



Belgian Cancer Registry



Cancer Fact Sheet **Central nervous system**

ICD10 : C71-C72

**Belgium 2020**

# 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, 2020

Males	Age (years)	N	CR	ESR	WSR	CRi
<b>Belgium</b>	<b>56.8</b>	<b>478</b>	<b>8.4</b>	<b>7.1</b>	<b>5.9</b>	<b>0.57</b>
Brussels-Capital Region	56.7	26	4.3	4.3	3.2	0.35
Flemish Region	56.5	319	9.7	8.0	6.7	0.63
Walloon Region	57.3	133	7.5	6.3	5.2	0.53

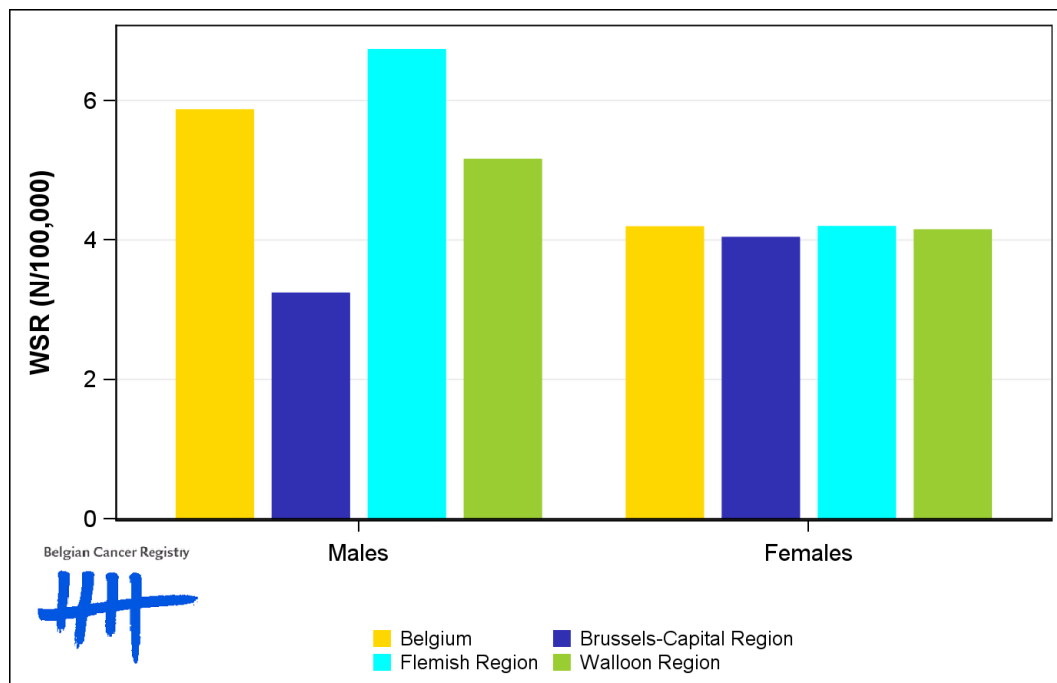
Females	Age (years)	N	CR	ESR	WSR	CRi
<b>Belgium</b>	<b>57.9</b>	<b>364</b>	<b>6.2</b>	<b>5.1</b>	<b>4.2</b>	<b>0.41</b>
Brussels-Capital Region	46.7	27	4.4	4.3	4.0	0.34
Flemish Region	59.3	221	6.6	5.2	4.2	0.42
Walloon Region	57.7	116	6.2	5.0	4.1	0.40

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 (%)

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**Figure 1:** Central Nervous System Cancers: Age-standardised incidence rates by sex and region, 2020



