

Belgian Cancer Registry



Cancer Fact Sheet **Central nervous system**

ICD10 : C71-C72

Belgium 2022

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, 2022

Males	Age (years)	N	CR	ESR	WSR	CRi
Belgium	58.5	540	9.5	9.7	6.2	0.65
Brussels-Capital Region	51.8	44	7.3	9.0	6.2	0.61
Flemish Region	59.7	333	10.0	9.9	6.4	0.65
Walloon Region	57.9	163	9.1	9.4	5.9	0.65

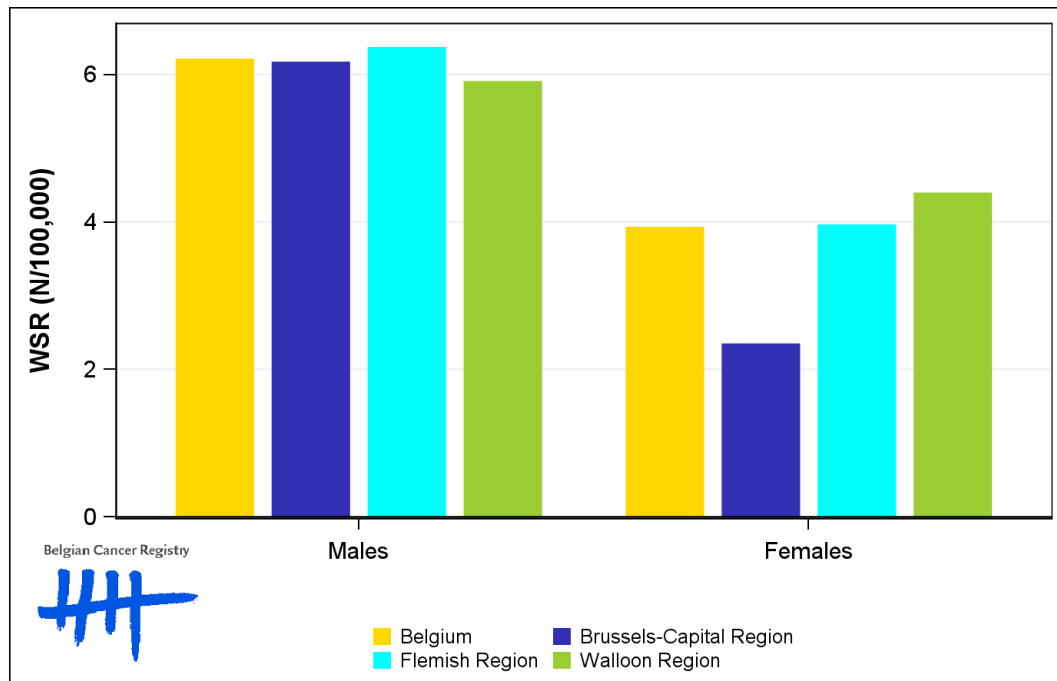
Females	Age (years)	N	CR	ESR	WSR	CRi
Belgium	58.4	346	5.9	5.8	3.9	0.40
Brussels-Capital Region	53.8	19	3.1	3.5	2.3	0.23
Flemish Region	59.3	209	6.2	5.9	4.0	0.41
Walloon Region	57.6	118	6.3	6.1	4.4	0.43

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 (%)

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Figure 1: Central Nervous System Cancers: Age-standardised incidence rates by sex and region, 2022



