

Belgian Cancer Registry



# Cancer Fact Sheet **Kidney Cancer**

ICD10 : C64

**Belgium 2022**

# 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, 2022

Males	Age (years)	N	CR	ESR	WSR	CRi
<b>Belgium</b>	<b>67.3</b>	<b>1,377</b>	<b>24.1</b>	<b>25.3</b>	<b>12.1</b>	<b>1.49</b>
Brussels-Capital Region	64.8	90	15.0	22.3	10.4	1.17
Flemish Region	68.2	907	27.3	26.9	12.6	1.55
Walloon Region	65.6	380	21.2	22.4	11.4	1.43

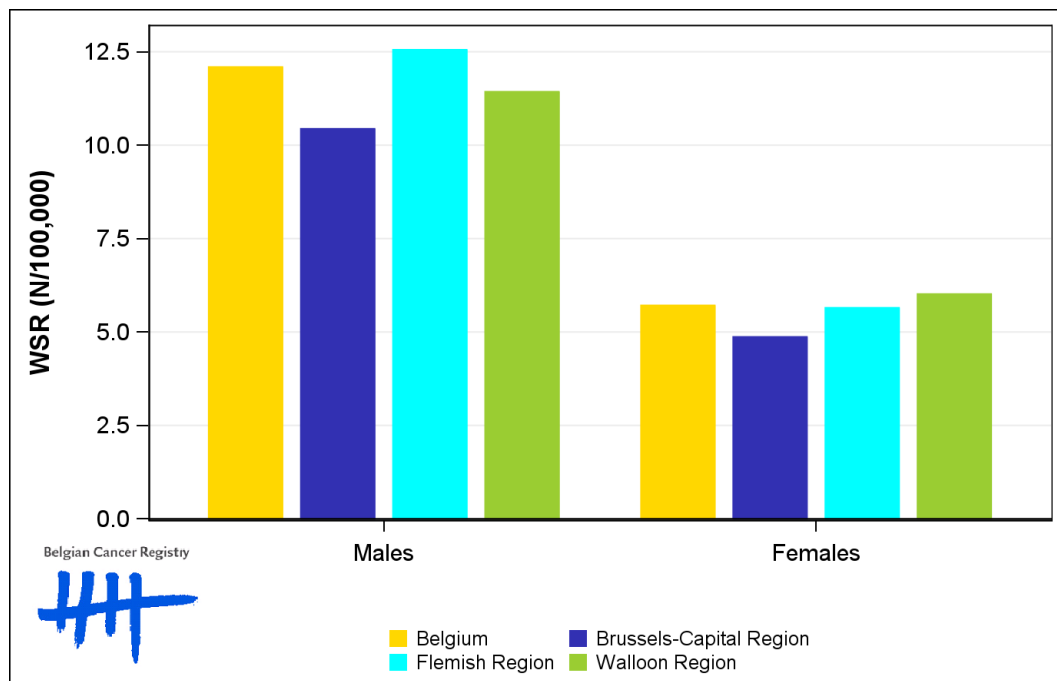
Females	Age (years)	N	CR	ESR	WSR	CRi
<b>Belgium</b>	<b>67.8</b>	<b>699</b>	<b>11.9</b>	<b>11.3</b>	<b>5.7</b>	<b>0.63</b>
Brussels-Capital Region	62.8	45	7.2	8.7	4.9	0.55
Flemish Region	69.0	431	12.7	11.5	5.6	0.60
Walloon Region	66.4	223	11.9	11.4	6.0	0.69

CR=Crude (all ages) Rate (N/100,000 person-years)  
 ESR=Age-Standardised Rate, using 2013 revised 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 (%)

