

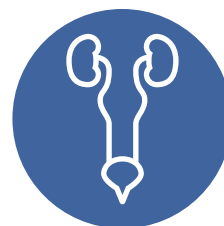


Belgian Cancer Registry

CANCER FACT SHEET 2023

KIDNEY CANCER

ICD-10 C64



CONCEPTS AND ABBREVIATIONS

Absolute numbers (N): The number of newly registered cancer diagnoses observed for a given period of time. All figures and numbers in this cancer fact sheet are based on diagnoses of Belgian residents.

Average Annual Percentage Change (AAPC): The average relative change in incidence risk from one year to the next. For example an AAPC of 1.05 (a 5% increase) applied to a cancer risk of 200/100,000 results in a risk of 210/100,000 one year later ($=200 \times 1.05$) and 255/100,000 over 5 years ($=200 \times (1.05)^5$).

Crude Rate (CR): The crude rate is obtained by dividing the absolute number of diagnoses (N) by the corresponding population size at risk (N/100,000).

ESR2013: Incidence rates standardised to the 2013 revised European Standard Population (ESP): Standardisation is necessary to accommodate for differences in population size and age distribution (over time or among regions). An important factor in interpreting trends in cancer incidence is population ageing, as cancer is an age-dependent disease. For a higher proportion of elderly people in the population, a higher total number of cancer diagnoses can be expected for the same cancer risk. When only absolute numbers (N) or Crude Rate (CR) results are used, a misleading picture of the actual changes in the risk of a cancer diagnosis could be obtained. Therefore, direct standardisation is necessary to evaluate the evolution of the risk of cancer diagnosis over time or among regions.

Net survival: Often also called the relative survival, is an estimate of the survival probability when other causes of death beside the cancer type(s) under study are excluded. As examples of other causes of death, patients with the cancer type(s) under study could also die because of an accident or unrelated cardiac conditions, etc. Net survival may exceed 100%, this occurs when the observed survival probability for patients with the cancer type(s) under study is higher than the one for the matched general population (no excess mortality due to cancer).

The net survival estimation was based on the regional lifetables 2023, obtained from the Statbel.

Stage: Cancers are reported with a stage, labelled with a Roman numeral with IV being the most advanced stage. Stage is based on the T-category (extent of the tumour), the N-category (absence or presence and extent of the regional lymph node metastasis) and the M-category (absence or presence of distant metastasis). Stage is reported as clinical and pathological stage and as a combination of both clinical and pathological stage with priority given to the pathological stage. Clinical information about distant metastases (cM) will always be taken into account, and in case of neo-adjuvant therapy, priority is given to the clinical stage. If stage is unknown, not applicable or not submitted to the Belgian Cancer Registry, the stage is reported as 'unregistered stage'. Stage is reported according to the TNM 8th edition: J.D. Brierley, M.K. Gospodarowicz, Ch. Wittekind. TNM Classification of Malignant Tumours, 8th edition: UICC, 2017.

95% CI: 95% Confidence Intervals are indicated with a shaded band or whiskers in the figures. The 95% CI is a range of values that has 95% chance to contain the true mean value.



1. CANCER INCIDENCE	5
1.1. Kidney cancer incidence: by region	5
1.1.1. Kidney cancer incidence by region and sex: number of new diagnoses, age-specific, crude and age-standardised incidence rates, 2023.....	5
1.2. Kidney cancer incidence: by tumour stage	7
1.2.1. Kidney cancer incidence by clinical stage (cStage), sex and age group: number of new diagnoses, crude and age-standardised incidence rates, 2023.....	7
1.2.2. Kidney cancer incidence by pathological stage (pStage), sex and age group: number of new diagnoses, crude and age-standardised incidence rates, 2023	7
1.2.3. Kidney cancer incidence by stage, sex and age group: number of new diagnoses, crude and age-standardised incidence rates, 2023.....	8
2. CANCER INCIDENCE TRENDS	9
2.1. Kidney cancer incidence trends: by region.....	9
2.1.1. Kidney cancer incidence trends in males, by region: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023.....	9
2.1.2. Kidney cancer incidence trends in females, by region: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023.....	10
2.2. Kidney cancer incidence trends: by tumour stage.....	11
2.2.1. Kidney cancer incidence trends by stage and sex: number of new diagnoses, crude and age-standardised incidence rates, 2019-2023, including average annual percentage change from 2004 onwards	11
2.3. Kidney cancer incidence trends: by age group.....	12
2.3.1. Kidney cancer incidence trends in males, by age group: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023.....	12
2.3.2. Kidney cancer incidence trends in females, by age group: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023.....	13
3. CANCER PREVALENCE	14
3.1. Kidney cancer prevalence: by region.....	14
3.1.1. Kidney cancer prevalence by region and sex: number of prevalent cases, crude and age-standardised prevalence rates on 31/12/2023.....	14
4. CANCER SURVIVAL.....	15
4.1. Kidney cancer survival: by region	15
4.1.1. Kidney cancer survival by region, sex and age group: number at risk and net survival probabilities, 2014-2023	15
4.2. Kidney cancer survival: by tumour stage	17
4.2.1. Kidney cancer survival by clinical stage (cStage) and sex: number at risk and net survival probabilities, 2014-2023.....	17
4.2.2. Kidney cancer survival by pathological stage (pStage), and sex: number at risk and net survival probabilities, 2014-2023	18
4.2.3. Kidney cancer survival by stage and sex: number at risk and net survival probabilities, 2014-2023.....	19
5. CANCER SURVIVAL TRENDS.....	20
5.1. Kidney cancer survival trends: by tumour stage.....	20

5.1.1. Kidney cancer survival trends by stage and sex: number at risk and net survival probabilities, 2004-2023	20
6. CANCER MORTALITY	22
6.1. Kidney cancer mortality: by region	22
6.1.1. Kidney cancer mortality* by region and sex: number of cancer deaths, age-specific, crude and age-standardised mortality rates, 2021	22
7. CANCER MORTALITY TRENDS.....	24
7.1. Kidney cancer mortality trends: by region	24
7.1.1. Kidney cancer mortality* trends in males, by region: number of cancer deaths, crude and age-standardised mortality rates, including average annual percentage change, 2004-2021	24
7.1.2. Kidney cancer mortality* trends in females, by region: number of cancer deaths, crude and age-standardised mortality rates, including average annual percentage change, 2004-2021	25

1. CANCER INCIDENCE



1.1. Kidney cancer incidence: by region

1.1.1. Kidney cancer incidence by region and sex: number of new diagnoses, age-specific, crude and age-standardised incidence rates, 2023

Region	N [CR]																				ESR2013 (95%CI)	
	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85-	90-	95-	All ages	
Males																						
Belgium	5	2	0	1	1	4	6	18	41	62	93	164	200	251	235	217	133	65	18	1	1,517	27.5
	[1.6]	[0.6]	[0.0]	[0.3]	[0.3]	[1.1]	[1.5]	[4.8]	[10.7]	[16.6]	[23.5]	[40.8]	[53.4]	[78.9]	[88.2]	[106.7]	[106.5]	[81.5]	[57.4]	[16.5]	[26.3]	(26.1; 28.8)
Brussels	0	0	0	0	0	1	0	2	2	3	6	7	10	9	11	8	8	3	0	0	70	17.1
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[2.0]	[0.0]	[4.3]	[4.3]	[6.8]	[14.6]	[19.8]	[34.7]	[42.1]	[65.4]	[63.4]	[99.5]	[60.0]	[0.0]	[0.0]	[11.5]	(13.0; 21.2)
Flanders	5	2	0	1	1	2	3	7	25	37	51	105	127	178	151	148	94	50	16	1	1,004	29.4
	[2.9]	[1.1]	[0.0]	[0.5]	[0.5]	[1.0]	[1.4]	[3.3]	[11.3]	[17.5]	[22.3]	[43.3]	[55.5]	[90.9]	[92.0]	[113.5]	[114.0]	[92.9]	[76.9]	[25.2]	[29.9]	(27.6; 31.2)
Wallonia	0	0	0	0	0	1	3	9	14	22	36	52	63	64	73	61	31	12	2	0	443	26.0
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.9]	[2.5]	[7.7]	[12.0]	[18.6]	[28.7]	[41.7]	[53.9]	[63.5]	[85.5]	[101.1]	[90.1]	[57.3]	[24.3]	[0.0]	[24.6]	(23.5; 28.4)
Females																						
Belgium	4	4	0	0	4	5	7	11	21	28	40	52	88	101	83	119	72	55	18	2	714	11.3
	[1.4]	[1.3]	[0.0]	[0.0]	[1.2]	[1.4]	[1.8]	[2.9]	[5.5]	[7.6]	[10.3]	[13.1]	[23.1]	[29.8]	[27.9]	[48.4]	[41.3]	[41.1]	[25.4]	[9.6]	[12.0]	(10.5; 12.2)
Brussels	0	2	0	0	1	0	0	1	3	1	4	6	5	3	2	10	4	0	0	1	43	8.3
	[0.0]	[5.2]	[0.0]	[0.0]	[2.4]	[0.0]	[0.0]	[2.1]	[6.6]	[2.4]	[10.5]	[17.6]	[16.5]	[12.0]	[9.3]	[55.5]	[31.1]	[0.0]	[0.0]	[48.0]	[6.8]	(5.8; 10.8)

