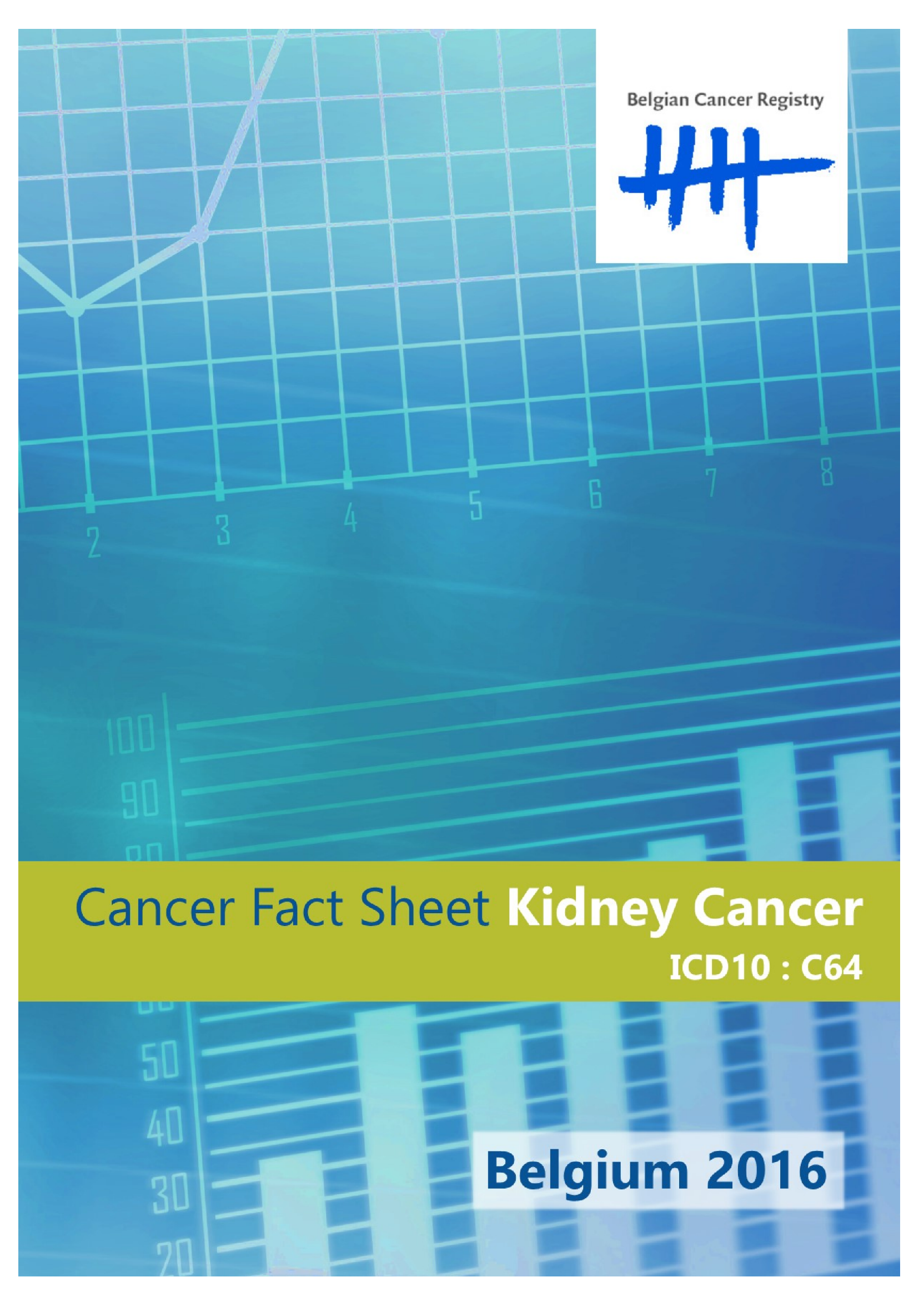




Belgian Cancer Registry



Cancer Fact Sheet **Kidney Cancer**

ICD10 : C64



Belgium 2016

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, 2016

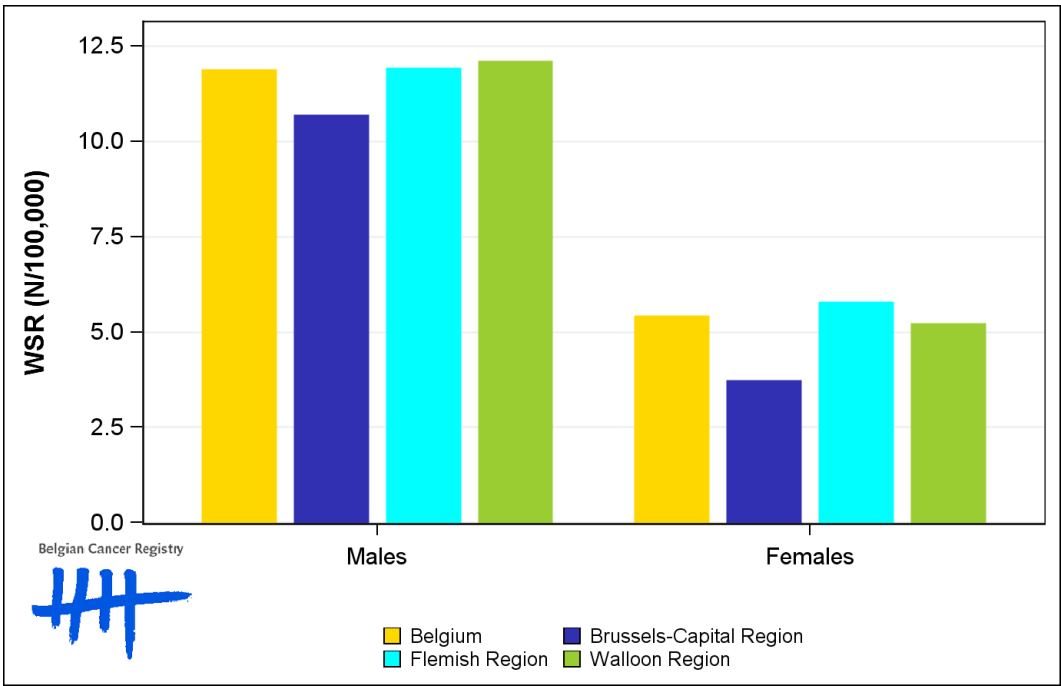
Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	65.4	1,182	21.3	16.6	11.9	1.46
Brussels-Capital Region	62.9	81	14.0	14.5	10.7	1.21
Flemish Region	66.1	737	23.0	16.9	11.9	1.47
Walloon Region	64.3	364	20.7	16.7	12.1	1.49

Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	67.8	633	11.0	7.5	5.4	0.63
Brussels-Capital Region	69.1	41	6.7	5.4	3.7	0.47
Flemish Region	69.0	415	12.7	8.0	5.8	0.65
Walloon Region	64.8	177	9.6	7.1	5.2	0.65

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 (%)



Figure 1: Kidney Cancer: Age-standardised incidence rates by sex and region, 2016



