



Belgian Cancer Registry



Cancer Fact Sheet **Central nervous system**

ICD10 : C71-C72

Belgium 2021

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Central Nervous System Cancers: 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

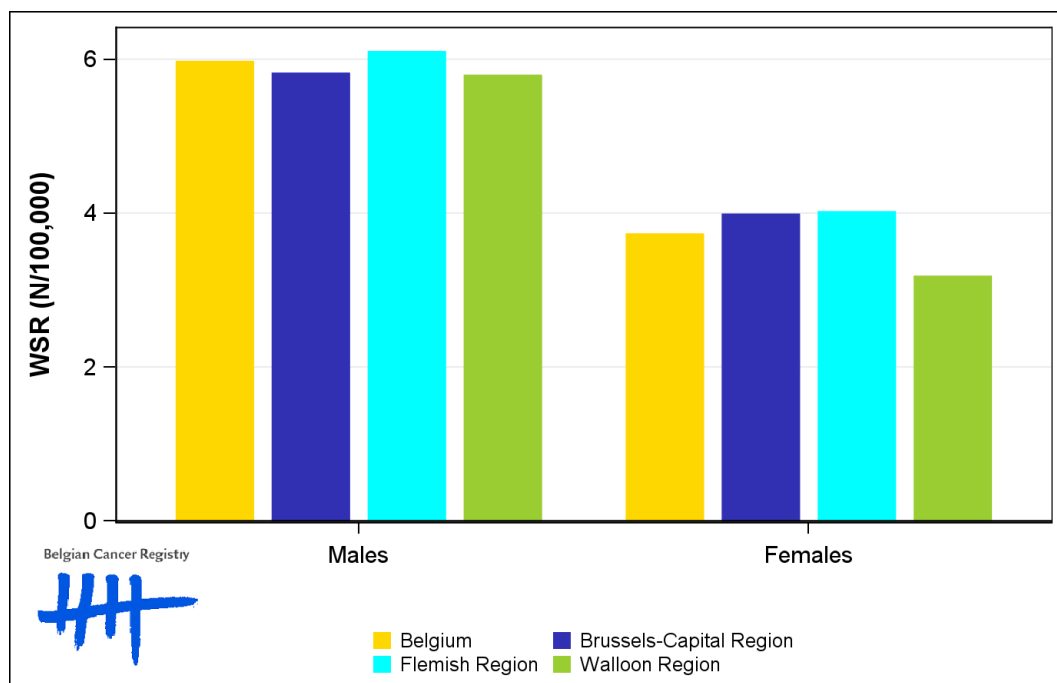
Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	59.2	526	9.3	7.5	6.0	0.61
Brussels-Capital Region	53.2	42	7.0	7.2	5.8	0.61
Flemish Region	60.5	330	10.0	7.8	6.1	0.63
Walloon Region	58.2	154	8.6	7.2	5.8	0.57

Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	61.0	353	6.0	4.6	3.7	0.37
Brussels-Capital Region	59.4	36	5.8	5.2	4.0	0.39
Flemish Region	61.9	226	6.7	5.0	4.0	0.40
Walloon Region	59.2	91	4.9	3.8	3.2	0.33

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 (%)



Figure 1: Central Nervous System Cancers: Age-standardised incidence rates by sex and region, 2021



1.2. Age-specific incidence rates

Table 2: Central Nervous System Cancers: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2021