## 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 2020

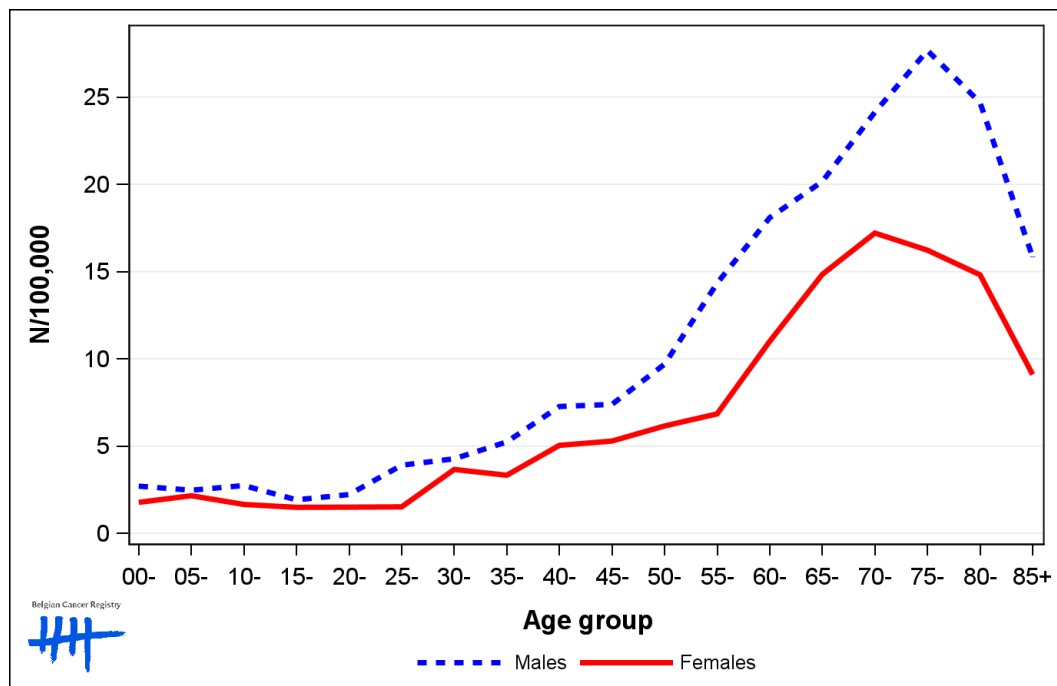
	00-	05-	10-	15-	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+	CR	ESR	WSR
Males	2.9	3.0	2.6	1.8	2.1	4.6	3.0	5.1	6.7	7.5	8.7	13.0	15.7	18.2	20.2	21.3	20.3	20.6	8.4	7.1	5.9
Females	2.0	2.8	1.2	1.0	1.5	1.4	4.6	3.5	6.0	6.9	8.7	6.3	9.0	12.1	14.9	16.3	13.2	9.4	6.2	5.1	4.2

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, 2016-2020



### 1.3. Trends in incidence

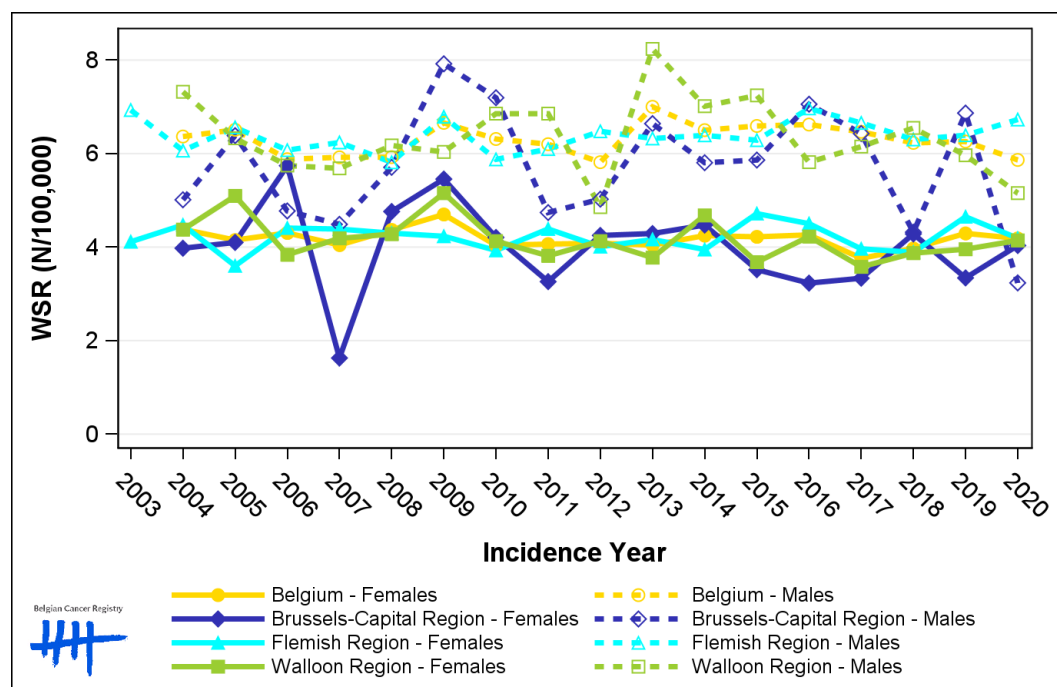
**Table 3:** Central Nervous System Cancers: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