Region	N [CR]																				ESR2013 (95%CI)	
	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85-	90-	95-	All ages	
Flanders	4	2	0	0	2	5	4	6	13	18	21	26	52	68	58	90	52	44	15	0	480	12.6
	[2.5]	[1.1]	[0.0]	[0.0]	[1.1]	[2.5]	[1.8]	[2.8]	[5.9]	[8.7]	[9.3]	[11.0]	[22.8]	[33.6]	[33.0]	[59.9]	[47.5]	[51.6]	[34.1]	[0.0]	[14.0]	(11.5; 13.7)
Wallonia	0	0	0	0	1	0	3	4	5	9	15	20	31	30	23	19	16	11	3	1	191	9.6
	[0.0]	[0.0]	[0.0]	[0.0]	[0.9]	[0.0]	[2.5]	[3.4]	[4.2]	[7.6]	[12.0]	[15.8]	[25.2]	[26.9]	[23.0]	[24.5]	[30.8]	[28.4]	[14.2]	[15.4]	[10.2]	(8.2; 11.0)

1.2. Kidney cancer incidence: by tumour stage

1.2.1. Kidney cancer incidence by clinical stage (cStage), sex and age group: number of new diagnoses, crude and age-standardised incidence rates, 2023

cStage	Males					Females				
	N[CR]				ESR2013 (95%CI)	N[CR]				ESR2013 (95%CI)
	15-59	60-74	75+	All ages		15-59	60-74	75+	All ages	
I	255 [7.6]	410 [42.7]	250 [56.1]	915 [15.9]	16.5 (15.5; 17.6)	111 [3.3]	177 [17.4]	147 [22.8]	435 [7.3]	7.0 (6.3; 7.6)
II	43 [1.3]	55 [5.7]	45 [10.1]	143 [2.5]	2.6 (2.2; 3.0)	16 [0.5]	30 [2.9]	23 [3.6]	69 [1.2]	1.1 (0.8; 1.4)
III	26 [0.8]	70 [7.3]	53 [11.9]	149 [2.6]	2.7 (2.3; 3.1)	10 [0.3]	22 [2.2]	33 [5.1]	65 [1.1]	1.0 (0.8; 1.2)
IV	34 [1.0]	95 [9.9]	53 [11.9]	182 [3.2]	3.3 (2.8; 3.8)	15 [0.5]	16 [1.6]	45 [7.0]	76 [1.3]	1.1 (0.9; 1.4)
X/NA	32 [0.9]	56 [5.8]	33 [7.4]	128 [2.2]	2.3 (1.9; 2.7)	16 [0.5]	27 [2.7]	18 [2.8]	69 [1.2]	1.1 (0.9; 1.4)

1.2.2. Kidney cancer incidence by pathological stage (pStage), sex and age group: number of new diagnoses, crude and age-standardised incidence rates, 2023

pStage	Males					Females				
	N[CR]				ESR2013 (95%CI)	N[CR]				ESR2013 (95%CI)
	15-59	60-74	75+	All ages		15-59	60-74	75+	All ages	
I	251 [7.5]	378 [39.4]	149 [33.5]	778 [13.5]	13.9 (12.9; 14.8)	105 [3.2]	168 [16.5]	82 [12.7]	355 [6.0]	5.9 (5.2; 6.5)
II	32 [0.9]	44 [4.6]	27 [6.1]	103 [1.8]	1.9 (1.5; 2.2)	16 [0.5]	18 [1.8]	15 [2.3]	49 [0.8]	0.8 (0.6; 1.0)
III	50 [1.5]	102 [10.6]	55 [12.4]	207 [3.6]	3.7 (3.2; 4.3)	22 [0.7]	39 [3.8]	33 [5.1]	94 [1.6]	1.5 (1.2; 1.8)
IV	20 [0.6]	27 [2.8]	15 [3.4]	62 [1.1]	1.1 (0.8; 1.4)	4 [0.1]	4 [0.4]	9 [1.4]	17 [0.3]	0.3 (0.1; 0.4)
X/NA	37 [1.1]	135 [14.1]	188 [42.2]	367 [6.4]	6.9 (6.2; 7.6)	21 [0.6]	43 [4.2]	127 [19.7]	199 [3.4]	2.9 (2.5; 3.3)

1.2.3. Kidney cancer incidence by stage, sex and age group: number of new diagnoses, crude and age-standardised incidence rates, 2023

Stage	Males					Females				
	N[CR]				ESR2013 (95%CI)	N[CR]				ESR2013 (95%CI)
	15-59	60-74	75+	All ages		15-59	60-74	75+	All ages	
I	269 [8.0]	447 [46.6]	264 [59.3]	980 [17.0]	17.7 (16.6; 18.8)	114 [3.4]	192 [18.9]	152 [23.6]	458 [7.7]	7.3 (6.7; 8.0)
II	31 [0.9]	44 [4.6]	29 [6.5]	104 [1.8]	1.9 (1.5; 2.3)	15 [0.5]	19 [1.9]	19 [2.9]	53 [0.9]	0.8 (0.6; 1.1)
III	48 [1.4]	88 [9.2]	73 [16.4]	209 [3.6]	3.8 (3.3; 4.3)	22 [0.7]	38 [3.7]	44 [6.8]	104 [1.8]	1.6 (1.3; 2.0)
IV	37 [1.1]	97 [10.1]	57 [12.8]	191 [3.3]	3.5 (3.0; 4.0)	15 [0.5]	16 [1.6]	47 [7.3]	78 [1.3]	1.2 (0.9; 1.4)
X/NA	5 [0.1]	10 [1.0]	11 [2.5]	33 [0.6]	0.6 (0.4; 0.8)	2 [0.1]	7 [0.7]	4 [0.6]	21 [0.4]	0.3 (0.2; 0.5)