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 2022

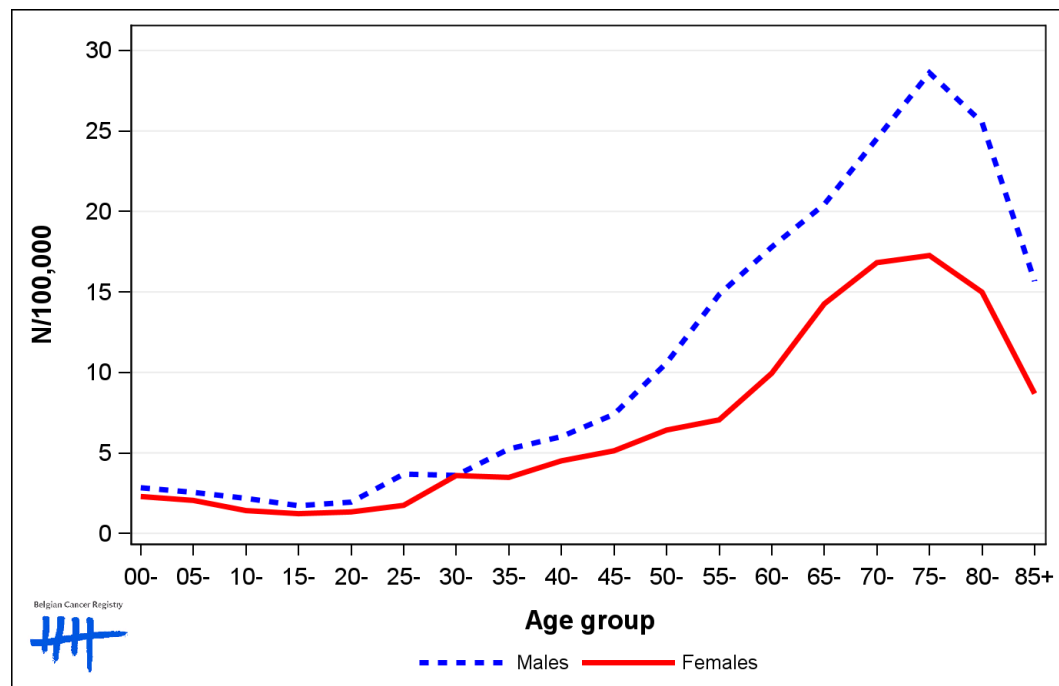
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	2.0	0.9	2.3	3.0	2.9	4.4	2.6	5.9	4.7	7.2	12.9	15.3	19.0	20.2	26.5	22.6	26.9	14.9	9.5	9.7	6.2
Females	3.4	2.8	1.5	0.6	0.3	1.7	2.9	3.8	4.0	3.3	4.9	8.3	11.9	14.4	15.9	15.6	10.7	6.2	5.9	5.8	3.9

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: Central Nervous System Cancers: Age-specific incidence rates by sex, 2018-2022