Belgian Cancer Registry



**Figure 1:** Kidney Cancer: Age-standardised incidence rates by sex and region, 2022



## 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 2022

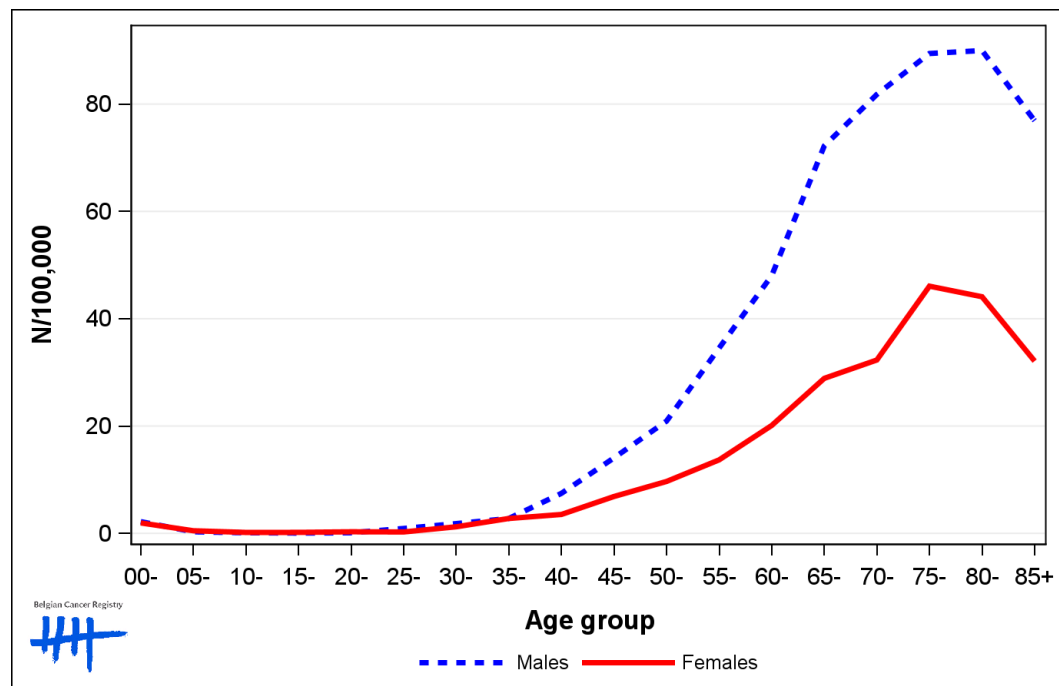
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	1.6	0.3	0.0	0.0	0.3	0.5	2.4	2.7	5.8	11.7	21.5	34.9	53.7	73.0	91.7	95.1	101.1	70.0	24.1	25.3	12.1
Females	2.4	0.6	0.3	0.3	0.0	0.3	0.8	3.2	3.2	8.2	9.0	15.8	24.7	28.0	28.8	51.5	43.8	28.5	11.9	11.3	5.7

CR=Crude (all ages) Rate (N/100,000 person-years)

ESR (2013)=Age-Standardised Rate, using the 2013 revised 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, 2018-2022



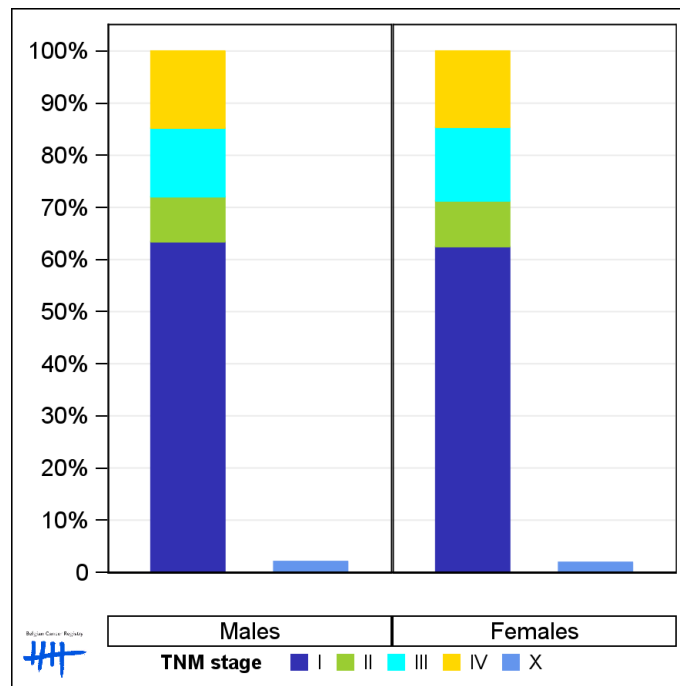
### 1.3. Combined stage

**Table 3:** Kidney Cancer: Distribution of combined stage by sex, Belgium 2022

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
<b>Males</b>							
N	847	115	176	197	28	14	1,377
%	61.5	8.4	12.8	14.3	2.0	1.0	100
<b>Females</b>							
N	420	59	95	98	13	14	699
%	60.1	8.4	13.6	14.0	1.9	2.0	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 2022