2. CANCER INCIDENCE TRENDS



2.1. Kidney cancer incidence trends: by region

2.1.1. Kidney cancer incidence trends in males, by region: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023

Region	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	AAPC, % (95%CI)	Period
Belgium N	816	845	859	895	953	964	995	1,007	1,051	1,070	1,080	1,152	1,191	1,140	1,175	1,310	1,281	1,304	1,377	1,517		
CR	16.0	16.5	16.7	17.3	18.2	18.3	18.7	18.8	19.4	19.6	19.7	20.9	21.5	20.5	21.0	23.3	22.6	23.0	24.1	26.3		
ESR2013	19.1	19.6	19.7	20.2	21.3	21.3	21.9	21.2	22.1	22.2	22.2	23.3	23.7	22.5	22.8	25.1	24.3	24.3	25.3	27.5	1.5 (1.3; 1.8)	2004-2023
Brussels N	57	70	42	56	76	62	74	69	82	84	67	84	79	65	91	95	80	84	93	70		
CR	11.9	14.5	8.6	11.3	15.0	12.0	14.0	12.7	14.8	15.0	11.8	14.7	13.6	11.2	15.5	16.0	13.4	14.0	15.5	11.5		
ESR2013	16.4	20.4	11.9	16.0	22.2	16.8	19.6	17.6	22.4	22.4	17.9	21.2	19.9	16.7	23.3	23.1	20.0	20.3	23.0	17.1	1.2 (0.0; 2.5)	2004-2023
Flanders N	502	522	540	571	584	600	656	650	662	668	714	716	740	743	741	818	850	797	901	1,004		
CR	16.9	17.5	18.0	18.9	19.2	19.6	21.3	20.9	21.1	21.2	22.6	22.5	23.1	23.1	22.9	25.1	25.9	24.2	27.2	29.9		
ESR2013	19.6	19.9	20.5	21.1	21.3	21.9	23.9	22.4	22.8	22.8	24.0	23.8	24.0	23.8	23.3	25.4	26.2	24.1	26.8	29.4	1.6 (1.3; 1.9)	2004-2023
Wallonia N	257	253	277	268	293	302	265	288	307	318	299	352	372	332	343	397	351	423	383	443		
CR	15.7	15.4	16.7	16.1	17.5	17.9	15.6	16.8	17.8	18.3	17.2	20.1	21.2	18.8	19.4	22.4	19.7	23.7	21.4	24.6		
ESR2013	18.8	18.7	20.2	19.6	21.0	21.1	18.5	19.7	20.2	21.0	19.5	22.6	24.1	21.1	21.6	24.8	21.1	25.3	22.6	26.0	1.4 (0.8; 1.9)	2004-2023

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

2.1.2. Kidney cancer incidence trends in females, by region: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023

Region	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	AAPC, % (95%CI)	Period
Belgium N	526	536	534	522	547	528	560	658	602	619	615	591	639	652	642	686	651	661	698	714	0.6 (0.3; 0.9)	2004-2023
CR	9.9	10.0	9.9	9.7	10.1	9.6	10.1	11.8	10.7	11.0	10.8	10.4	11.2	11.3	11.1	11.8	11.2	11.3	11.9	12.0		
ESR2013	10.2	10.2	10.1	9.8	10.1	9.7	10.2	11.6	10.6	10.8	10.7	10.2	10.8	11.0	10.8	11.3	10.6	10.7	11.2	11.3		
Brussels N	28	33	35	27	34	36	38	45	40	49	42	42	41	30	37	41	48	41	45	43	1.5 (0.5; 2.5)	2004-2023
CR	5.4	6.3	6.6	5.1	6.3	6.5	6.8	7.8	6.8	8.3	7.0	7.0	6.7	4.9	6.0	6.7	7.7	6.6	7.2	6.8		
ESR2013	6.0	7.1	7.6	5.9	7.2	7.4	7.8	8.9	8.3	10.2	8.8	8.8	8.2	6.2	7.7	8.2	9.1	7.7	8.7	8.3		
																					5.1 (1.3; 9.0)	2004-2010
																					-0.1 (-1.6; 1.4)	2011-2023
Flanders N	350	337	336	348	352	343	373	413	388	386	401	372	417	415	432	462	421	420	431	480	0.4 (0.1; 0.8)	2004-2023
CR	11.5	11.0	10.9	11.2	11.3	10.9	11.8	12.9	12.1	11.9	12.4	11.4	12.7	12.6	13.0	13.9	12.6	12.5	12.7	14.0		
ESR2013	11.6	10.9	10.8	11.1	10.9	10.6	11.4	12.3	11.3	11.2	11.5	10.7	11.7	11.7	12.0	12.6	11.3	11.2	11.5	12.6		
Wallonia N	148	166	163	147	161	149	149	200	174	184	172	177	181	207	173	183	182	200	222	191	0.7 (0.1; 1.3)	2004-2023
CR	8.5	9.5	9.3	8.3	9.1	8.3	8.3	11.0	9.6	10.1	9.4	9.6	9.8	11.2	9.3	9.8	9.8	10.7	11.9	10.2		
ESR2013	8.8	9.8	9.3	8.4	9.4	8.4	8.6	11.0	9.8	10.2	9.5	9.7	9.8	11.1	9.2	9.6	9.4	10.3	11.3	9.6		

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

2.2. Kidney cancer incidence trends: by tumour stage

2.2.1. Kidney cancer incidence trends by stage and sex: number of new diagnoses, crude and age-standardised incidence rates, 2019-2023, including average annual percentage change from 2004 onwards

Stage	Males							Females						
	2019	2020	2021	2022	2023	AAPC, % (95%CI)	Period	2019	2020	2021	2022	2023	AAPC, % (95%CI)	Period
I	N	738	754	766	845	980		388	380	385	423	458		
	CR	13.1	13.3	13.5	14.8	17.0		6.7	6.5	6.6	7.2	7.7		
	ESR2013	14.0	14.2	14.2	15.4	17.7	4.6 (4.2; 5.0) 2004-2023	6.5	6.2	6.3	6.9	7.3	3.0 (2.6; 3.4) 2004-2023	
							6.9 (5.4; 8.3) 2004-2010						5.8 (4.4; 7.2) 2004-2011	
							3.6 (3.0; 4.1) 2011-2023						1.4 (0.7; 2.2) 2012-2023	
II	N	130	105	110	114	104		49	53	62	59	53		
	CR	2.3	1.9	1.9	2.0	1.8		0.8	0.9	1.1	1.0	0.9		
	ESR2013	2.5	2.0	2.1	2.1	1.9	-0.3 (-1.3; 0.7) 2004-2023	0.8	0.9	1.0	0.9	0.8	-0.1 (-1.4; 1.3) 2004-2023	
III	N	179	181	195	178	209		111	95	94	94	104		
	CR	3.2	3.2	3.4	3.1	3.6		1.9	1.6	1.6	1.6	1.8		
	ESR2013	3.5	3.4	3.7	3.3	3.8	1.6 (0.9; 2.3) 2004-2023	1.9	1.5	1.5	1.5	1.6	1.1 (0.4; 1.8) 2004-2023	
							8.3 (3.9; 12.8) 2004-2008							
							-1.6 (-4.7; 1.6) 2009-2012							
							0.4 (-0.7; 1.6) 2013-2023							
IV	N	205	188	180	200	191		100	87	89	101	78		
	CR	3.6	3.3	3.2	3.5	3.3		1.7	1.5	1.5	1.7	1.3		
	ESR2013	4.0	3.6	3.4	3.7	3.5	0.7 (0.0; 1.4) 2004-2023	1.6	1.4	1.4	1.6	1.2	-0.3 (-1.3; 0.6) 2004-2023	
X/NA	N	58	53	53	40	33		38	36	31	21	21		
	CR	1.0	0.9	0.9	0.7	0.6		0.7	0.6	0.5	0.4	0.4		
	ESR2013	1.1	1.0	1.0	0.7	0.6	-9.0 (-9.8; -8.1) 2004-2023	0.6	0.6	0.5	0.3	0.3	-8.8 (-10.0; -7.7) 2004-2023	

