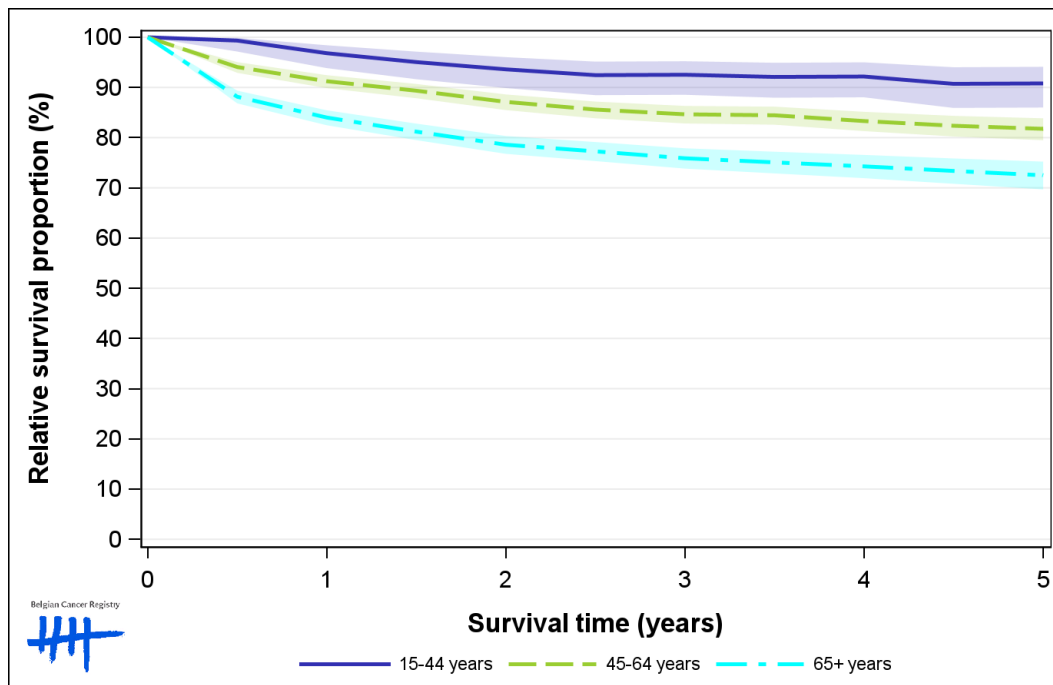
**Table 6:** Kidney Cancer: 5-year relative survival proportion by sex, age group and region, Belgium 2013-2017

	5-year relative survival 2013-2017 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
<b>Overall</b>	5,396	77.0	[75.3, 78.8]	3,023	76.9	[74.6, 79.2]
<b>Age group</b>						
15-44 years	271	90.4	[85.4, 94.0]	172	93.4	[88.1, 96.6]
45-64 years	2,050	81.7	[79.5, 83.8]	887	84.6	[81.6, 87.3]
65+ years	3,077	72.3	[69.5, 75.1]	1,964	71.4	[68.0, 74.7]
<b>Region</b>						
Brussels-Capital Region	354	80.6	[73.8, 86.7]	195	76.3	[66.6, 84.6]
Flemish Region	3,458	76.4	[74.2, 78.6]	1,937	75.5	[72.5, 78.4]
Walloon Region	1,584	77.5	[74.2, 80.7]	891	80.3	[76.2, 84.2]