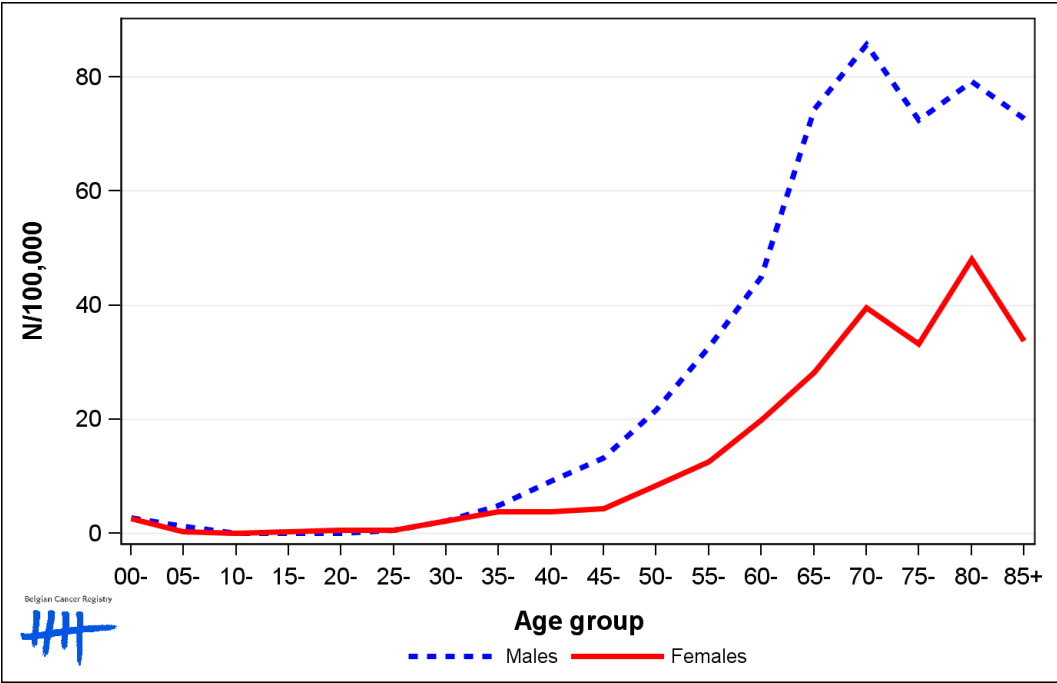
1.2. Age-specific incidence rates

Table 2: Kidney Cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2016

	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	2.8	1.2	0.0	0.0	0.0	0.6	2.2	4.9	9.3	13.2	21.6	32.6	45.0	74.4	85.7	72.5	79.2	72.7	21.3	16.6	11.9
Females	2.6	0.3	0.0	0.3	0.6	0.6	2.2	3.8	3.8	4.4	8.4	12.5	19.9	28.2	39.6	33.2	48.0	33.7	11.0	7.5	5.4

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, 2016



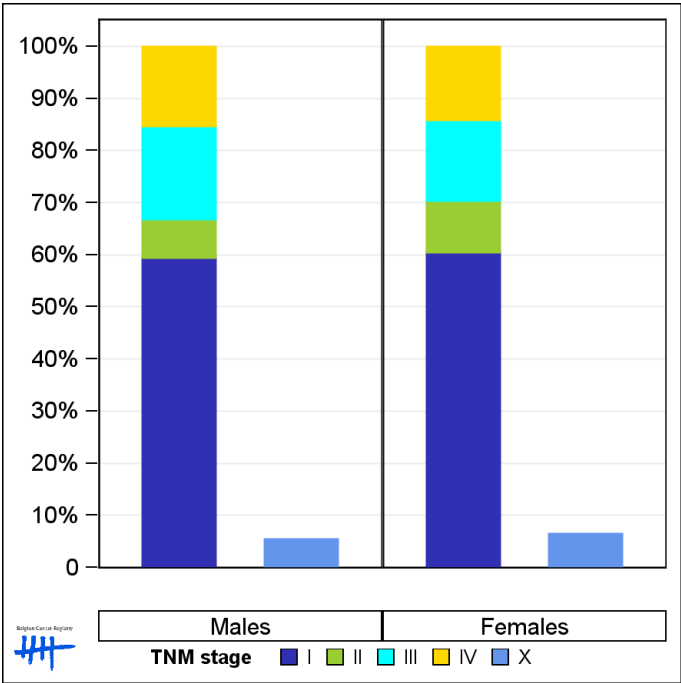
1.3. Combined stage

Table 3: Kidney Cancer: Distribution of combined stage by sex, Belgium 2016

	Stage I	Stage II	Stage III	Stage IV	Stage X	Stage NA	Total
Males							
N	653	80	197	169	64	19	1,182
%	55.2	6.8	16.7	14.3	5.4	1.6	100
Females							
N	350	58	90	82	40	13	633
%	55.3	9.2	14.2	13.0	6.3	2.1	100

Staging according to the TNM 7th edition (Ref:Sobin LH, Gospodarowicz MK, Wittekind Ch. TNM classification of malignant tumours, UICC 7th 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 2016