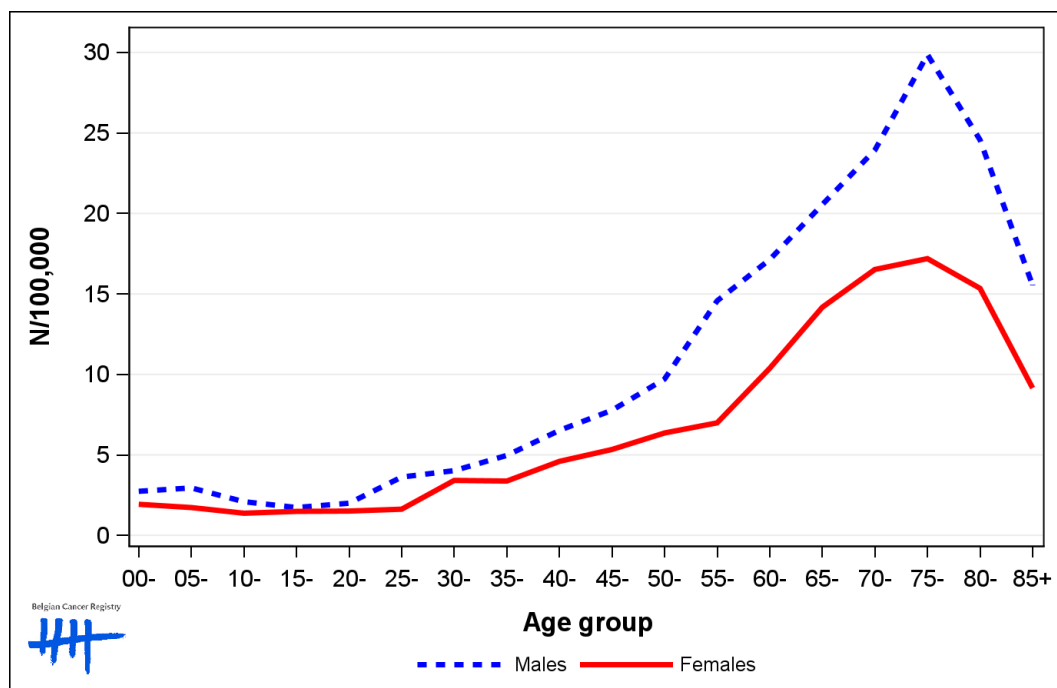
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	2.6	3.6	2.0	0.9	1.8	3.0	3.7	4.8	4.0	7.4	9.8	15.1	15.1	23.8	24.1	35.0	23.7	18.0	9.3	7.5	6.0
Females	2.7	1.6	1.2	1.3	0.9	1.6	2.9	3.5	2.1	4.8	4.6	7.5	10.2	13.8	16.2	20.2	17.8	8.2	6.0	4.6	3.7

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: Central Nervous System Cancers: Age-specific incidence rates by sex, 2017-2021