### 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

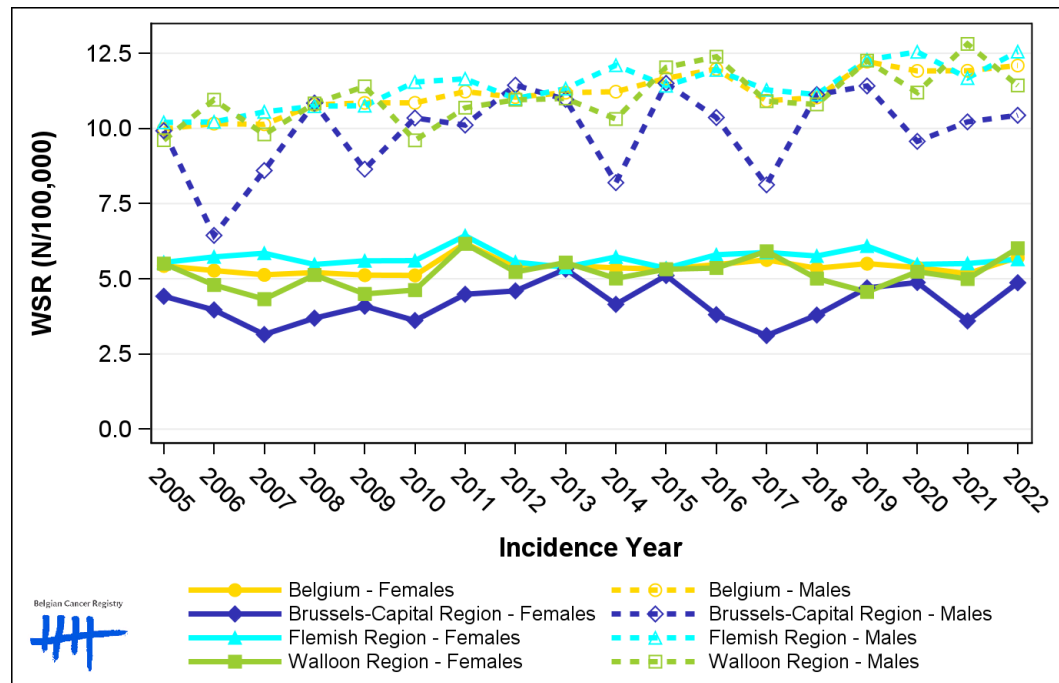
Males	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	AAPC	95% CI
<b>Belgium</b>	<b>10.8</b>	<b>10.9</b>	<b>10.9</b>	<b>11.2</b>	<b>11.0</b>	<b>11.2</b>	<b>11.2</b>	<b>11.7</b>	<b>12.0</b>	<b>10.9</b>	<b>11.0</b>	<b>12.2</b>	<b>11.9</b>	<b>11.9</b>	<b>12.1</b>	<b>0.8</b>	<b>[0.4; 1.2]</b>
Brussels-Capital Region	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	10.4	0.1	[-1.4; 1.7]
Flemish Region	10.7	10.8	11.5	11.7	11.0	11.3	12.1	11.4	11.9	11.3	11.1	12.3	12.5	11.7	12.6	0.8	[0.3; 1.3]
Walloon Region	10.8	11.4	9.6	10.7	11.0	11.0	10.3	12.0	12.4	10.9	10.8	12.3	11.2	12.8	11.4	0.9	[0.1; 1.8]

Females	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	AAPC	95% CI
<b>Belgium</b>	<b>5.2</b>	<b>5.1</b>	<b>5.1</b>	<b>6.2</b>	<b>5.4</b>	<b>5.4</b>	<b>5.4</b>	<b>5.3</b>	<b>5.5</b>	<b>5.6</b>	<b>5.4</b>	<b>5.5</b>	<b>5.4</b>	<b>5.2</b>	<b>5.7</b>	<b>0.2</b>	<b>[-0.4; 0.8]</b>
Brussels-Capital Region	3.7	4.1	3.6	4.5	4.6	5.3	4.2	5.1	3.8	3.1	3.8	4.7	4.9	3.6	4.9	0.4	[-1.6; 2.5]
Flemish Region	5.5	5.6	5.6	6.4	5.6	5.4	5.7	5.4	5.8	5.9	5.8	6.1	5.5	5.5	5.6	0.1	[-0.6; 0.7]
Walloon Region	5.1	4.5	4.6	6.2	5.2	5.5	5.0	5.3	5.4	5.9	5.0	4.6	5.2	5.0	6.0	0.4	[-0.8; 1.7]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)  
 AAPC = Average Annual Percentage Change over the 2008-2022 period