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

2.3. Kidney cancer incidence trends: by age group

2.3.1. Kidney cancer incidence trends in males, by age group: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023

Age	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	AAPC, % (95%CI)	Period
15-59 N	274	243	271	284	302	289	287	313	323	337	319	343	333	313	297	347	313	357	317	390		
CR	8.6	7.6	8.4	8.8	9.3	8.8	8.7	9.5	9.7	10.1	9.6	10.3	10.0	9.4	8.9	10.4	9.4	10.7	9.5	11.6		
ESR2013	9.1	7.9	8.7	9.1	9.6	9.1	8.9	9.6	9.8	10.2	9.6	10.2	9.9	9.2	8.7	10.2	9.2	10.5	9.3	11.5	0.8 (0.3; 1.4)	2004-2023
60-74 N	361	385	393	385	426	429	436	439	454	445	466	519	548	513	545	582	611	589	662	686		
CR	53.0	56.2	57.2	55.0	59.8	59.0	58.8	58.1	59.0	56.8	58.5	63.9	65.8	59.9	62.0	64.8	66.6	63.0	70.0	71.5		
ESR2013	52.8	56.0	57.2	55.8	60.7	59.9	59.6	58.8	60.2	57.3	60.0	65.3	67.4	61.1	62.8	65.7	67.4	63.8	71.0	72.4	1.3 (0.9; 1.6)	2004-2023
75+ N	168	205	187	220	223	237	266	242	269	280	283	286	297	309	326	371	346	351	392	434		
CR	57.3	67.7	59.5	67.5	66.2	68.6	75.1	67.0	72.9	74.5	73.8	73.1	75.2	78.3	82.1	91.8	83.7	84.4	90.9	97.5		
ESR2013	53.8	61.0	56.1	62.1	63.1	66.6	74.8	63.4	70.0	74.1	72.2	71.8	73.2	77.3	80.4	90.3	83.9	83.7	89.5	96.1	2.6 (2.2; 3.0)	2004-2023

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

2.3.2. Kidney cancer incidence trends in females, by age group: number of new diagnoses, crude and age-standardised incidence rates, including average annual percentage change, 2004-2023

Age	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	AAPC, % (95%CI)	Period
15-59 N	144	146	129	129	140	138	131	179	163	155	148	149	141	134	152	134	146	157	157	168		
CR	4.6	4.6	4.1	4.0	4.4	4.3	4.0	5.5	5.0	4.7	4.5	4.5	4.3	4.1	4.6	4.1	4.4	4.8	4.8	5.0		
ESR2013	4.8	4.8	4.2	4.1	4.5	4.3	4.1	5.5	5.0	4.7	4.5	4.5	4.3	4.0	4.6	4.0	4.4	4.7	4.7	5.1	0.1 (-0.6; 0.8)	2004-2023
60-74 N	218	217	221	211	215	212	219	233	217	240	228	231	252	292	253	279	255	240	269	272		
CR	28.1	28.0	28.6	27.1	27.3	26.5	27.0	28.3	26.0	28.3	26.6	26.5	28.2	31.8	26.9	29.1	26.1	24.1	26.8	26.7		
ESR2013	27.6	27.5	28.2	26.9	27.3	26.7	27.3	28.3	26.4	28.7	27.0	26.9	28.9	32.2	27.1	29.2	26.3	24.3	26.8	26.8	-0.1 (-0.6; 0.3)	2004-2023
75+ N	157	164	174	173	185	171	204	236	216	220	231	203	236	216	231	265	239	259	262	266		
CR	30.2	30.9	32.0	31.0	32.5	29.6	34.8	39.8	36.0	36.4	37.9	32.9	38.3	35.3	37.8	43.1	38.5	41.8	41.3	41.2		
ESR2013	30.2	30.0	31.1	30.6	31.8	28.8	35.1	39.3	35.8	36.2	38.4	33.8	37.4	35.7	39.2	44.5	38.6	42.4	43.2	42.3	2.0 (1.5; 2.5)	2004-2023

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

3. CANCER PREVALENCE



3.1. Kidney cancer prevalence: by region

3.1.1. *Kidney cancer prevalence by region and sex: number of prevalent cases, crude and age-standardised prevalence rates on 31/12/2023*

Region		Males					Females				
		1-year	5-year	10-year	15-year	20-year	1-year	5-year	10-year	15-year	20-year
Belgium	N	1,396	5,271	8,428	10,444	11,663	669	2,675	4,510	5,806	6,605
	CR	24.1	90.9	145.4	180	201	11.2	44.8	75.6	97	111
	ESR2013	24.8	94.1	151.0	187.8	210.3	10.5	41.8	69.9	89.4	101.3
Brussels	N	63	311	522	660	751	41	175	293	387	434
	CR	10.3	50.8	85.3	107.8	122.7	6.4	27.5	46.0	60.7	68.1
	ESR2013	15.2	74.6	127.7	163.3	187.8	7.8	33.1	56.0	73.6	82.1
Flanders	N	924	3,395	5,387	6,677	7,423	453	1,739	2,911	3,710	4,217
	CR	27.4	100.5	159.5	197.7	219.8	13.2	50.5	84.5	107.7	122.4
	ESR2013	26.6	97.9	155.6	193.1	215.0	11.8	44.8	74.4	94.1	106.5
Wallonia	N	409	1,565	2,519	3,107	3,489	175	761	1,306	1,709	1,954
	CR	22.6	86.6	139.4	171.9	193.0	9.3	40.4	69.3	90.7	103.7
	ESR2013	23.6	90.9	146.9	181.8	205.2	8.8	37.9	64.6	84.1	95.7

4. CANCER SURVIVAL



4.1. Kidney cancer survival: by region

4.1.1. Kidney cancer survival by region, sex and age group: number at risk and net survival probabilities, 2014-2023

Net Survival Probability, 2014-2023						
Region	Age	N at risk	1-y (95%CI)	3-y (95%CI)	5-y (95%CI)	10-y (95%CI)
Total	All	18,465	89.0% (88.5%; 89.5%)	82.2% (81.5%; 83.0%)	78.5% (77.6%; 79.5%)	70.3% (67.6%; 73.0%)
Males						
Belgium	All ages	12,111	88.7% (88.1%; 89.4%)	82.1% (81.2%; 83.0%)	78.3% (77.1%; 79.6%)	69.7% (66.2%; 73.4%)
	15-59	3,234	93.9% (93.0%; 94.7%)	88.8% (87.6%; 89.9%)	86.4% (85.1%; 87.8%)	80.2% (77.9%; 82.6%)
	60-74	5,573	90.6% (89.8%; 91.5%)	83.8% (82.6%; 85.0%)	79.3% (77.9%; 80.8%)	71.3% (68.4%; 74.3%)
	75+	3,316	80.5% (78.9%; 82.2%)	72.8% (70.5%; 75.2%)	68.8% (65.5%; 72.2%)	56.5% (45.9%; 69.5%)
Brussels	All ages	773	87.5% (85.0%; 90.2%)	80.1% (76.6%; 83.7%)	75.9% (71.3%; 80.8%)	57.2% (36.2%; 90.4%)
	15-59	269	90.3% (86.8%; 94.0%)	85.2% (80.9%; 89.8%)	82.5% (77.5%; 87.7%)	70.8% (62.4%; 80.4%)
	60-74	317	89.6% (86.0%; 93.3%)	81.1% (76.1%; 86.4%)	74.4% (68.3%; 81.0%)	71.7% (62.5%; 82.4%)
	75+	187	80.0% (73.5%; 87.1%)	70.9% (61.9%; 81.1%)	68.8% (55.8%; 84.9%)	21.3% (4.4%; 102.7%)
Flanders	All ages	7,755	88.9% (88.1%; 89.7%)	82.9% (81.8%; 84.1%)	79.9% (78.4%; 81.4%)	74.8% (71.2%; 78.5%)
	15-59	1,906	94.6% (93.5%; 95.7%)	89.4% (87.9%; 91.0%)	86.9% (85.1%; 88.7%)	83.1% (80.3%; 86.0%)
	60-74	3,502	90.9% (89.8%; 92.0%)	84.9% (83.4%; 86.4%)	81.7% (79.8%; 83.6%)	74.8% (71.0%; 78.7%)
	75+	2,358	81.4% (79.5%; 83.3%)	75.0% (72.2%; 77.8%)	71.6% (67.8%; 75.6%)	68.1% (58.1%; 79.7%)
Wallonia	All ages	3,584	88.7% (87.5%; 89.8%)	80.7% (79.1%; 82.3%)	75.5% (73.4%; 77.8%)	61.8% (56.7%; 67.2%)