1.3. Trends in incidence

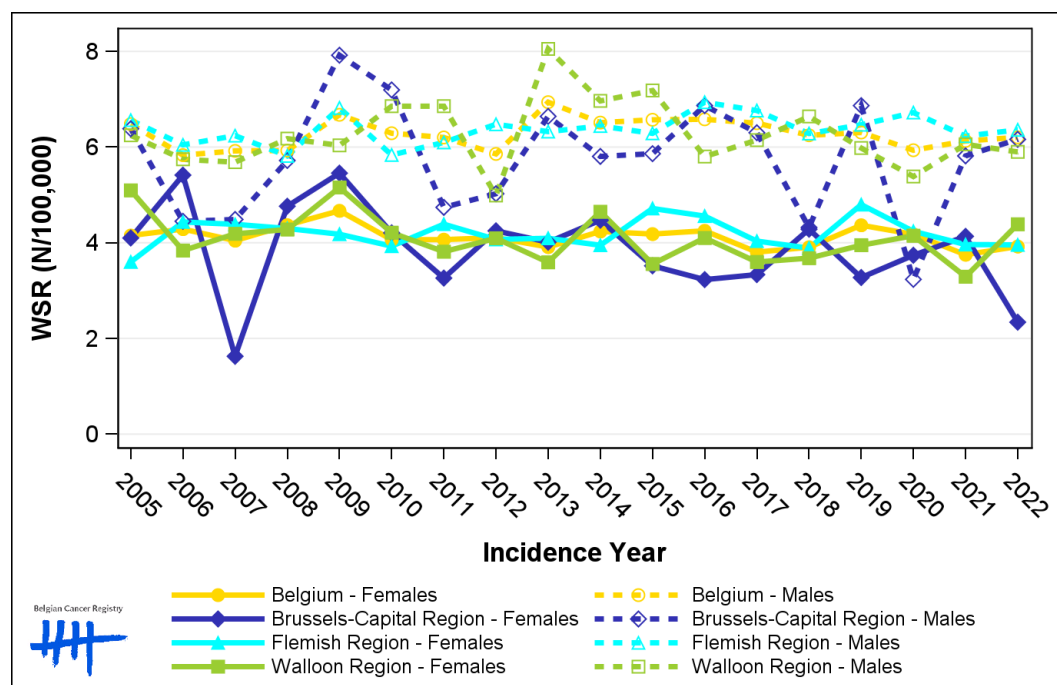
Table 3: Central Nervous System Cancers: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	AAPC	95% CI
Belgium	5.9	6.7	6.3	6.2	5.9	6.9	6.5	6.6	6.6	6.5	6.2	6.3	5.9	6.1	6.2	-0.1	[-0.7; 0.4]
Brussels-Capital Region	5.7	7.9	7.2	4.7	5.0	6.6	5.8	5.9	6.9	6.3	4.3	6.9	3.2	5.8	6.2	-1.5	[-4.3; 1.4]
Flemish Region	5.8	6.8	5.8	6.1	6.5	6.3	6.4	6.3	6.9	6.8	6.3	6.5	6.7	6.2	6.4	0.4	[-0.2; 1.1]
Walloon Region	6.2	6.0	6.9	6.9	5.0	8.1	7.0	7.2	5.8	6.1	6.6	6.0	5.4	6.1	5.9	-0.7	[-2.2; 0.9]

Females	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	AAPC	95% CI
Belgium	4.4	4.7	4.1	4.1	4.1	3.9	4.2	4.2	4.3	3.8	3.9	4.4	4.2	3.8	3.9	-0.7	[-1.3; 0.0]
Brussels-Capital Region	4.8	5.5	4.2	3.3	4.3	4.0	4.5	3.5	3.2	3.3	4.3	3.3	3.7	4.1	2.3	-2.8	[-4.8; -0.7]
Flemish Region	4.3	4.2	3.9	4.4	4.1	4.1	3.9	4.7	4.6	4.0	3.9	4.8	4.2	4.0	4.0	-0.1	[-1.0; 0.8]
Walloon Region	4.3	5.2	4.2	3.8	4.1	3.6	4.6	3.6	4.1	3.6	3.7	3.9	4.1	3.3	4.4	-1.0	[-2.4; 0.4]