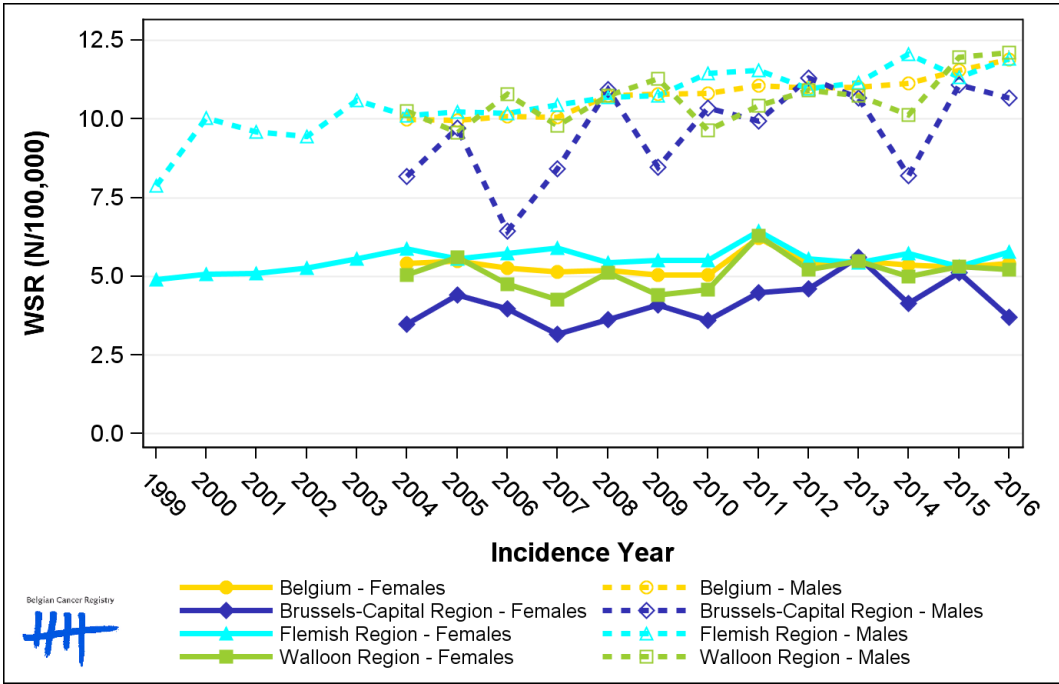
1.4. Trends in incidence

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

Males	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAPC	95% CI
Belgium			10.0	10.0	10.1	10.1	10.7	10.8	10.8	11.1	11.0	11.0	11.1	11.5	11.9	1.4	[1.1; 1.7]
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	10.7	2.3	[-0.1; 4.8]
Flemish Region	9.4	10.6	10.1	10.2	10.2	10.5	10.7	10.7	11.4	11.6	11.0	11.2	12.1	11.3	11.9	1.3	[0.9; 1.8]
Walloon Region			10.3	9.6	10.8	9.8	10.7	11.3	9.6	10.4	10.9	10.7	10.1	12.0	12.1	1.2	[0.1; 2.2]
Females	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	AAPC	95% CI
Belgium			5.4	5.5	5.3	5.1	5.2	5.0	5.0	6.2	5.4	5.5	5.4	5.3	5.4	0.2	[-0.7; 1.1]
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	2.0	[-0.4; 4.4]
Flemish Region	5.3	5.5	5.9	5.6	5.7	5.9	5.4	5.5	5.5	6.4	5.6	5.4	5.7	5.3	5.8	]0;0.1[	[-0.6; 0.8]
Walloon Region			5.0	5.6	4.8	4.3	5.1	4.4	4.6	6.3	5.2	5.5	5.0	5.3	5.2	0.7	[-1.0; 2.4]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)
AAPC = Average Annual Percentage Change over the 2004-2016 period (except for the Flemish region : 2002-2016).