Net Survival Probability, 2014-2023						
Region	Age	N at risk	1-y (95%CI)	3-y (95%CI)	5-y (95%CI)	10-y (95%CI)
	15-59	1,060	93.5% (92.0%; 95.1%)	88.5% (86.4%; 90.5%)	86.6% (84.3%; 89.0%)	77.6% (73.4%; 82.1%)
	60-74	1,754	90.3% (88.9%; 91.8%)	82.1% (80.0%; 84.2%)	75.6% (73.0%; 78.3%)	64.3% (59.6%; 69.4%)
	75+	771	78.2% (74.8%; 81.6%)	66.7% (62.1%; 71.6%)	60.2% (53.3%; 67.9%)	29.8% (15.2%; 58.5%)
Females						
Belgium	All ages	6,354	89.5% (88.7%; 90.4%)	82.6% (81.3%; 83.8%)	78.9% (77.3%; 80.5%)	71.4% (67.6%; 75.4%)
	15-59	1,459	95.4% (94.3%; 96.5%)	91.7% (90.2%; 93.2%)	89.2% (87.4%; 91.0%)	85.3% (82.6%; 88.1%)
	60-74	2,529	92.3% (91.2%; 93.4%)	84.3% (82.6%; 85.9%)	80.7% (78.7%; 82.6%)	75.5% (72.3%; 78.9%)
	75+	2,369	83.0% (81.3%; 84.8%)	75.2% (72.7%; 77.8%)	70.7% (67.2%; 74.3%)	57.6% (48.6%; 68.2%)
Brussels	All ages	395	91.1% (87.9%; 94.3%)	84.0% (79.4%; 88.8%)	78.3% (72.4%; 84.7%)	86.7% (77.9%; 96.4%)
	15-59	119	91.8% (87.0%; 96.9%)	87.5% (81.5%; 94.0%)	85.3% (78.5%; 92.7%)	83.0% (74.7%; 92.2%)
	60-74	139	92.3% (87.8%; 97.2%)	85.9% (79.5%; 92.7%)	84.8% (77.6%; 92.5%)	84.4% (74.1%; 96.1%)
	75+	137	89.2% (82.8%; 96.0%)	79.2% (69.5%; 90.2%)	65.7% (52.9%; 81.6%)	92.2% (68.8%; 123.5%)
Flanders	All ages	4,123	89.6% (88.5%; 90.7%)	83.2% (81.7%; 84.8%)	79.6% (77.5%; 81.7%)	70.6% (65.4%; 76.1%)
	15-59	858	96.3% (95.0%; 97.6%)	93.2% (91.4%; 95.1%)	90.8% (88.5%; 93.0%)	87.3% (84.0%; 90.7%)
	60-74	1,594	92.8% (91.5%; 94.2%)	85.3% (83.3%; 87.4%)	81.7% (79.3%; 84.2%)	78.4% (74.3%; 82.7%)
	75+	1,673	83.1% (81.0%; 85.3%)	76.1% (73.1%; 79.2%)	71.8% (67.6%; 76.2%)	53.2% (42.3%; 66.9%)
Wallonia	All ages	1,837	89.1% (87.5%; 90.7%)	80.8% (78.7%; 83.1%)	77.5% (74.9%; 80.3%)	69.9% (65.0%; 75.3%)
	15-59	483	94.6% (92.6%; 96.7%)	90.0% (87.2%; 92.8%)	87.3% (84.0%; 90.6%)	82.5% (77.2%; 88.0%)
	60-74	796	91.2% (89.2%; 93.3%)	81.9% (78.9%; 84.9%)	77.7% (74.3%; 81.3%)	67.9% (62.0%; 74.3%)
	75+	559	81.3% (77.6%; 85.1%)	71.6% (66.6%; 76.8%)	68.6% (62.3%; 75.6%)	61.8% (48.9%; 78.1%)

4.2. Kidney cancer survival: by tumour stage

4.2.1. Kidney cancer survival by clinical stage (cStage) and sex: number at risk and net survival probabilities, 2014-2023

cStage	Net Survival Probability, 2014-2023						
	N at risk	1-y (95%CI)	2-y (95%CI)	3-y (95%CI)	4-y (95%CI)	5-y (95%CI)	10-y (95%CI)
Total	18,465	89.0% (88.5%; 89.5%)	85.0% (84.4%; 85.6%)	82.2% (81.5%; 83.0%)	80.5% (79.7%; 81.3%)	78.5% (77.6%; 79.5%)	70.3% (67.6%; 73.0%)
Males							
All	12,111	88.7% (88.1%; 89.4%)	84.8% (84.0%; 85.5%)	82.1% (81.2%; 83.0%)	80.5% (79.5%; 81.5%)	78.3% (77.1%; 79.6%)	69.7% (66.2%; 73.4%)
I	5,524	97.4% (96.8%; 98.0%)	96.4% (95.5%; 97.2%)	95.0% (93.9%; 96.2%)	94.4% (93.1%; 95.8%)	92.9% (91.0%; 94.7%)	88.6% (83.6%; 94.0%)
II	1,050	95.8% (94.1%; 97.4%)	93.2% (90.9%; 95.4%)	91.1% (88.3%; 94.0%)	90.1% (86.9%; 93.6%)	87.0% (82.9%; 91.3%)	69.0% (58.7%; 81.3%)
III	849	84.1% (81.4%; 86.9%)	77.9% (74.7%; 81.3%)	73.7% (70.0%; 77.5%)	68.1% (63.9%; 72.5%)	64.4% (59.8%; 69.4%)	54.6% (43.7%; 68.3%)
IV	1,719	52.8% (50.4%; 55.3%)	38.7% (36.3%; 41.2%)	31.1% (28.7%; 33.6%)	26.0% (23.6%; 28.5%)	22.2% (19.9%; 24.9%)	10.0% (6.6%; 15.2%)
X/NA	3,071	92.2% (91.1%; 93.4%)	89.0% (87.6%; 90.4%)	86.9% (85.3%; 88.6%)	86.2% (84.4%; 88.0%)	84.5% (82.4%; 86.6%)	74.5% (68.2%; 81.4%)
Females							
All	6,354	89.5% (88.7%; 90.4%)	85.4% (84.3%; 86.4%)	82.6% (81.3%; 83.8%)	80.5% (79.1%; 81.9%)	78.9% (77.3%; 80.5%)	71.4% (67.6%; 75.4%)
I	2,887	98.6% (97.8%; 99.3%)	96.8% (95.6%; 97.9%)	94.7% (93.2%; 96.2%)	93.3% (91.4%; 95.2%)	93.0% (90.7%; 95.5%)	87.7% (80.4%; 95.6%)
II	564	92.7% (90.1%; 95.3%)	89.7% (86.5%; 93.1%)	86.7% (82.8%; 90.8%)	86.1% (81.5%; 90.8%)	82.2% (76.9%; 87.9%)	75.5% (62.6%; 91.2%)
III	474	84.9% (81.4%; 88.5%)	77.2% (73.0%; 81.8%)	74.4% (69.6%; 79.4%)	70.1% (64.7%; 76.0%)	67.7% (61.6%; 74.3%)	46.5% (28.6%; 75.8%)
IV	829	50.9% (47.5%; 54.5%)	36.0% (32.7%; 39.6%)	27.5% (24.3%; 31.1%)	22.9% (19.8%; 26.5%)	18.7% (15.7%; 22.3%)	12.0% (8.8%; 16.5%)
X/NA	1,634	93.6% (92.2%; 95.0%)	91.0% (89.3%; 92.8%)	89.7% (87.7%; 91.7%)	87.9% (85.7%; 90.3%)	86.5% (84.0%; 89.2%)	78.4% (73.3%; 83.9%)

4.2.2. Kidney cancer survival by pathological stage (pStage), and sex: number at risk and net survival probabilities, 2014-2023