Males	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	AAPC	95% CI
<b>Belgium</b>	5.9	5.9	5.9	6.7	6.3	6.2	5.8	7.0	6.5	6.6	6.6	6.5	6.2	6.3	5.9	-0.1;0]	[-0.6; 0.6]
Brussels-Capital Region	4.8	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	-2.2	[-5.2; 1.0]
Flemish Region	6.1	6.2	5.8	6.8	5.9	6.1	6.5	6.3	6.4	6.3	7.0	6.7	6.3	6.4	6.7	0.6	[0.0; 1.2]
Walloon Region	5.7	5.7	6.2	6.0	6.9	6.9	4.9	8.2	7.0	7.2	5.8	6.1	6.5	6.0	5.2	-0.2	[-1.8; 1.4]

Females	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	AAPC	95% CI
<b>Belgium</b>	4.3	4.0	4.4	4.7	4.0	4.1	4.1	4.0	4.2	4.2	4.3	3.8	4.0	4.3	4.2	-0.3	[-1.0; 0.3]
Brussels-Capital Region	5.7	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	4.0	-0.4	[-4.3; 3.6]
Flemish Region	4.4	4.4	4.3	4.2	3.9	4.4	4.0	4.2	3.9	4.7	4.5	4.0	3.9	4.6	4.2	]-0.1;0]	[-0.9; 0.7]
Walloon Region	3.8	4.2	4.3	5.2	4.1	3.8	4.1	3.8	4.7	3.7	4.2	3.6	3.9	4.0	4.1	-0.6	[-1.8; 0.6]

WSR=Age-Standardised Rate, using the World Standard Population (N/100,000 person-years)  
 AAPC = Average Annual Percentage Change over the 2006-2020 period