1.3. Trends in incidence

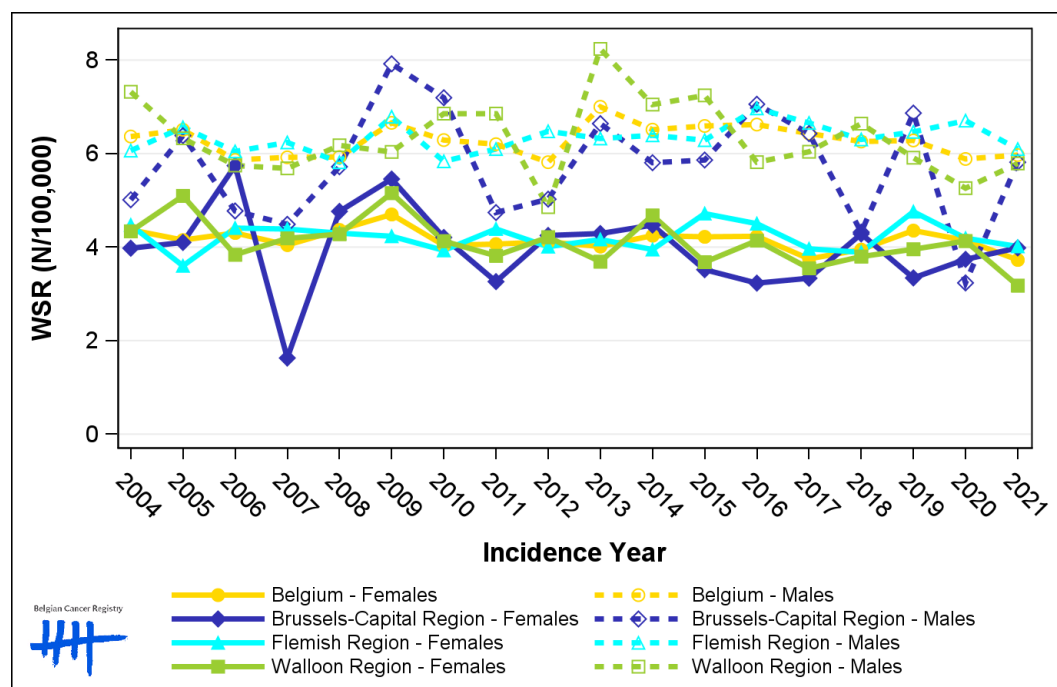
Table 3: Central Nervous System Cancers: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC	95% CI
Belgium	5.9	5.9	6.7	6.3	6.2	5.8	7.0	6.5	6.6	6.6	6.4	6.3	6.3	5.9	6.0	-0.1;0]	[-0.7; 0.5]
Brussels-Capital Region	4.5	5.7	7.9	7.2	4.7	5.0	6.6	5.8	5.9	7.1	6.4	4.3	6.9	3.2	5.8	-1.0	[-4.0; 2.1]
Flemish Region	6.2	5.8	6.8	5.8	6.1	6.5	6.3	6.4	6.3	7.0	6.7	6.3	6.5	6.7	6.1	0.4	[-0.2; 1.1]
Walloon Region	5.7	6.2	6.0	6.9	6.9	4.9	8.2	7.0	7.2	5.8	6.0	6.6	5.9	5.3	5.8	-0.4	[-2.0; 1.2]

Females	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AAPC	95% CI
Belgium	4.0	4.4	4.7	4.0	4.1	4.1	4.0	4.2	4.2	4.2	3.8	3.9	4.4	4.1	3.7	-0.5	[-1.2; 0.2]
Brussels-Capital Region	1.6	4.8	5.5	4.2	3.3	4.3	4.3	4.5	3.5	3.2	3.3	4.3	3.3	3.7	4.0	0.6	[-3.0; 4.4]
Flemish Region	4.4	4.3	4.2	3.9	4.4	4.0	4.2	3.9	4.7	4.5	4.0	3.9	4.8	4.2	4.0]-0.1;0[[-0.9; 0.8]
Walloon Region	4.2	4.3	5.2	4.1	3.8	4.2	3.7	4.7	3.7	4.1	3.5	3.8	4.0	4.1	3.2	-1.4	[-2.7; -0.2]

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 3: Central Nervous System Cancers: Age-standardised incidence rates (WSR) by incidence year, sex and region