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



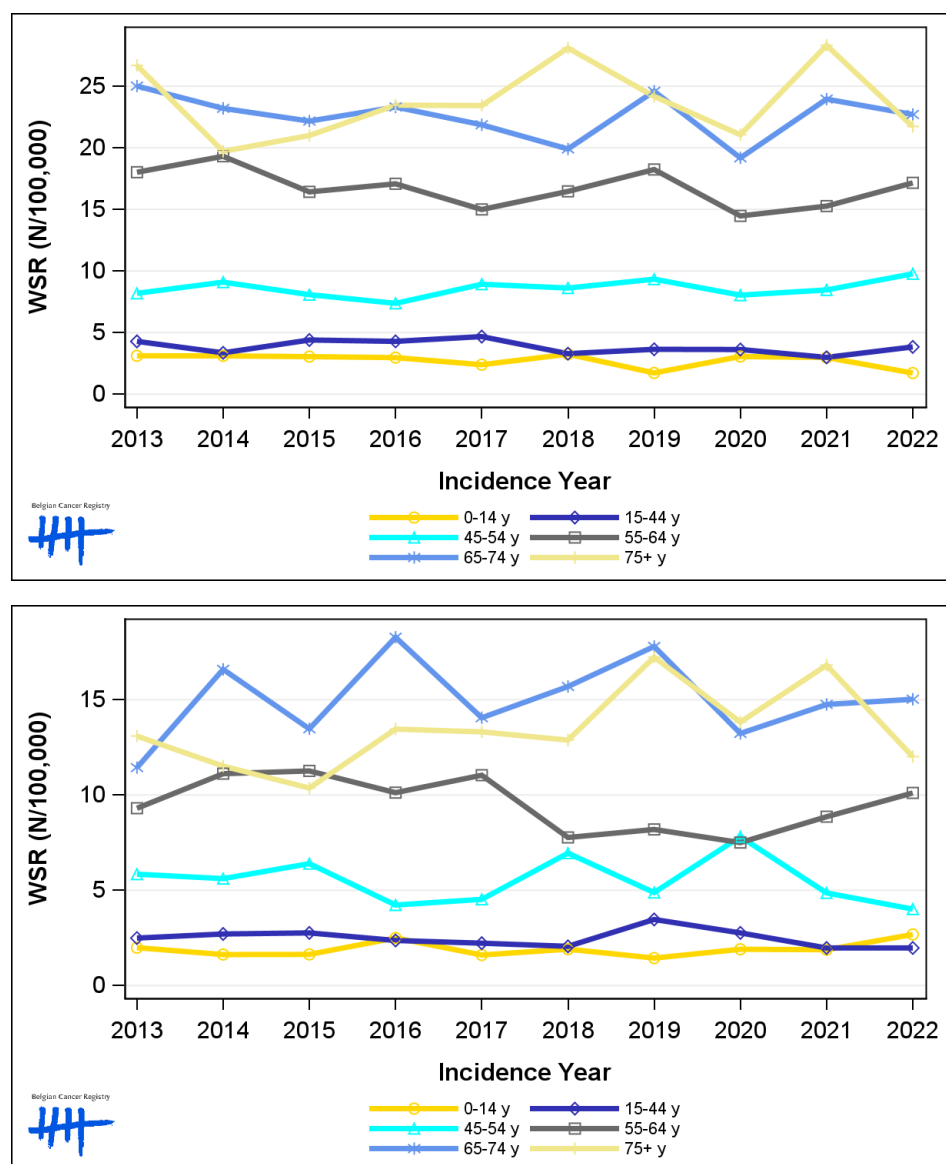
1.4. Incidence by broad age groups

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										
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		
Males																						
All ages	533	502	502	522	515	518	546	482	535	540	6.9	6.5	6.6	6.6	6.5	6.2	6.3	5.9	6.1	6.2		
0-14 y	30	30	29	30	24	32	16	30	29	17	3.1	3.1	3.1	3.0	2.4	3.3	1.7	3.1	3.0	1.7		
15-44 y	99	79	102	100	106	77	88	84	71	86	4.3	3.4	4.4	4.3	4.7	3.3	3.6	3.6	3.0	3.8		
45-54 y	68	75	67	62	72	71	76	64	67	78	8.2	9.1	8.1	7.4	8.9	8.6	9.3	8.0	8.5	9.8		
55-64 y	121	131	114	120	108	121	134	109	117	132	18.0	19.3	16.4	17.1	15.0	16.5	18.2	14.5	15.3	17.2		
65-74 y	116	110	108	117	114	108	137	108	137	133	25.0	23.2	22.2	23.3	21.9	19.9	24.6	19.2	24.0	22.7		
75+ y	99	77	82	93	91	109	95	87	114	94	26.7	19.7	21.0	23.5	23.4	28.1	24.2	21.1	28.3	21.7		
Females																						
All ages	317	353	343	365	338	348	399	364	356	346	3.9	4.2	4.2	4.3	3.8	3.9	4.4	4.2	3.8	3.9		
0-14 y	18	15	15	24	15	18	13	18	17	24	2.0	1.6	1.6	2.5	1.6	1.9	1.4	1.9	1.9	2.7		
15-44 y	55	61	63	56	51	49	78	66	46	49	2.5	2.7	2.8	2.4	2.2	2.1	3.5	2.8	2.0	2.0		
45-54 y	47	45	52	33	36	55	39	61	37	31	5.8	5.6	6.4	4.2	4.5	7.0	4.9	7.8	4.9	4.0		
55-64 y	64	77	80	72	80	58	61	57	68	78	9.3	11.1	11.3	10.1	11.0	7.8	8.2	7.5	8.9	10.1		
65-74 y	60	87	72	101	80	93	108	82	93	95	11.4	16.6	13.5	18.3	14.1	15.7	17.8	13.2	14.8	15.0		
75+ y	73	68	61	79	76	75	100	80	95	69	13.1	11.5	10.4	13.5	13.3	12.9	17.2	13.8	16.8	12.0		