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



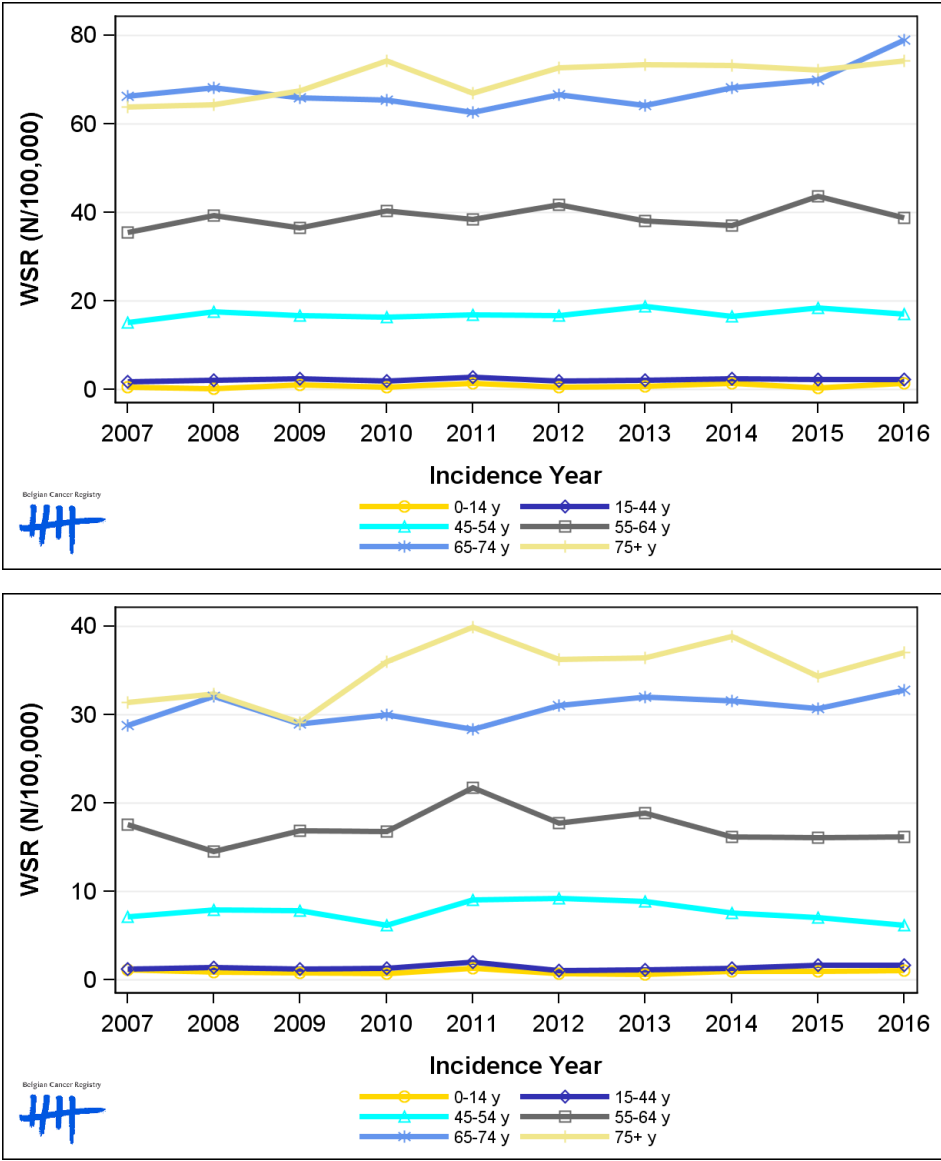
1.5. Incidence by broad age groups

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									
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Males																				
All ages	891	949	958	992	993	1,048	1,053	1,070	1,141	1,182	10.1	10.7	10.8	10.8	11.1	11.0	11.0	11.1	11.5	11.9
0-14 y	5	2	9	5	13	5	7	12	3	13	0.6	0.3	1.1	0.6	1.5	0.6	0.8	1.4	0.4	1.5
15-44 y	47	55	65	52	75	53	59	65	59	63	1.8	2.1	2.4	1.9	2.8	2.0	2.2	2.5	2.2	2.4
45-54 y	118	138	135	133	138	139	157	137	154	142	15.2	17.6	16.8	16.4	16.9	16.7	18.8	16.5	18.5	17.0
55-64 y	215	243	230	261	254	280	257	253	301	273	35.4	39.3	36.5	40.4	38.4	41.8	38.0	37.0	43.6	38.8
65-74 y	287	289	284	277	273	301	296	324	341	396	66.3	68.2	65.9	65.4	62.6	66.6	64.2	68.2	69.9	78.9
75+ y	219	222	235	264	240	270	277	279	283	295	63.8	64.4	67.5	74.3	66.9	72.7	73.5	73.2	72.2	74.2
Females																				
All ages	522	543	523	555	660	602	620	614	587	633	5.1	5.2	5.0	5.0	6.2	5.4	5.5	5.4	5.3	5.4
0-14 y	9	7	7	6	11	6	5	8	8	9	1.1	0.9	0.8	0.7	1.3	0.7	0.6	1.0	1.0	1.1