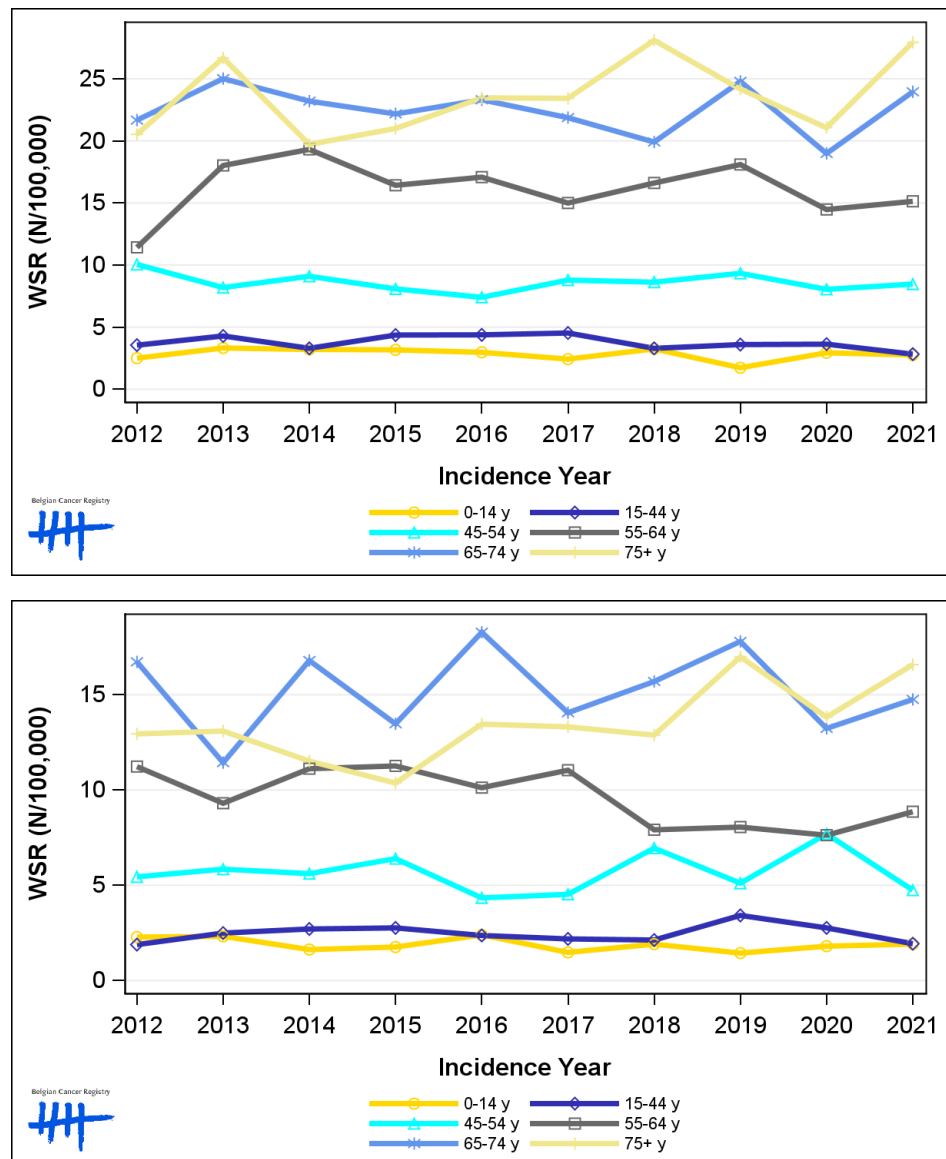
1.4. Incidence by broad age groups

Table 4: Central Nervous System Cancers: 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	440	535	502	502	524	510	519	545	480	526	5.8	7.0	6.5	6.6	6.6	6.4	6.3	6.3	5.9	6.0
0-14 y	24	32	31	30	30	24	32	16	29	27	2.5	3.3	3.2	3.2	3.0	2.4	3.3	1.7	2.9	2.8
15-44 y	83	99	78	101	102	102	77	87	84	67	3.6	4.3	3.3	4.4	4.4	4.5	3.3	3.6	3.6	2.8
45-54 y	83	68	75	67	62	71	71	76	64	67	10.1	8.2	9.1	8.1	7.4	8.8	8.6	9.3	8.0	8.5
55-64 y	76	121	131	114	120	108	122	133	109	116	11.4	18.0	19.3	16.4	17.1	15.0	16.6	18.1	14.5	15.1
65-74 y	98	116	110	108	117	114	108	138	107	137	21.7	25.0	23.2	22.2	23.3	21.9	19.9	24.8	19.0	24.0
75+ y	76	99	77	82	93	91	109	95	87	112	20.5	26.7	19.7	21.0	23.5	23.4	28.1	24.2	21.1	27.9
Females																				
All ages	343	320	354	344	365	336	350	398	363	353	4.1	4.0	4.2	4.2	4.2	3.8	3.9	4.4	4.1	3.7
0-14 y	21	21	15	16	23	14	18	13	17	17	2.3	2.3	1.6	1.8	2.4	1.5	1.9	1.4	1.8	1.9
15-44 y	44	55	61	63	56	50	50	77	66	45	1.9	2.5	2.7	2.8	2.4	2.2	2.1	3.4	2.8	1.9
45-54 y	44	47	45	52	34	36	55	41	60	36	5.4	5.8	5.6	6.4	4.3	4.5	7.0	5.1	7.7	4.7
55-64 y	77	64	77	80	72	80	59	60	58	68	11.2	9.3	11.1	11.3	10.1	11.0	7.9	8.1	7.6	8.9
65-74 y	84	60	88	72	101	80	93	108	82	93	16.7	11.4	16.8	13.5	18.3	14.1	15.7	17.8	13.2	14.8
75+ y	73	73	68	61	79	76	75	99	80	94	12.9	13.1	11.5	10.4	13.5	13.3	12.9	17.0	13.8	16.6