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



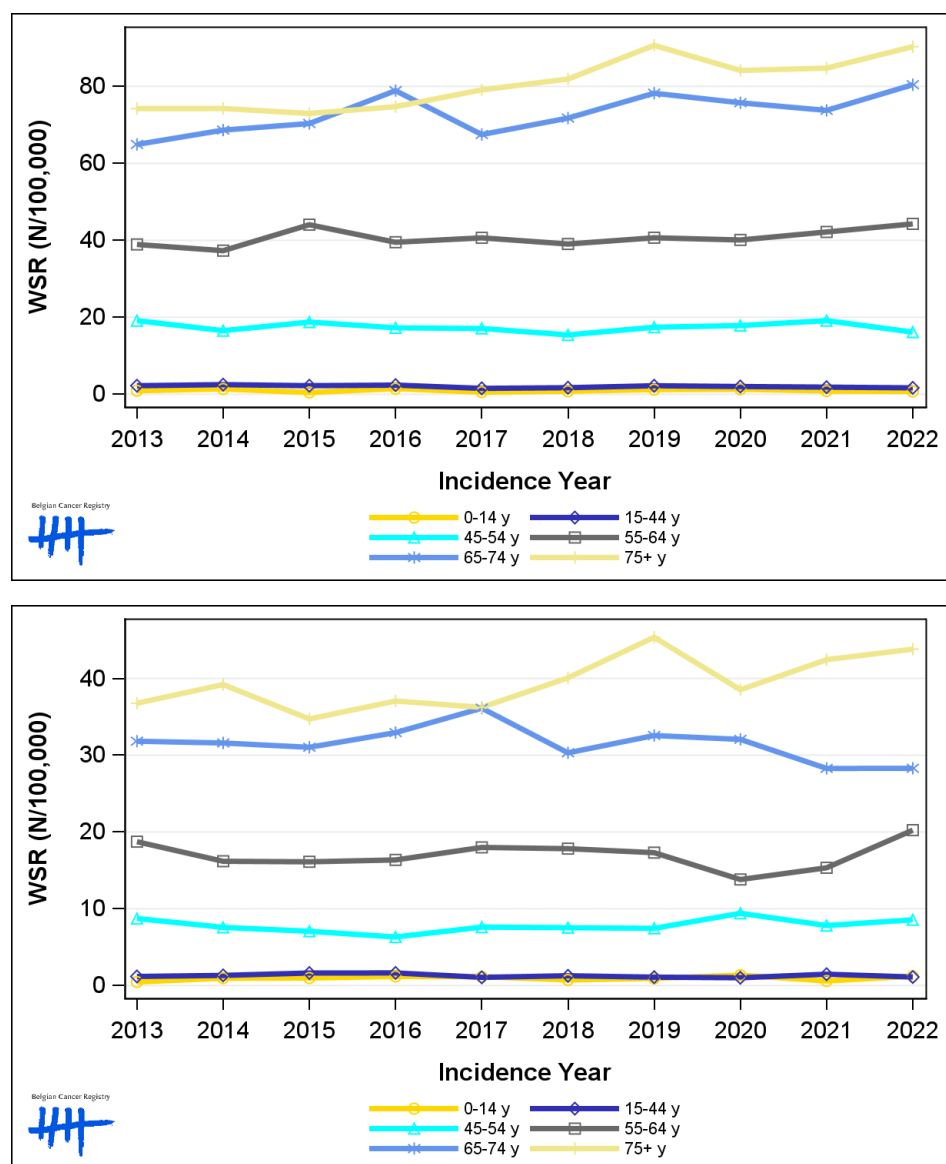
## 1.5. Incidence by broad age groups

**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									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>Males</b>																					
All ages	1,069	1,079	1,152	1,191	1,140	1,175	1,309	1,281	1,300	1,377	11.2	11.2	11.7	12.0	10.9	11.0	12.2	11.9	11.9	12.1	
0-14 y	8	12	4	13	5	7	10	11	7	6	0.9	1.4	0.5	1.5	0.6	0.8	1.2	1.3	0.8	0.7	
15-44 y	59	66	59	63	40	44	56	52	49	44	2.2	2.5	2.2	2.4	1.5	1.7	2.2	2.0	1.8	1.7	
45-54 y	160	137	156	144	141	129	141	144	150	129	19.1	16.5	18.8	17.3	17.1	15.4	17.4	17.9	19.1	16.2	
55-64 y	263	255	304	278	291	283	302	299	322	339	38.9	37.3	44.1	39.5	40.7	39.0	40.7	40.1	42.2	44.3	
65-74 y	299	326	343	396	354	386	430	429	424	470	64.9	68.7	70.4	78.9	67.5	71.8	78.2	75.8	73.8	80.5	
75+ y	280	283	286	297	309	326	370	346	348	389	74.3	74.3	73.0	74.8	79.1	81.9	90.7	84.2	84.8	90.3	
<b>Females</b>																					
All ages	619	615	591	639	653	642	685	651	660	699	5.4	5.4	5.3	5.5	5.6	5.4	5.5	5.4	5.2	5.7	
0-14 y	4	8	8	10	10	6	8	11	5	10	0.5	1.0	1.0	1.2	1.2	0.7	0.9	1.4	0.6	1.2	