15-44 y	33	36	31	34	49	26	29	34	41	41	1.2	1.5	1.3	1.3	2.0	1.1	1.2	1.3	1.6	1.6
45-54 y	55	62	62	50	73	75	72	62	58	51	7.2	7.9	7.8	6.2	9.1	9.2	8.9	7.6	7.0	6.2
55-64 y	106	92	109	111	147	122	130	113	114	116	17.6	14.5	16.9	16.8	21.7	17.7	18.9	16.2	16.1	16.2
65-74 y	147	164	143	151	143	157	166	167	165	182	28.7	32.1	28.9	30.0	28.4	31.1	32.0	31.6	30.7	32.8
75+ y	172	182	171	203	237	216	218	230	201	234	31.4	32.4	29.2	36.0	40.0	36.2	36.4	38.9	34.4	37.0

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 2012-2016

5-year relative survival 2012-2016 (%)						
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
Overall	5,326	75.5	[73.7, 77.3]	2,974	76.9	[74.6, 79.1]
Age group						
15-44 years	285	87.9	[82.1, 92.0]	171	92.4	[86.6, 95.9]
45-64 years	2,043	81.1	[78.9, 83.3]	896	82.9	[79.8, 85.7]
65+ years	3,000	70.0	[67.2, 72.8]	1,907	72.3	[69.0, 75.5]
Region						
Brussels-Capital Region	370	80.4	[74.1, 86.0]	203	78.9	[69.8, 86.6]
Flemish Region	3,389	74.8	[72.5, 77.0]	1,907	75.9	[73.0, 78.8]
Walloon Region	1,567	75.9	[72.5, 79.1]	864	78.4	[74.3, 82.3]