Net Survival Probability, 2014-2023							
pStage	N at risk	1-y (95%CI)	2-y (95%CI)	3-y (95%CI)	4-y (95%CI)	5-y (95%CI)	10-y (95%CI)
Total	18,465	89.0% (88.5%; 89.5%)	85.0% (84.4%; 85.6%)	82.2% (81.5%; 83.0%)	80.5% (79.7%; 81.3%)	78.5% (77.6%; 79.5%)	70.3% (67.6%; 73.0%)
Males							
All	12,111	88.7% (88.1%; 89.4%)	84.8% (84.0%; 85.5%)	82.1% (81.2%; 83.0%)	80.5% (79.5%; 81.5%)	78.3% (77.1%; 79.6%)	69.7% (66.2%; 73.4%)
I	6,057	99.9% (99.6%; 100.3%)	99.7% (99.1%; 100.3%)	99.2% (98.4%; 100.0%)	99.4% (98.5%; 100.4%)	98.7% (97.5%; 100.0%)	95.5% (91.8%; 99.3%)
II	963	97.0% (95.6%; 98.5%)	95.4% (93.4%; 97.4%)	93.4% (90.9%; 95.9%)	93.0% (90.3%; 95.9%)	90.9% (87.5%; 94.4%)	80.2% (69.9%; 92.0%)
III	1,874	90.5% (89.0%; 92.0%)	84.6% (82.7%; 86.6%)	80.7% (78.4%; 83.0%)	76.8% (74.2%; 79.5%)	73.6% (70.7%; 76.7%)	57.5% (50.9%; 64.9%)
IV	654	57.8% (54.0%; 61.8%)	43.6% (39.8%; 47.8%)	36.0% (32.2%; 40.2%)	31.2% (27.3%; 35.5%)	27.5% (23.6%; 32.1%)	11.9% (7.2%; 19.7%)
X/NA	2,697	67.2% (65.3%; 69.2%)	58.0% (55.9%; 60.3%)	52.2% (49.8%; 54.7%)	48.3% (45.7%; 51.2%)	43.6% (40.3%; 47.1%)	28.4% (18.2%; 44.3%)
Females							
All	6,354	89.5% (88.7%; 90.4%)	85.4% (84.3%; 86.4%)	82.6% (81.3%; 83.8%)	80.5% (79.1%; 81.9%)	78.9% (77.3%; 80.5%)	71.4% (67.6%; 75.4%)
I	3,077	99.9% (99.4%; 100.4%)	99.7% (99.0%; 100.5%)	99.0% (98.0%; 100.0%)	98.3% (97.0%; 99.6%)	98.4% (96.9%; 99.9%)	92.8% (87.9%; 97.9%)
II	473	98.3% (96.6%; 100.1%)	96.3% (93.8%; 98.9%)	92.9% (89.5%; 96.5%)	93.1% (89.4%; 97.0%)	89.5% (84.8%; 94.5%)	87.7% (76.6%; 100.5%)
III	895	92.8% (90.8%; 94.8%)	86.6% (84.0%; 89.3%)	83.0% (80.0%; 86.2%)	79.1% (75.6%; 82.7%)	75.9% (72.0%; 80.1%)	61.5% (53.8%; 70.3%)
IV	280	60.6% (55.0%; 66.8%)	45.8% (40.1%; 52.4%)	35.2% (29.6%; 41.9%)	32.6% (26.9%; 39.4%)	29.1% (23.4%; 36.1%)	16.3% (7.4%; 35.8%)
X/NA	1,664	71.2% (68.8%; 73.6%)	61.8% (59.2%; 64.6%)	57.0% (54.0%; 60.1%)	52.9% (49.6%; 56.4%)	49.7% (45.8%; 53.9%)	42.3% (34.0%; 52.6%)

4.2.3. Kidney cancer survival by stage and sex: number at risk and net survival probabilities, 2014-2023

Net Survival Probability, 2014-2023							
Stage	N at risk	1-y (95%CI)	2-y (95%CI)	3-y (95%CI)	4-y (95%CI)	5-y (95%CI)	10-y (95%CI)
Total	18,465	89.0% (88.5%; 89.5%)	85.0% (84.4%; 85.6%)	82.2% (81.5%; 83.0%)	80.5% (79.7%; 81.3%)	78.5% (77.6%; 79.5%)	70.3% (67.6%; 73.0%)
Males							
All	12,111	88.7% (88.1%; 89.4%)	84.8% (84.0%; 85.5%)	82.1% (81.2%; 83.0%)	80.5% (79.5%; 81.5%)	78.3% (77.1%; 79.6%)	69.7% (66.2%; 73.4%)
I	7,074	98.0% (97.5%; 98.5%)	97.1% (96.4%; 97.8%)	96.1% (95.2%; 97.0%)	95.7% (94.6%; 96.9%)	94.4% (93.0%; 95.9%)	90.1% (86.3%; 94.1%)
II	1,034	95.9% (94.3%; 97.6%)	93.7% (91.5%; 95.9%)	91.1% (88.4%; 94.0%)	90.9% (87.8%; 94.1%)	88.6% (84.9%; 92.5%)	73.7% (63.4%; 85.7%)
III	1,797	88.9% (87.3%; 90.6%)	83.7% (81.7%; 85.8%)	80.3% (77.9%; 82.7%)	76.5% (73.8%; 79.3%)	73.9% (70.9%; 77.1%)	58.7% (51.9%; 66.4%)
IV	1,815	53.0% (50.7%; 55.4%)	38.9% (36.6%; 41.4%)	31.3% (29.0%; 33.8%)	26.3% (24.0%; 28.8%)	22.2% (19.9%; 24.8%)	10.3% (7.2%; 14.7%)
X/NA	500	73.2% (69.1%; 77.6%)	64.6% (59.8%; 69.7%)	59.3% (54.2%; 65.0%)	57.0% (51.5%; 63.2%)	52.3% (46.1%; 59.5%)	34.8% (16.4%; 74.1%)
Females							
All	6,354	89.5% (88.7%; 90.4%)	85.4% (84.3%; 86.4%)	82.6% (81.3%; 83.8%)	80.5% (79.1%; 81.9%)	78.9% (77.3%; 80.5%)	71.4% (67.6%; 75.4%)
I	3,757	98.8% (98.1%; 99.4%)	97.5% (96.6%; 98.4%)	96.1% (94.9%; 97.3%)	94.8% (93.3%; 96.4%)	94.6% (92.8%; 96.5%)	89.1% (84.3%; 94.1%)
II	536	92.6% (90.0%; 95.3%)	90.4% (87.2%; 93.7%)	86.2% (82.2%; 90.5%)	85.2% (80.7%; 90.0%)	82.0% (76.8%; 87.5%)	75.1% (63.1%; 89.5%)
III	918	89.8% (87.6%; 92.1%)	82.9% (80.0%; 85.8%)	80.1% (76.9%; 83.4%)	76.2% (72.6%; 80.1%)	73.4% (69.3%; 77.7%)	58.9% (50.6%; 68.5%)
IV	876	52.0% (48.7%; 55.5%)	37.2% (34.0%; 40.8%)	28.7% (25.6%; 32.3%)	24.6% (21.5%; 28.2%)	20.8% (17.7%; 24.4%)	11.9% (6.8%; 20.7%)
X/NA	300	78.0% (73.0%; 83.3%)	72.4% (66.7%; 78.6%)	70.2% (63.9%; 77.1%)	68.5% (61.5%; 76.3%)	64.4% (56.4%; 73.5%)	56.5% (40.4%; 79.0%)