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. Net survival

Table 5: Central Nervous System Cancers: 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
Overall	2,487	20.9	[19.0, 23.0]	1,719	24.2	[21.9, 26.8]
Age group						
15-59 years	1,053	37.3	[34.0, 40.9]	650	45.4	[41.1, 50.2]
60-74 years	936	10.4	[8.1, 13.3]	650	10.6	[7.9, 14.2]
75+ years	498	5.8	[3.4, 9.9]	419	11.4	[7.9, 16.6]
Region						
Brussels-Capital Region	171	19.6	[13.5, 28.5]	132	29.5	[21.7, 40.2]
Flemish Region	1,583	21.5	[19.2, 24.1]	1,071	25.8	[22.9, 29.2]
Walloon Region	733	19.8	[16.3, 24.0]	516	19.6	[15.7, 24.5]

Figure 5: Central Nervous System Cancers: net survival by sex, Belgium 2018-2022

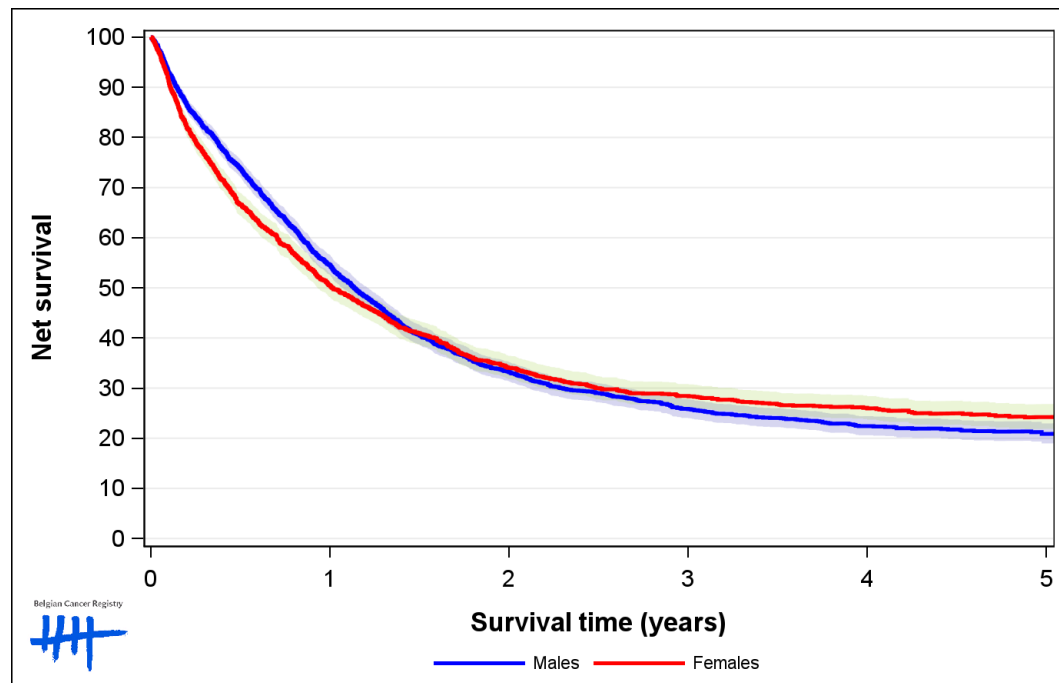


Figure 6: Central Nervous System Cancers: net survival by age group in males, Belgium 2018-2022