N=Number of invasive tumours
WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)

Figure 4: Central Nervous System Cancers: Age-standardised incidence rates (WSR) versus incidence year by broad age groups for males (top) and females (bottom), Belgium



2. Relative survival

Table 5: Central Nervous System Cancers: 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	2,441	21.0	[19.1, 22.9]	1,714	22.8	[20.5, 25.3]
Age group						
15-59 years	1,047	38.8	[35.4, 42.2]	652	44.8	[40.3, 49.2]
60-74 years	901	8.4	[6.1, 11.2]	639	12.2	[9.3, 15.5]
75+ years	493	3.6	[1.7, 6.9]	423	6.1	[3.7, 9.4]
Region						
Brussels-Capital Region	171	28.4	[21.1, 36.1]	142	27.4	[18.4, 37.2]
Flemish Region	1,551	21.3	[18.9, 23.8]	1,066	23.9	[21.0, 27.0]
Walloon Region	719	18.5	[15.3, 22.0]	506	19.5	[15.6, 23.8]

Figure 5: Central Nervous System Cancers: relative survival proportion by sex, Belgium 2017-2021

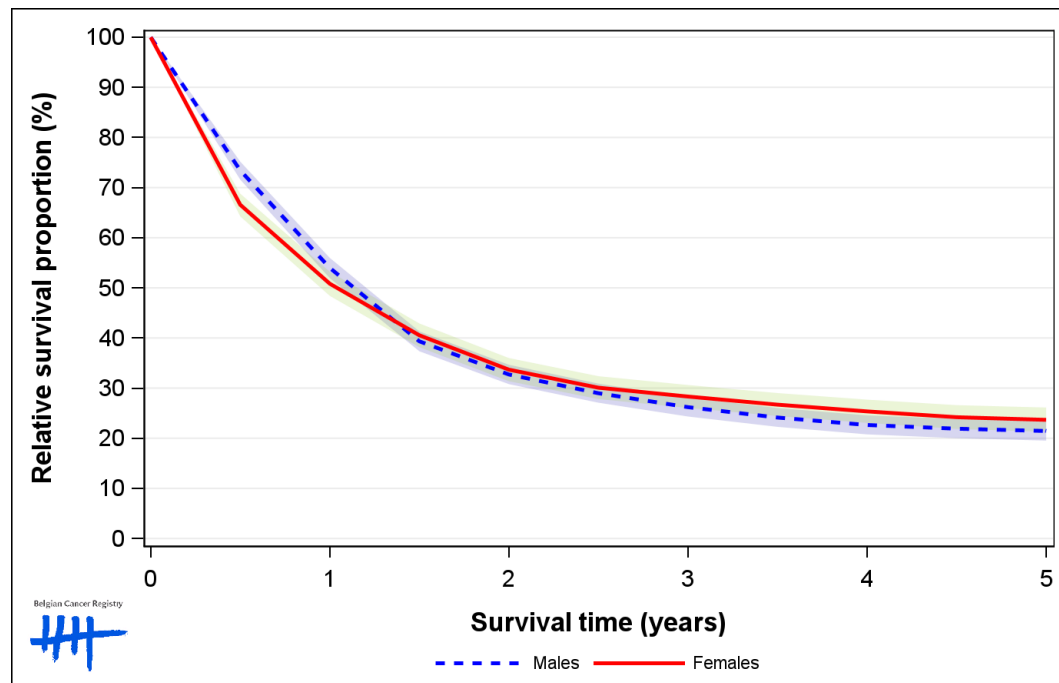


Figure 6: Central Nervous System Cancers: relative survival proportion by age group in males, Belgium 2017-2021