Figure 6: Kidney Cancer: relative survival proportion by sex, Belgium 2012-2016

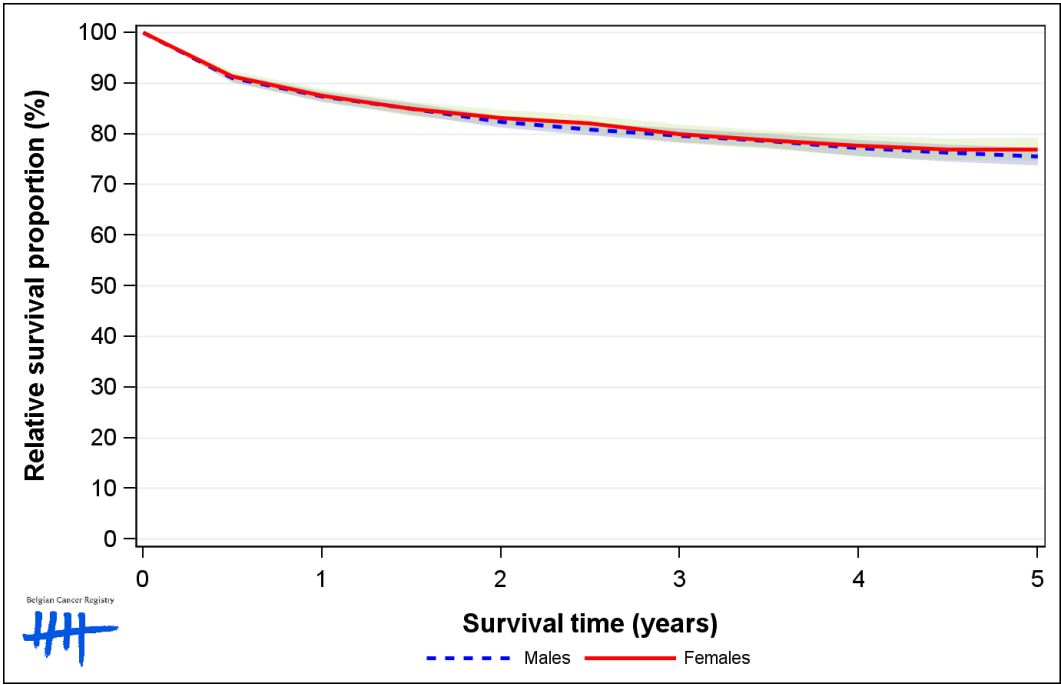


Figure 7: Kidney Cancer: relative survival proportion by age group in males, Belgium 2012-2016

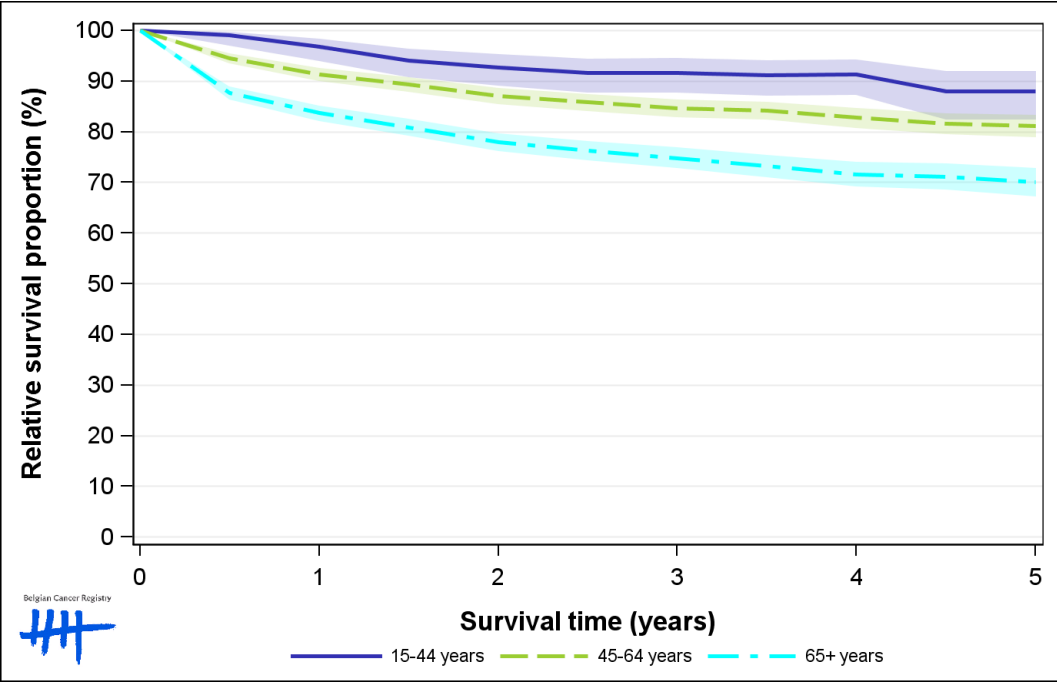


Figure 8: Kidney Cancer: relative survival proportion by age group in females, Belgium 2012-2016