5. CANCER SURVIVAL TRENDS



5.1. Kidney cancer survival trends: by tumour stage

5.1.1. Kidney cancer survival trends by stage and sex: number at risk and net survival probabilities, 2004-2023

Period	Stage	Males				Females			
		Net Survival Probability				Net Survival Probability			
		N at risk	1-y (95%CI)	3-y (95%CI)	5-y (95%CI)	N at risk	1-y (95%CI)	3-y (95%CI)	5-y (95%CI)
2004-2008	All	4,255	83.8% (82.6%; 85.0%)	75.6% (74.1%; 77.2%)	71.9% (70.1%; 73.7%)	2,576	85.0% (83.5%; 86.5%)	76.6% (74.7%; 78.6%)	71.4% (69.2%; 73.7%)
	I	1,705	96.5% (95.3%; 97.6%)	94.6% (92.8%; 96.4%)	93.6% (91.3%; 95.9%)	1,133	97.8% (96.6%; 99.1%)	95.5% (93.5%; 97.6%)	92.7% (89.9%; 95.6%)
	II	461	94.9% (92.4%; 97.5%)	88.0% (84.0%; 92.3%)	82.1% (77.0%; 87.4%)	237	95.8% (92.7%; 99.0%)	86.1% (80.8%; 91.8%)	80.9% (74.4%; 88.0%)
	III	666	87.9% (85.1%; 90.7%)	74.3% (70.4%; 78.4%)	67.0% (62.5%; 71.9%)	355	87.2% (83.5%; 91.1%)	73.4% (68.3%; 79.0%)	64.9% (59.0%; 71.4%)
	IV	689	45.3% (41.6%; 49.2%)	23.8% (20.6%; 27.4%)	18.3% (15.3%; 21.8%)	395	43.0% (38.3%; 48.3%)	21.8% (17.9%; 26.6%)	14.9% (11.4%; 19.5%)
	X/NA	747	80.1% (77.1%; 83.3%)	73.7% (70.0%; 77.5%)	69.8% (65.7%; 74.2%)	469	82.2% (78.5%; 86.0%)	74.1% (69.6%; 79.0%)	66.9% (61.7%; 72.6%)
2009-2013	All	4,943	86.4% (85.4%; 87.5%)	78.4% (77.0%; 79.8%)	74.1% (72.5%; 75.8%)	2,891	87.0% (85.7%; 88.4%)	79.8% (78.0%; 81.6%)	76.4% (74.4%; 78.5%)
	I	2,521	97.9% (97.1%; 98.8%)	96.7% (95.4%; 98.1%)	94.7% (92.8%; 96.6%)	1,533	98.6% (97.6%; 99.5%)	96.4% (94.8%; 98.1%)	95.2% (92.9%; 97.5%)
	II	461	95.6% (93.2%; 98.1%)	89.4% (85.4%; 93.6%)	84.3% (79.3%; 89.7%)	283	96.1% (93.3%; 99.0%)	93.7% (89.5%; 98.1%)	87.9% (82.1%; 94.0%)
	III	791	90.0% (87.6%; 92.5%)	75.1% (71.4%; 78.9%)	67.0% (62.8%; 71.6%)	401	88.9% (85.5%; 92.4%)	76.5% (71.7%; 81.6%)	71.0% (65.4%; 77.0%)
	IV	738	46.8% (43.2%; 50.6%)	23.0% (20.0%; 26.4%)	15.9% (13.2%; 19.1%)	400	41.8% (37.1%; 47.1%)	20.4% (16.6%; 25.1%)	12.8% (9.7%; 17.0%)
	X/NA	458	71.4% (67.1%; 76.0%)	61.5% (56.5%; 67.1%)	57.1% (51.4%; 63.5%)	287	76.9% (71.8%; 82.3%)	63.9% (57.7%; 70.9%)	60.7% (53.7%; 68.5%)
2014-2018	All	5,563	87.7% (86.7%; 88.7%)	81.0% (79.7%; 82.3%)	77.5% (75.9%; 79.2%)	3,053	89.4% (88.2%; 90.6%)	82.4% (80.7%; 84.1%)	78.5% (76.4%; 80.6%)
	I	3,104	97.9% (97.1%; 98.7%)	96.9% (95.7%; 98.2%)	95.6% (93.7%; 97.5%)	1,759	99.3% (98.4%; 100.1%)	96.5% (94.8%; 98.1%)	94.8% (92.5%; 97.0%)
	II	474	95.2% (92.8%; 97.7%)	90.7% (86.9%; 94.6%)	88.1% (83.3%; 93.3%)	261	94.7% (91.4%; 98.2%)	89.2% (84.0%; 94.8%)	85.5% (79.0%; 92.5%)

Period	Stage	Males				Females			
		Net Survival Probability				Net Survival Probability			
		N at risk	1-y (95%CI)	3-y (95%CI)	5-y (95%CI)	N at risk	1-y (95%CI)	3-y (95%CI)	5-y (95%CI)
	III	859	87.9% (85.5%; 90.4%)	77.8% (74.4%; 81.3%)	71.5% (67.5%; 75.7%)	424	88.1% (84.7%; 91.6%)	78.0% (73.4%; 82.9%)	71.2% (65.8%; 77.1%)
	IV	858	51.1% (47.8%; 54.7%)	28.4% (25.4%; 31.9%)	19.7% (16.9%; 23.0%)	425	51.7% (47.0%; 56.8%)	28.3% (24.0%; 33.4%)	20.1% (16.3%; 24.9%)
	X/NA	308	75.3% (70.1%; 80.8%)	62.1% (55.7%; 69.3%)	57.3% (49.6%; 66.2%)	194	78.2% (72.0%; 85.0%)	71.7% (64.0%; 80.4%)	64.1% (54.5%; 75.3%)
2019-2023	All	6,593	89.7% (88.8%; 90.5%)	83.1% (81.8%; 84.3%)	79.1% (77.3%; 80.9%)	3,317	89.7% (88.5%; 90.9%)	82.8% (81.1%; 84.6%)	79.4% (76.6%; 82.3%)
	I	3,991	98.0% (97.3%; 98.7%)	95.3% (94.0%; 96.6%)	93.3% (91.1%; 95.5%)	2,005	98.3% (97.4%; 99.3%)	95.9% (94.1%; 97.7%)	94.2% (90.5%; 98.0%)
	II	560	96.5% (94.4%; 98.7%)	91.2% (87.2%; 95.4%)	89.3% (83.5%; 95.5%)	275	90.6% (86.6%; 94.7%)	83.3% (77.3%; 89.7%)	76.3% (67.2%; 86.7%)
	III	938	89.8% (87.6%; 92.1%)	82.9% (79.6%; 86.2%)	77.3% (72.6%; 82.2%)	495	91.3% (88.4%; 94.2%)	81.9% (77.6%; 86.5%)	76.2% (70.2%; 82.7%)
	IV	957	54.7% (51.5%; 58.1%)	34.0% (30.7%; 37.6%)	25.4% (21.6%; 29.7%)	451	52.3% (47.7%; 57.3%)	29.2% (24.8%; 34.4%)	21.7% (16.9%; 27.9%)
	X/NA	192	70.0% (63.3%; 77.4%)	54.8% (46.7%; 64.3%)	41.2% (31.5%; 53.9%)	106	77.6% (69.5%; 86.7%)	67.0% (56.8%; 79.1%)	66.0% (52.6%; 83.0%)

6. CANCER MORTALITY



6.1. Kidney cancer mortality: by region

6.1.1. Kidney cancer mortality* by region and sex: number of cancer deaths, age-specific, crude and age-standardised mortality rates, 2021