15-44 y	30	34	41	41	27	33	26	26	39	29	1.2	1.3	1.6	1.6	1.1	1.3	1.1	1.0	1.5	1.1	
45-54 y	71	62	58	52	62	59	60	75	61	65	8.7	7.6	7.1	6.3	7.6	7.5	7.5	9.4	7.8	8.6	
55-64 y	129	113	114	117	130	132	129	105	118	156	18.7	16.2	16.1	16.4	18.0	17.8	17.3	13.8	15.3	20.2	
65-74 y	165	167	167	183	208	181	197	195	178	178	31.8	31.6	31.0	32.9	36.1	30.3	32.6	32.1	28.3	28.3	
75+ y	220	231	203	236	216	231	265	239	259	261	36.8	39.2	34.7	37.1	36.2	40.1	45.4	38.5	42.4	43.8	

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. Net survival

**Table 6:** Kidney Cancer: 5-year net survival by sex, age group and region, Belgium 2018-2022

	5-year net survival 2018-2022 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
<b>Overall</b>	6,259	78.9	[77.0, 80.8]	3,240	78.8	[76.1, 81.7]
<b>Age group</b>						
15-44 years	239	92.0	[88.1, 96.1]	149	95.3	[91.2, 99.6]
45-64 years	2,186	85.5	[83.5, 87.5]	941	84.6	[81.7, 87.7]
65+ years	3,836	74.3	[71.5, 77.2]	2,151	75.1	[71.3, 79.2]
<b>Region</b>						
Brussels-Capital Region	423	71.0	[64.1, 78.7]	205	82.5	[74.1, 91.8]
Flemish Region	3,985	78.4	[76.0, 80.8]	2,105	78.2	[74.7, 82.0]
Walloon Region	1,852	81.9	[78.5, 85.4]	930	79.7	[75.3, 84.4]