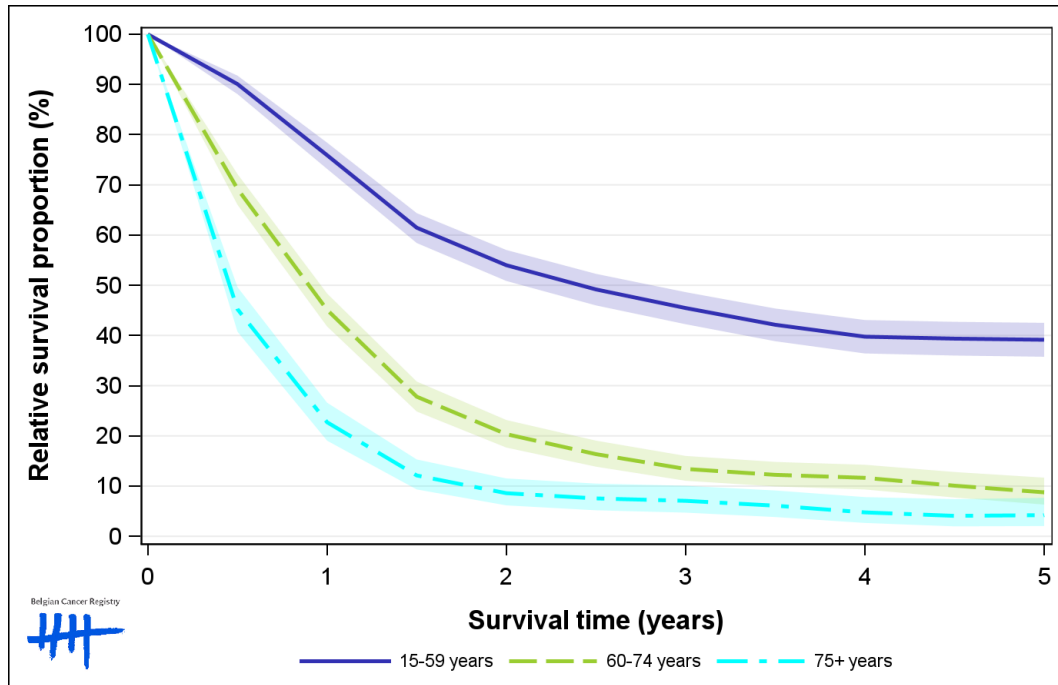


Figure 7: Central Nervous System Cancers: relative survival proportion by age group in females, Belgium 2017-2021