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



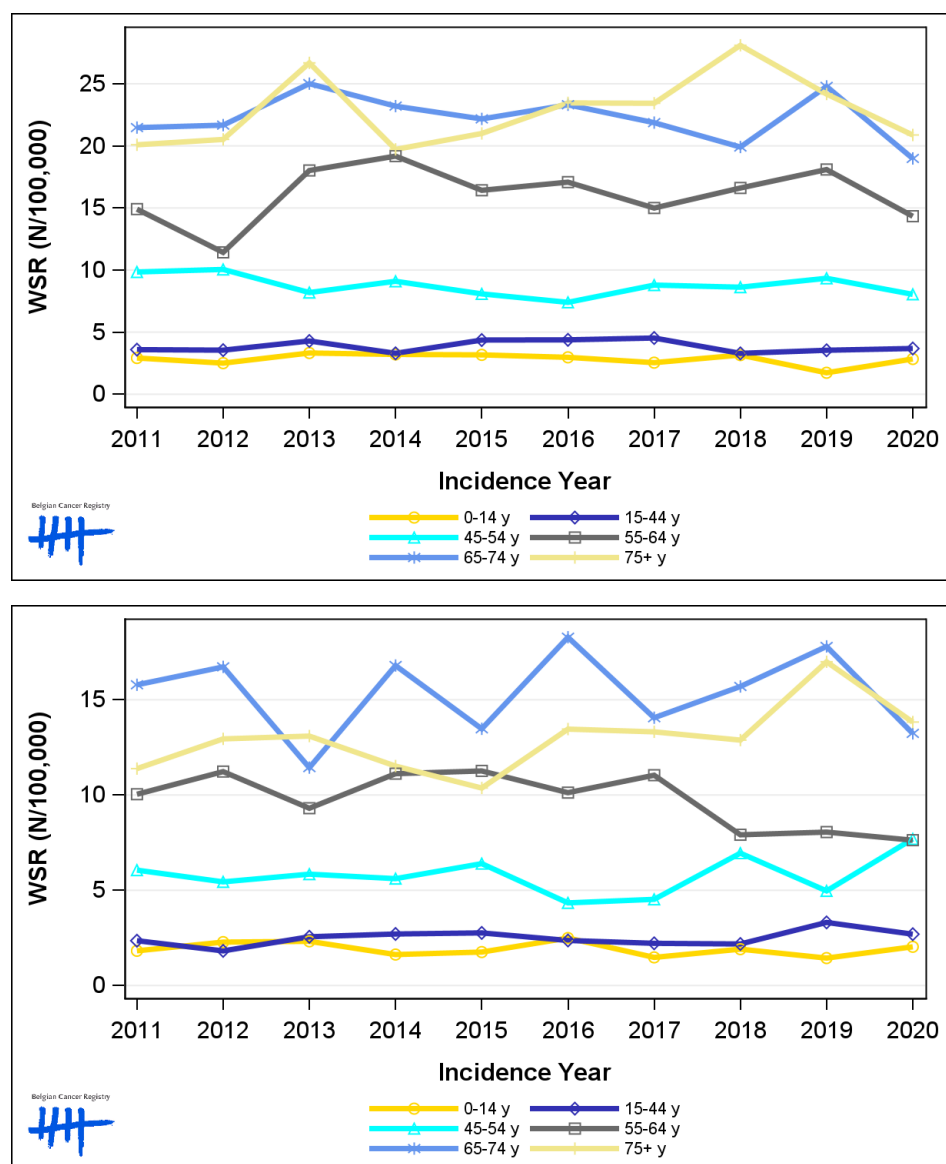
## 1.4. Incidence by broad age groups

**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									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Males</b>																				
All ages	459	440	535	501	502	524	511	518	544	478	6.2	5.8	7.0	6.5	6.6	6.6	6.5	6.2	6.3	5.9
0-14 y	28	24	32	31	30	30	25	31	16	28	2.9	2.5	3.3	3.2	3.2	3.0	2.5	3.2	1.7	2.8
15-44 y	85	83	99	78	101	102	102	77	86	85	3.6	3.6	4.3	3.3	4.4	4.4	4.5	3.3	3.5	3.7
45-54 y	81	83	68	75	67	62	71	71	76	64	9.8	10.1	8.2	9.1	8.1	7.4	8.8	8.6	9.3	8.0
55-64 y	99	76	121	130	114	120	108	122	133	108	14.9	11.4	18.0	19.2	16.4	17.1	15.0	16.6	18.1	14.3
65-74 y	95	98	116	110	108	117	114	108	138	107	21.5	21.7	25.0	23.2	22.2	23.3	21.9	19.9	24.8	19.0
75+ y	71	76	99	77	82	93	91	109	95	86	20.1	20.5	26.7	19.7	21.0	23.5	23.4	28.1	24.2	20.9
<b>Females</b>																				
All ages	331	342	321	354	344	366	336	351	395	364	4.1	4.1	4.0	4.2	4.2	4.3	3.8	4.0	4.3	4.2
0-14 y	16	21	21	15	16	24	14	18	13	19	1.8	2.3	2.3	1.6	1.8	2.5	1.5	1.9	1.4	2.0
15-44 y	55	43	56	61	63	56	50	51	75	65	2.4	1.8	2.6	2.7	2.8	2.4	2.2	2.2	3.3	2.7
45-54 y	49	44	47	45	52	34	36	55	40	60	6.1	5.4	5.8	5.6	6.4	4.3	4.5	7.0	5.0	7.7
55-64 y	68	77	64	77	80	72	80	59	60	58	10.0	11.2	9.3	11.1	11.3	10.1	11.0	7.9	8.1	7.6
65-74 y	78	84	60	88	72	101	80	93	108	82	15.8	16.7	11.4	16.8	13.5	18.3	14.1	15.7	17.8	13.2
75+ y	65	73	73	68	61	79	76	75	99	80	11.4	12.9	13.1	11.5	10.4	13.5	13.3	12.9	17.0	13.8