**Figure 6:** Kidney Cancer: net survival by sex, Belgium 2018-2022

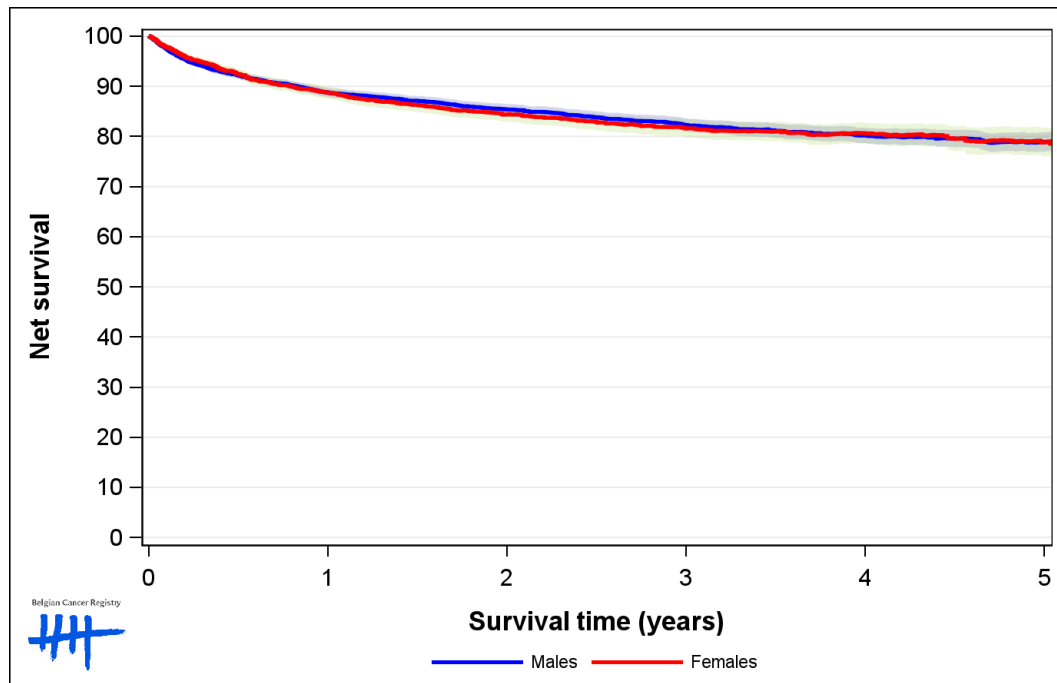


Figure 7: Kidney Cancer: net survival by age group in males, Belgium 2018-2022

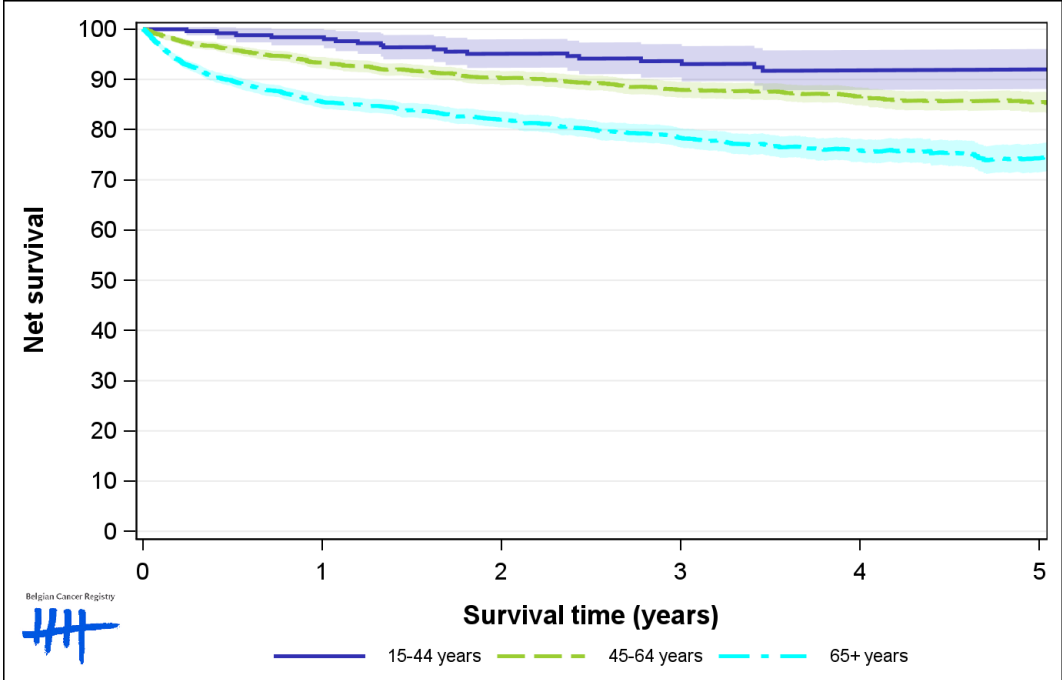


Figure 8: Kidney Cancer: net survival by age group in females, Belgium 2018-2022