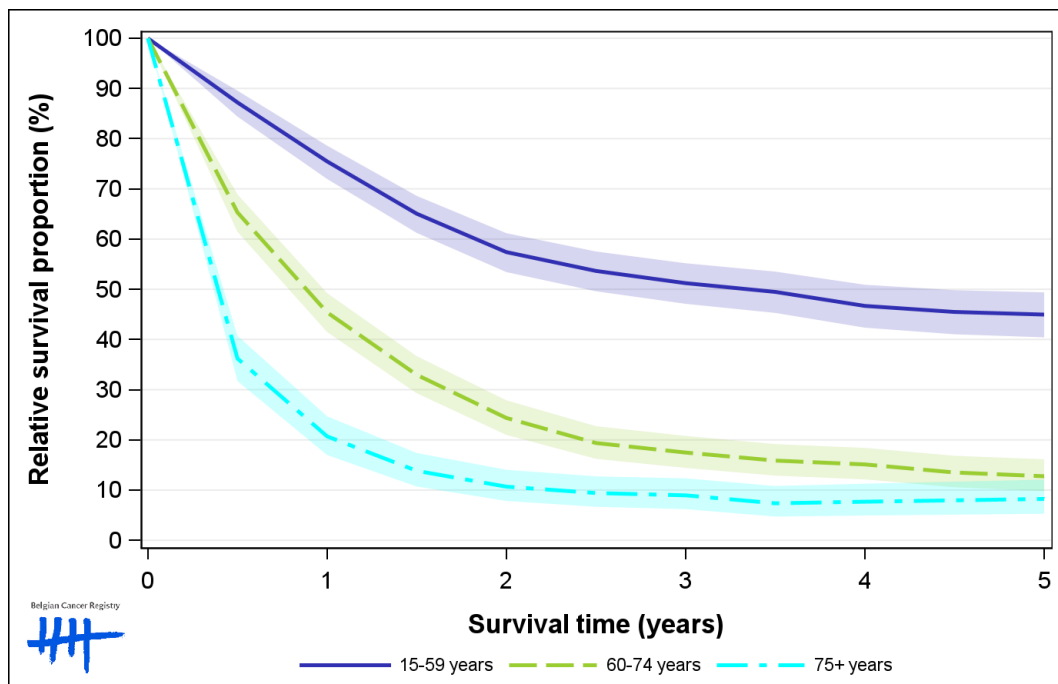


Figure 8: Central Nervous System Cancers: relative survival proportion by region in males, Belgium 2017-2021

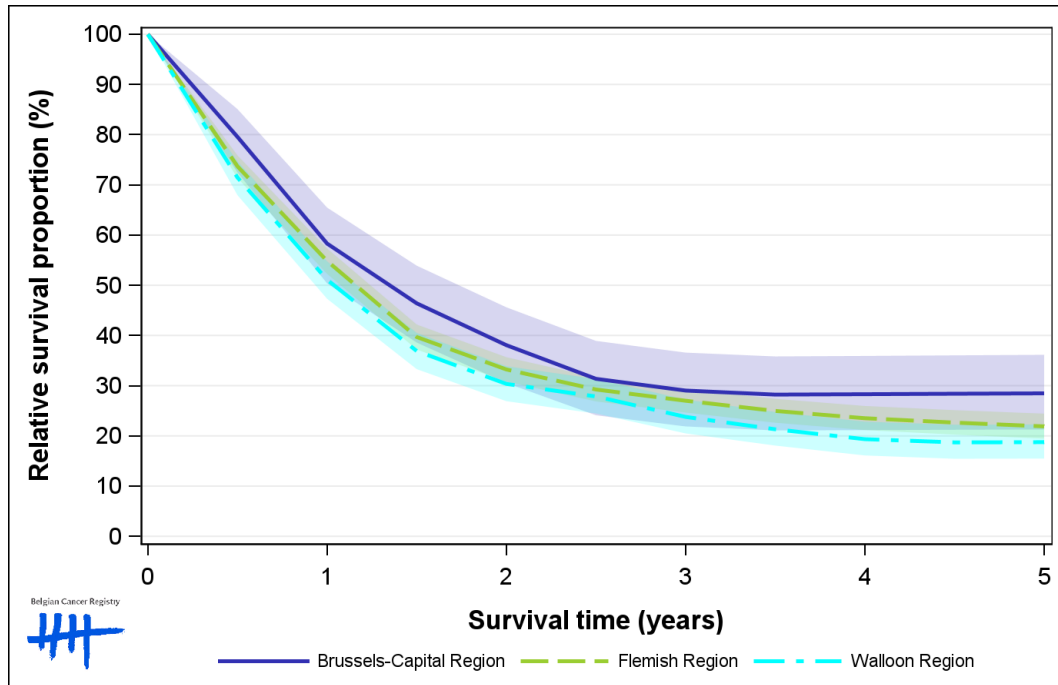


Figure 9: Central Nervous System Cancers: relative survival proportion by region in females, Belgium 2017-2021