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

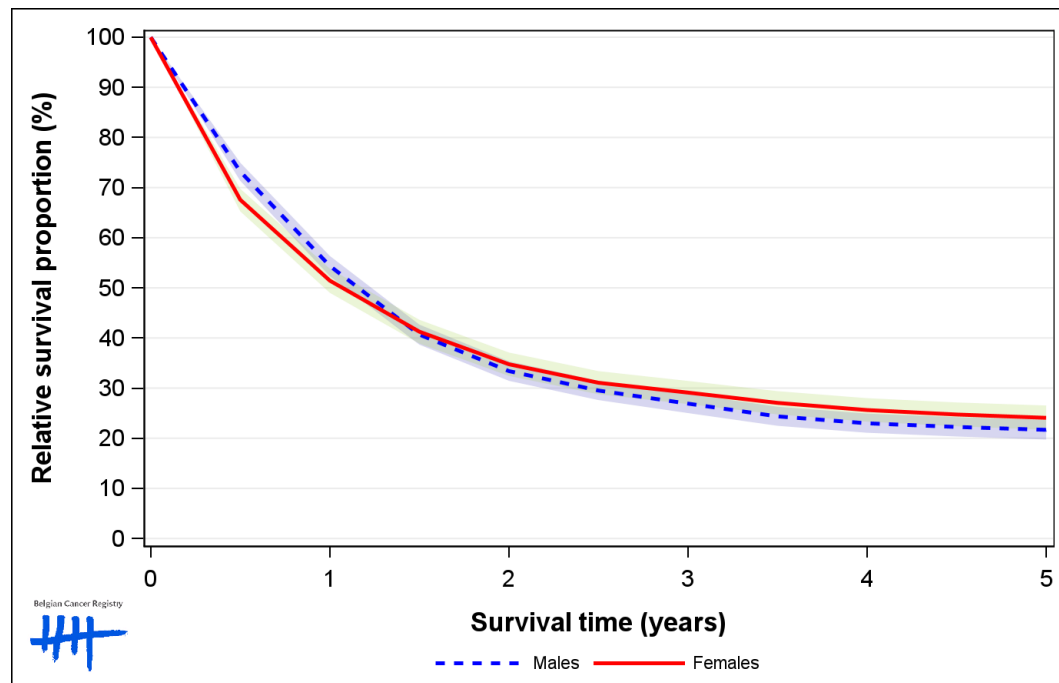


## 2. Relative survival

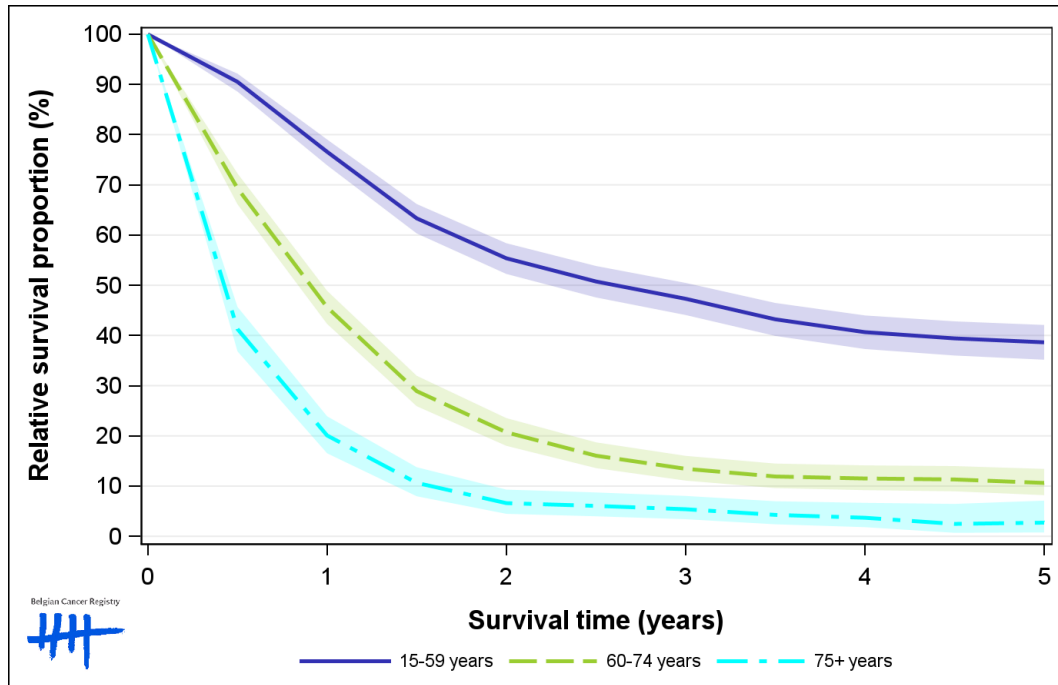
**Table 5:** Central Nervous System Cancers: 5-year relative survival proportion by sex, age group and region, Belgium 2016-2020

	5-year relative survival 2016-2020 (%)					
	Males			Females		
	N at risk	estimate	95% CI	N at risk	estimate	95% CI
<b>Overall</b>	2,430	21.2	[19.3, 23.2]	1,715	23.4	[21.0, 25.8]
<b>Age group</b>						