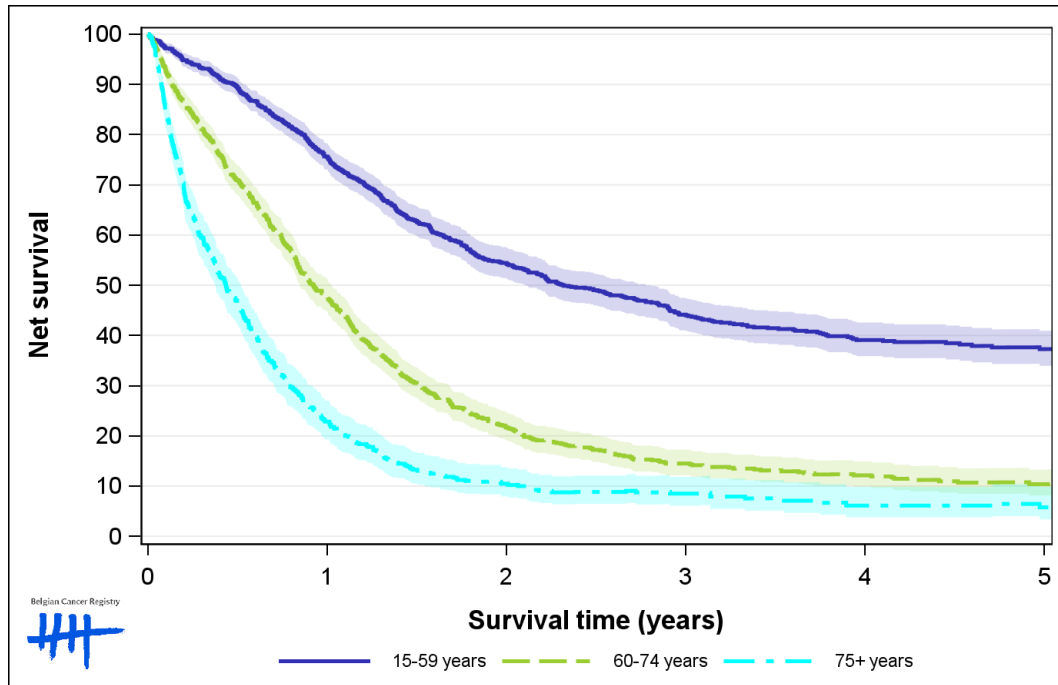


Figure 7: Central Nervous System Cancers: net survival by age group in females, Belgium 2018-2022