N [CR]																						ESR2013 (95%CI)	
Region	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85-	90-	95-	All ages		
Males																							
Belgium	0	0	1	0	0	0	0	1	1	3	5	19	34	38	51	45	51	42	30	4	325	6.5	
	[0.0]	[0.0]	[0.3]	[0.0]	[0.0]	[0.0]	[0.0]	[0.3]	[0.3]	[0.8]	[1.3]	[4.7]	[9.4]	[12.4]	[19.2]	[25.8]	[39.0]	[54.1]	[106.9]	[73.3]	[5.7]	(5.8; 7.3)	
Brussels	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2	2	3	2	2	1	16	4.8	
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[2.5]	[2.9]	[0.0]	[9.6]	[12.0]	[17.4]	[35.5]	[39.6]	[92.0]	[214.1]	[2.7]	(2.4; 7.3)	
Flanders	0	0	1	0	0	0	0	0	0	2	2	11	24	27	30	31	32	29	22	1	212	6.7	
	[0.0]	[0.0]	[0.5]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.9]	[0.9]	[4.5]	[10.9]	[14.4]	[18.5]	[27.2]	[37.1]	[56.1]	[120.1]	[27.9]	[6.4]	(5.8; 7.6)	
Wallonia	0	0	0	0	0	0	0	1	1	1	2	7	10	9	19	12	16	11	6	2	97	6.6	
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.9]	[0.9]	[0.8]	[1.6]	[5.6]	[8.7]	[9.2]	[22.0]	[24.7]	[44.5]	[52.5]	[79.2]	[142.2]	[5.4]	(5.2; 7.9)	
Females																							
Belgium	0	0	0	0	0	0	1	1	0	1	0	3	12	18	23	25	38	41	20	4	187	2.7	
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.3]	[0.3]	[0.0]	[0.3]	[0.0]	[0.7]	[3.2]	[5.5]	[7.8]	[11.7]	[20.5]	[30.3]	[30.2]	[20.8]	[3.2]	(2.3; 3.1)	
Brussels	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	3	2	0	0	9	1.7	
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[3.0]	[0.0]	[4.1]	[4.6]	[6.2]	[21.9]	[19.7]	[0.0]	[0.0]	[1.4]	(0.6; 2.9)	

Region	N [CR]																				ESR2013 (95%CI)	
	0-	5-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85-	90-	95-	All ages	
Flanders	0	0	0	0	0	0	0	1	0	0	0	2	5	11	17	17	27	26	12	1	119	2.8
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.5]	[0.0]	[0.0]	[0.0]	[0.8]	[2.3]	[5.7]	[9.8]	[12.8]	[23.3]	[30.6]	[29.9]	[8.9]	[3.5]	(2.3; 3.4)
Wallonia	0	0	0	0	0	0	1	0	0	1	0	0	7	6	5	7	8	13	8	3	59	2.7
	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.0]	[0.9]	[0.0]	[0.0]	[0.8]	[0.0]	[0.0]	[5.8]	[5.5]	[5.0]	[11.0]	[14.5]	[32.5]	[39.2]	[49.7]	[3.2]	(2.0; 3.4)

7. CANCER MORTALITY TRENDS



7.1. Kidney cancer mortality trends: by region

7.1.1. Kidney cancer mortality* trends in males, by region: number of cancer deaths, crude and age-standardised mortality rates, including average annual percentage change, 2004-2021

Region		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC, % (95%CI)	Period
Belgium	N	312	313	307	348	345	332	353	313	335	352	359	338	359	327	324	351	307	325		
	CR	6.1	6.1	6.0	6.7	6.6	6.3	6.6	5.8	6.2	6.5	6.6	6.1	6.5	5.9	5.8	6.2	5.4	5.7		
	ESR2013	8.8	8.6	8.0	8.8	8.5	8.3	8.5	7.3	7.8	8.2	8.0	7.6	7.6	7.1	6.7	7.2	6.1	6.5		-1.7 (-2.3; -1.2) 2004-2021
Brussels	N	26	28	21	14	32	17	24	24	20	21	29	19	28	20	16	24	17	16		
	CR	5.4	5.8	4.3	2.8	6.3	3.3	4.6	4.4	3.6	3.7	5.1	3.3	4.8	3.4	2.7	4.1	2.8	2.7		
	ESR2013	8.8	8.6	7.5	4.8	9.6	4.8	7.2	7.0	5.9	6.5	8.7	5.3	8.2	5.4	4.8	7.3	4.7	4.8		-2.2 (-4.3; -0.1) 2004-2021
Flanders	N	218	195	206	223	217	198	221	196	205	226	216	218	231	189	215	210	203	212		
	CR	7.3	6.5	6.9	7.4	7.1	6.5	7.2	6.3	6.5	7.2	6.8	6.8	7.2	5.9	6.6	6.4	6.2	6.4		
	ESR2013	10.4	8.7	8.8	9.1	8.8	7.9	8.5	7.3	7.6	8.3	7.7	8.0	7.7	6.6	7.1	6.8	6.4	6.7		-2.2 (-2.7; -1.6) 2004-2021
Wallonia	N	68	90	80	111	96	117	108	93	110	105	114	101	100	118	93	117	87	97		
	CR	4.1	5.5	4.8	6.7	5.7	6.9	6.4	5.4	6.4	6.1	6.5	5.8	5.7	6.7	5.3	6.6	4.9	5.4		
	ESR2013	5.6	8.6	6.1	9.1	7.6	10.0	8.9	7.6	8.8	8.3	8.3	7.5	7.1	8.6	6.4	8.2	5.7	6.6		-0.3 (-1.7; 1.1) 2004-2021 4.2 (0.3; 8.3) 2004-2011 -3.4 (-5.8; -0.8) 2012-2021

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

7.1.2. Kidney cancer mortality* trends in females, by region: number of cancer deaths, crude and age-standardised mortality rates, including average annual percentage change, 2004-2021

Region		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC, % (95%CI)	Period
Belgium	N	247	220	210	238	223	216	231	193	207	261	235	176	234	196	191	203	205	187	-2.6 (-3.4; -1.7)	2004-2021
	CR	4.7	4.1	3.9	4.4	4.1	3.9	4.2	3.5	3.7	4.6	4.1	3.1	4.1	3.4	3.3	3.5	3.5	3.2		
	ESR2013	4.7	4.1	3.8	4.3	3.9	3.8	3.9	3.2	3.4	4.1	3.7	2.8	3.7	2.9	2.8	3.0	3.0	2.7		
Brussels	N	27	22	19	24	16	20	17	8	14	21	13	16	18	11	15	7	9	9	-6.1 (-8.4; -3.7)	2004-2021
	CR	5.2	4.2	3.6	4.5	3.0	3.6	3.0	1.4	2.4	3.5	2.2	2.7	3.0	1.8	2.5	1.1	1.5	1.4		
	ESR2013	5.0	4.4	3.6	4.9	3.1	3.5	3.4	1.7	2.8	3.4	2.7	3.2	3.2	2.3	2.3	1.1	1.3	1.7		
Flanders	N	143	130	127	129	136	123	145	129	131	178	151	102	142	117	116	132	130	119	-2.5 (-3.5; -1.4)	2004-2021
	CR	4.7	4.2	4.1	4.2	4.4	3.9	4.6	4.0	4.1	5.5	4.7	3.1	4.3	3.6	3.5	4.0	3.9	3.5		
	ESR2013	4.7	4.2	3.9	4.0	4.1	3.7	4.2	3.7	3.7	4.8	3.9	2.8	3.7	2.9	2.8	3.2	3.1	2.8		
Wallonia	N	77	68	64	85	71	73	69	56	62	62	71	58	74	68	60	64	66	59	-2.1 (-3.2; -1.0)	2004-2021
	CR	4.4	3.9	3.6	4.8	4.0	4.1	3.8	3.1	3.4	3.4	3.9	3.2	4.0	3.7	3.2	3.4	3.5	3.2		
	ESR2013	4.5	3.8	3.4	4.6	3.6	4.0	3.6	2.8	3.1	3.1	3.5	2.9	3.8	3.2	2.8	3.1	3.1	2.7		

Note: In case a change in trend is detected, an estimated APC per time segment is given as well as Average Annual Percentage Change (AAPC) for the full incidence period.

*Mortality statistics in Belgium are collected and managed by the three Regions (Flemish Region: Departement Zorg; Brussels-Capital Region: Observatorium voor Gezondheid en Welzijn van Brussel-Hoofdstad/ l'Observatoire de la Santé et du Social de Bruxelles-Capitale; Walloon Region: Agence Wallonne de la Santé, de la Protection sociale, du Handicap et des Familles (AVIQ)). The Directorate General Statistics Belgium is responsible for collecting and merging the data coming from the regional agencies. Mortality data used in this cancer fact sheet are collected from the Directorate General Statistics Belgium and encompasses the period 2004-2021.

Recommended reference: Cancer Fact Sheets 2023, Belgian Cancer Registry (BCR), 2025