15-59 years	1,064	38.3	[34.9, 41.8]	653	45.5	[40.9, 50.0]
60-74 years	892	10.2	[7.9, 12.9]	654	13.2	[10.4, 16.3]
75+ years	474	1.9	[0.4, 6.2]	408	5.0	[2.5, 8.8]
<b>Region</b>						
Brussels-Capital Region	175	31.6	[24.1, 39.4]	132	33.0	[23.6, 42.7]
Flemish Region	1,544	21.1	[18.7, 23.6]	1,059	23.0	[20.1, 26.1]
Walloon Region	711	18.9	[15.6, 22.4]	524	21.7	[17.7, 26.0]

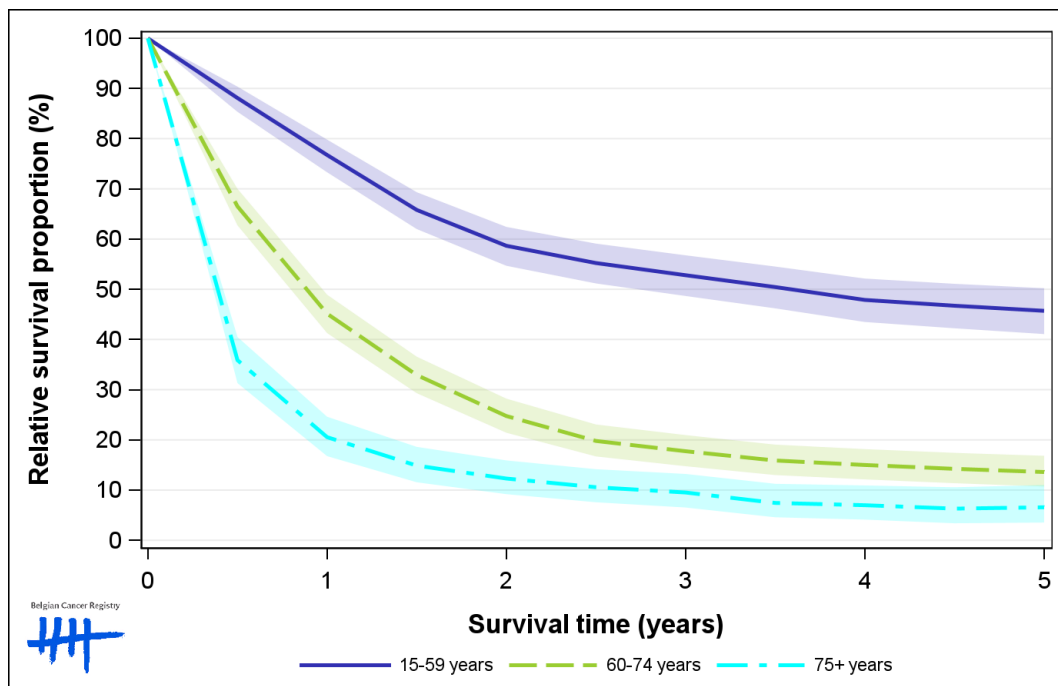
**Figure 5:** Central Nervous System Cancers: relative survival proportion by sex, Belgium 2016-2020