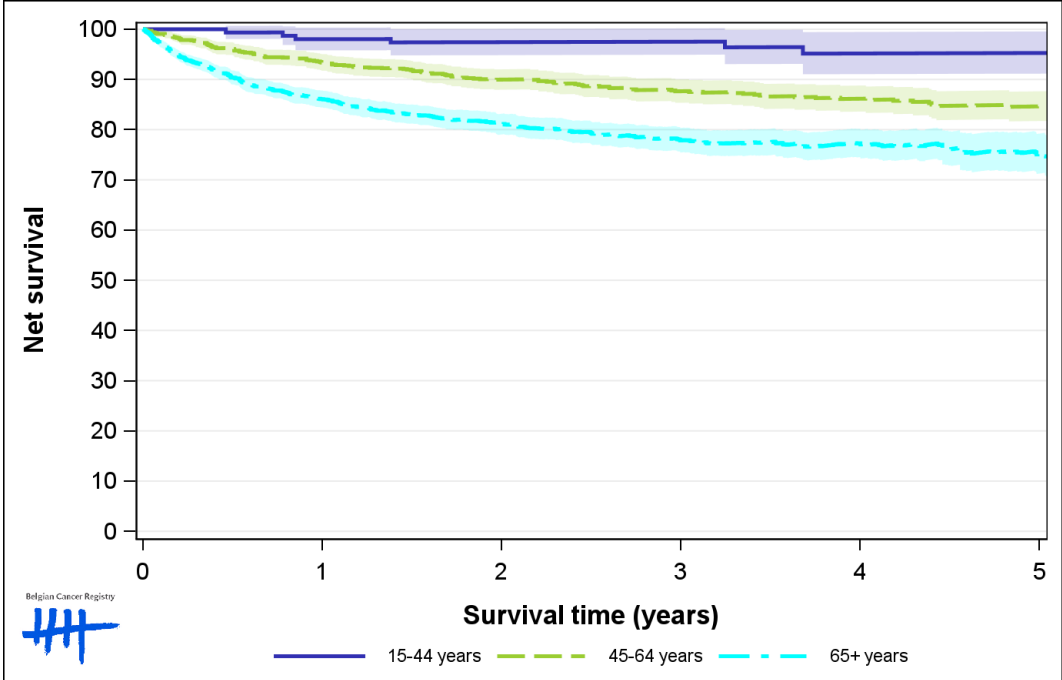




Figure 9: Kidney Cancer: net survival by region in males, Belgium 2018-2022

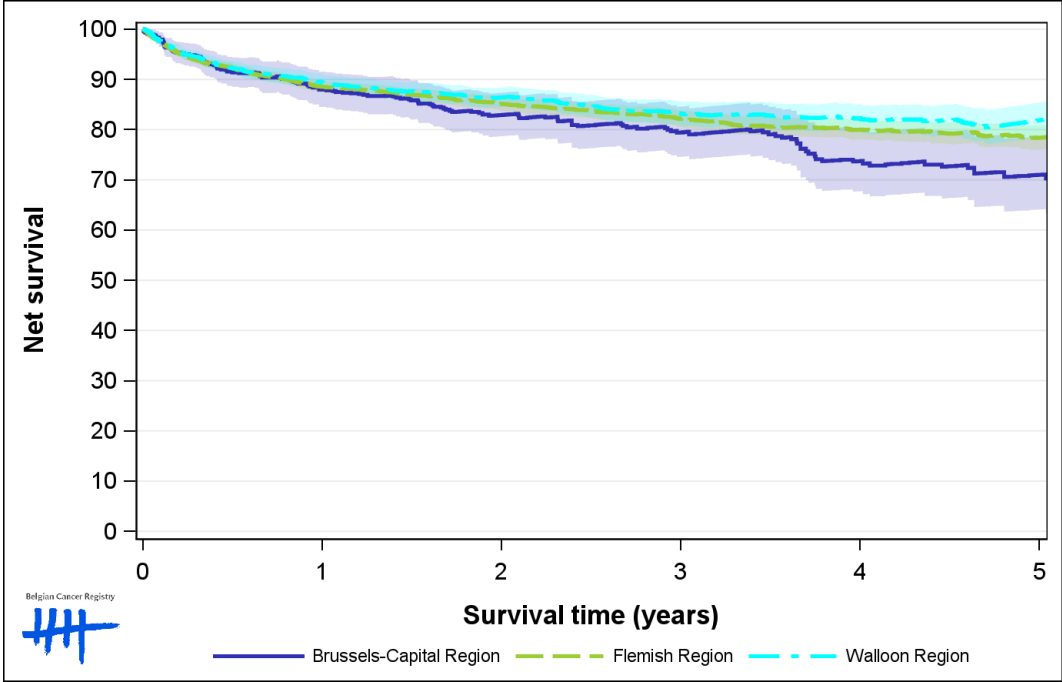


Figure 10: Kidney Cancer: net survival by region in females, Belgium 2018-2022