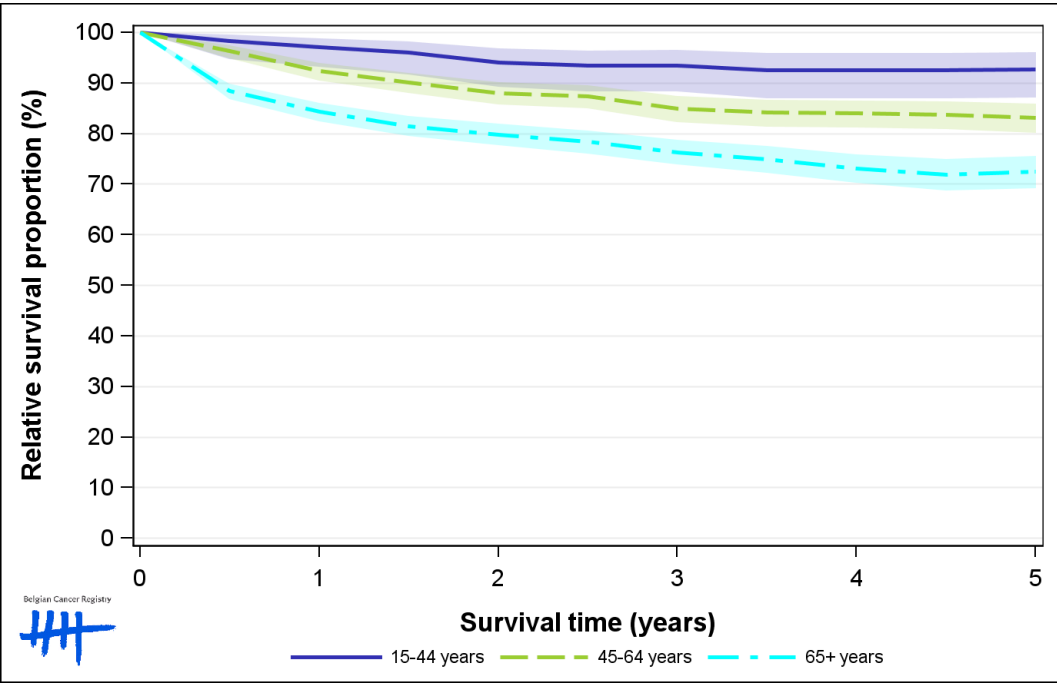


Figure 9: Kidney Cancer: relative survival proportion by region in males, Belgium 2012-2016

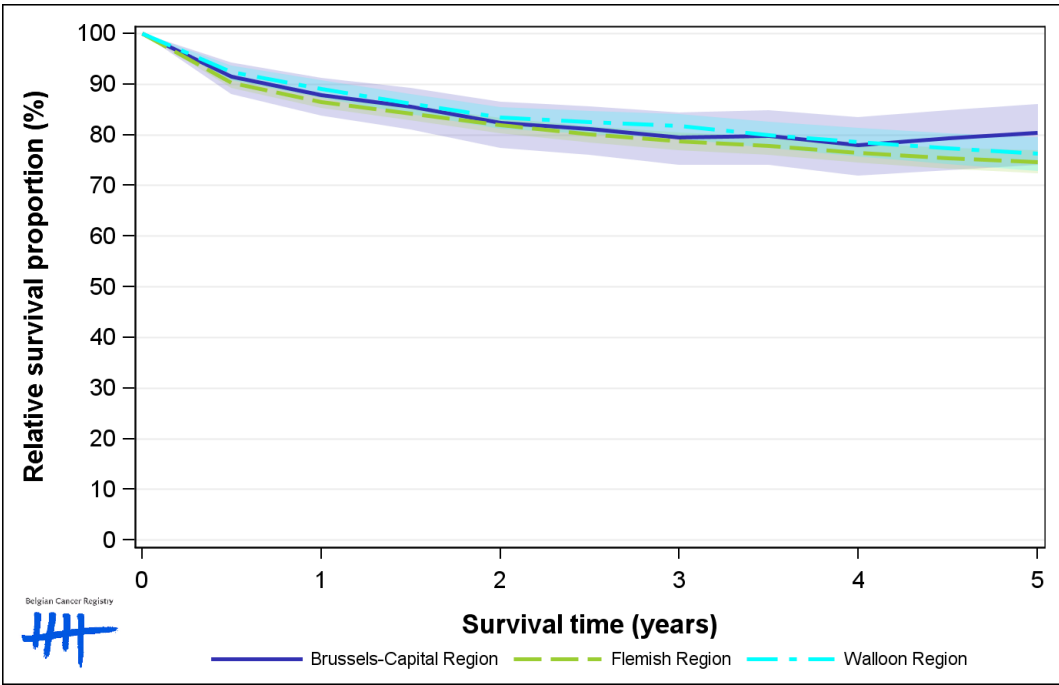


Figure 10: Kidney Cancer: relative survival proportion by region in females, Belgium 2012-2016