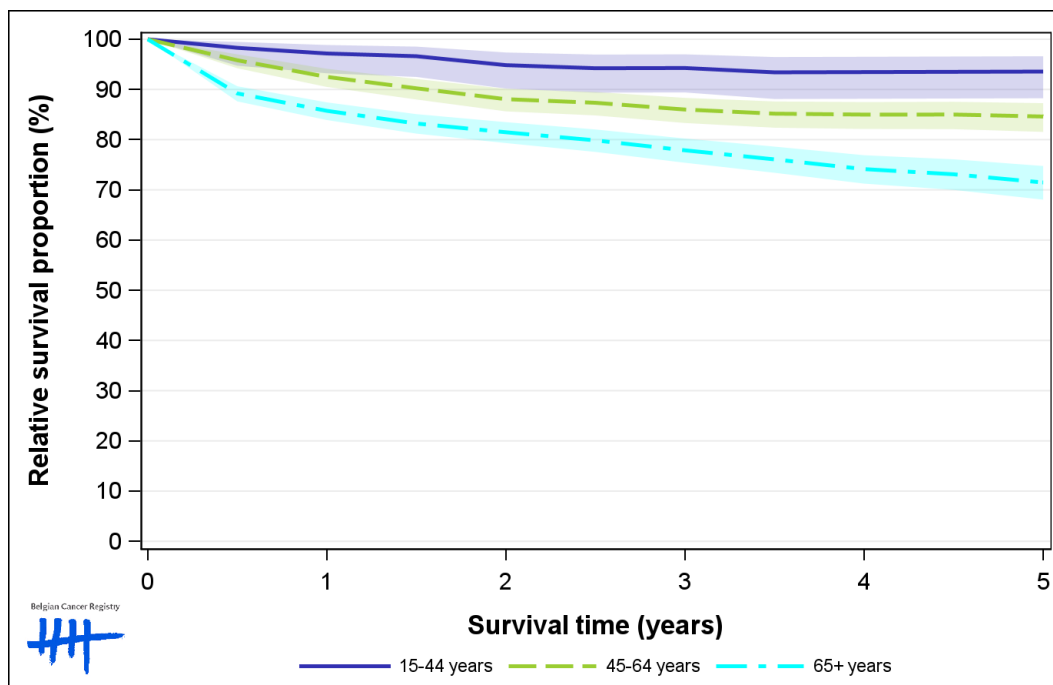
**Figure 6:** Kidney Cancer: relative survival proportion by sex, Belgium 2013-2017



**Figure 7:** Kidney Cancer: relative survival proportion by age group in males, Belgium 2013-2017

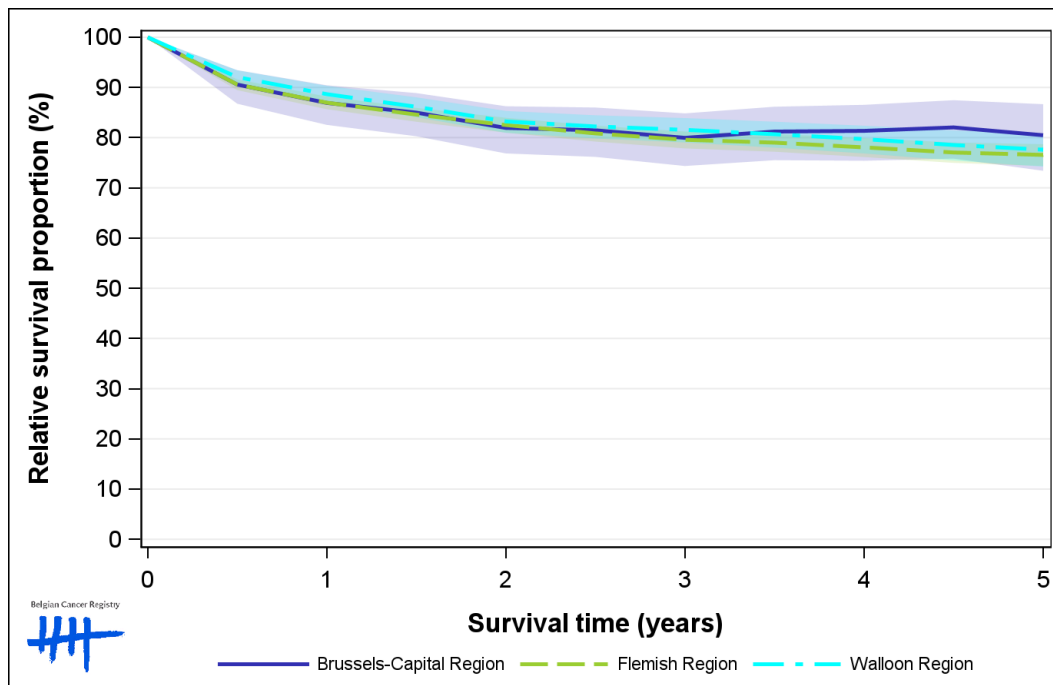


**Figure 8:** Kidney Cancer: relative survival proportion by age group in females, Belgium 2013-2017





**Figure 9:** Kidney Cancer: relative survival proportion by region in males, Belgium 2013-2017



**Figure 10:** Kidney Cancer: relative survival proportion by region in females, Belgium 2013-2017