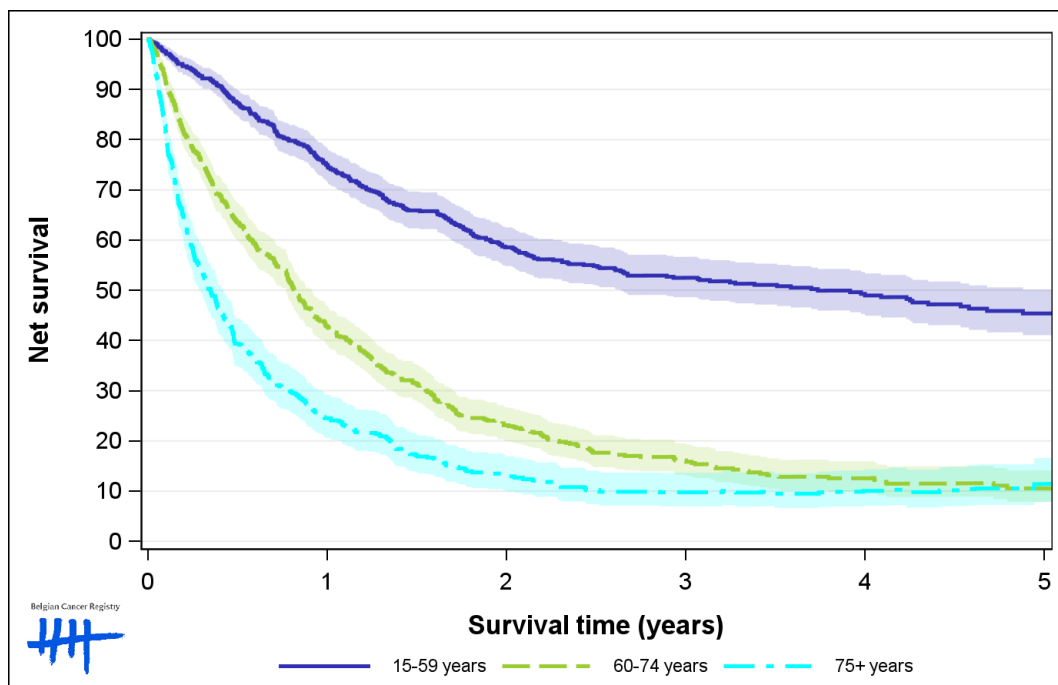


Figure 8: Central Nervous System Cancers: net survival by region in males, Belgium 2018-2022

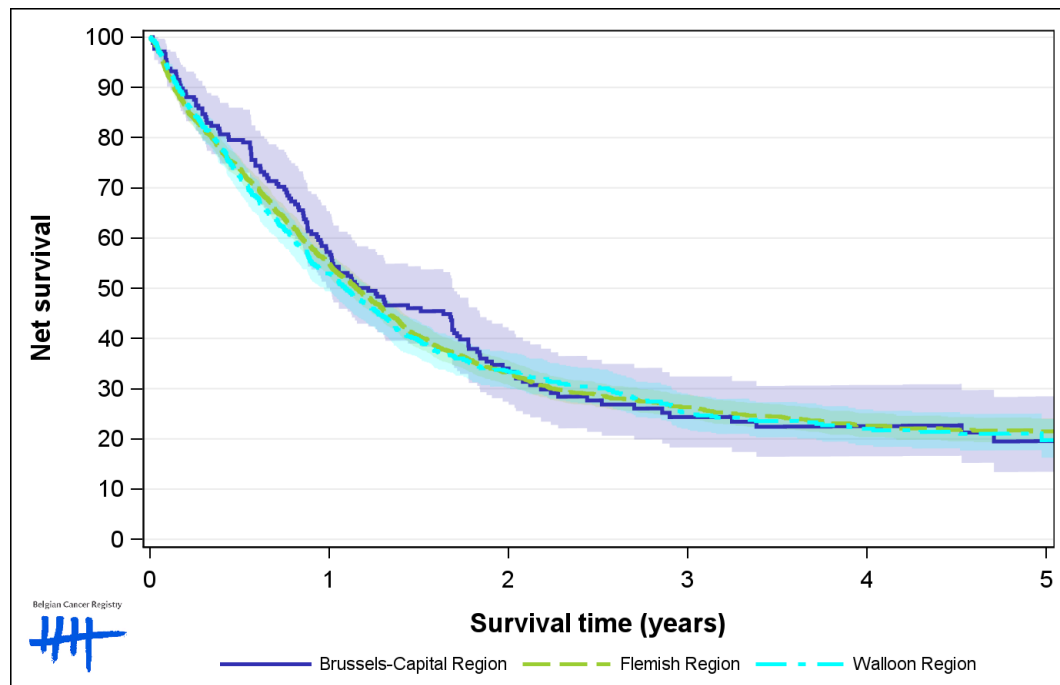


Figure 9: Central Nervous System Cancers: net survival by region in females, Belgium 2018-2022