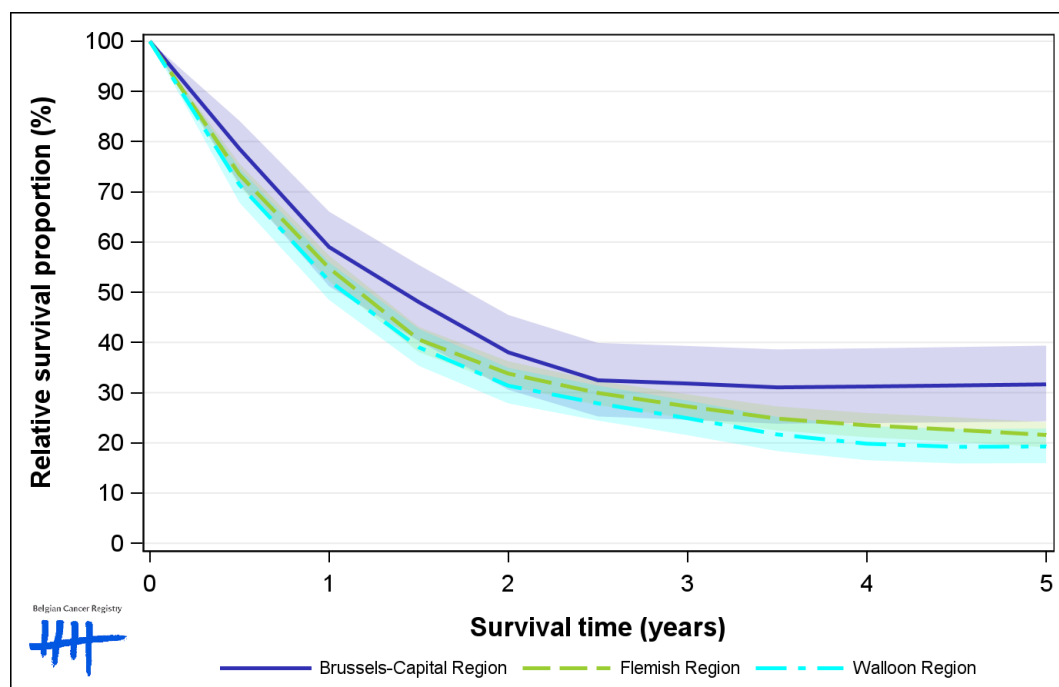
**Figure 6:** Central Nervous System Cancers: relative survival proportion by age group in males, Belgium 2016-2020



**Figure 7:** Central Nervous System Cancers: relative survival proportion by age group in females, Belgium 2016-2020



**Figure 8:** Central Nervous System Cancers: relative survival proportion by region in males, Belgium 2016-2020



**Figure 9:** Central Nervous System Cancers: relative survival proportion by region in females, Belgium 2016-2020

