

Belgian Cancer Registry



Cancer Fact Sheet **Oesophagus Cancer**

ICD10 : C15-16.0

Belgium 2020

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Oesophageal 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, 2020

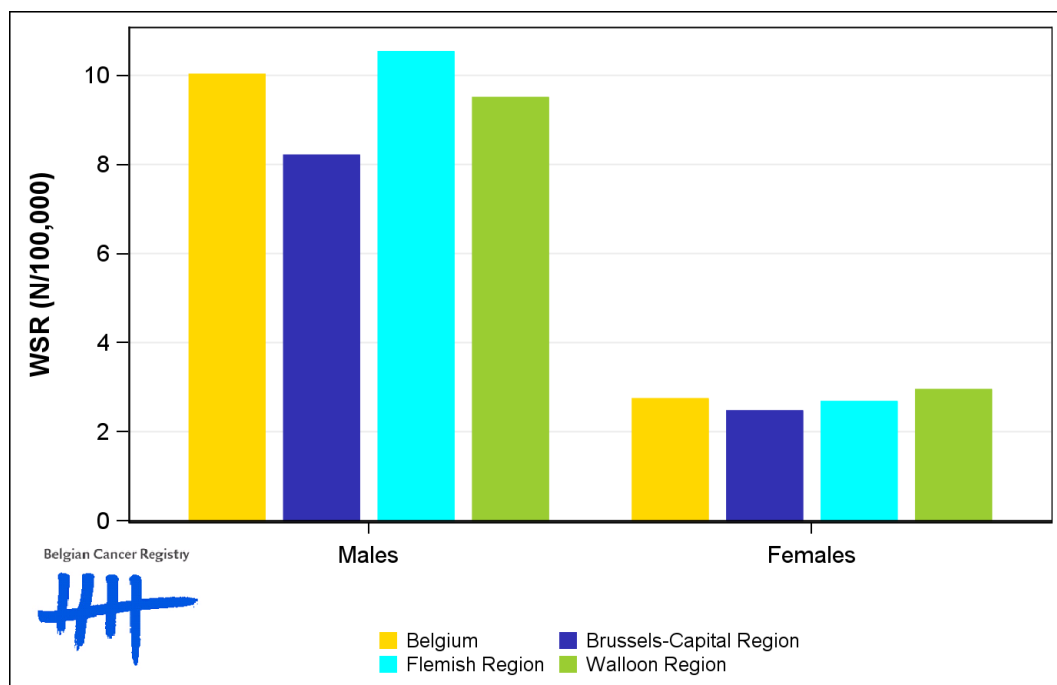
| Males | Age (years) | N | CR | ESR | WSR | CRi |
|-------------------------|-------------|--------------|-------------|-------------|-------------|-------------|
| Belgium | 68.8 | 1,172 | 20.7 | 14.8 | 10.0 | 1.27 |
| Brussels-Capital Region | 66.0 | 67 | 11.2 | 11.7 | 8.2 | 1.12 |
| Flemish Region | 69.0 | 756 | 23.0 | 15.4 | 10.5 | 1.31 |
| Walloon Region | 69.0 | 349 | 19.6 | 14.2 | 9.5 | 1.23 |

| Females | Age (years) | N | CR | ESR | WSR | CRi |
|-------------------------|-------------|------------|------------|------------|------------|-------------|
| Belgium | 71.6 | 389 | 6.7 | 4.0 | 2.7 | 0.35 |
| Brussels-Capital Region | 71.1 | 28 | 4.5 | 3.7 | 2.5 | 0.38 |
| Flemish Region | 72.4 | 234 | 7.0 | 4.0 | 2.7 | 0.34 |
| Walloon Region | 70.4 | 127 | 6.8 | 4.3 | 2.9 | 0.36 |

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: Oesophageal cancer: Age-standardised incidence rates by sex and region, 2020



1.2. Age-specific incidence rates

Table 2: Oesophageal cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2020

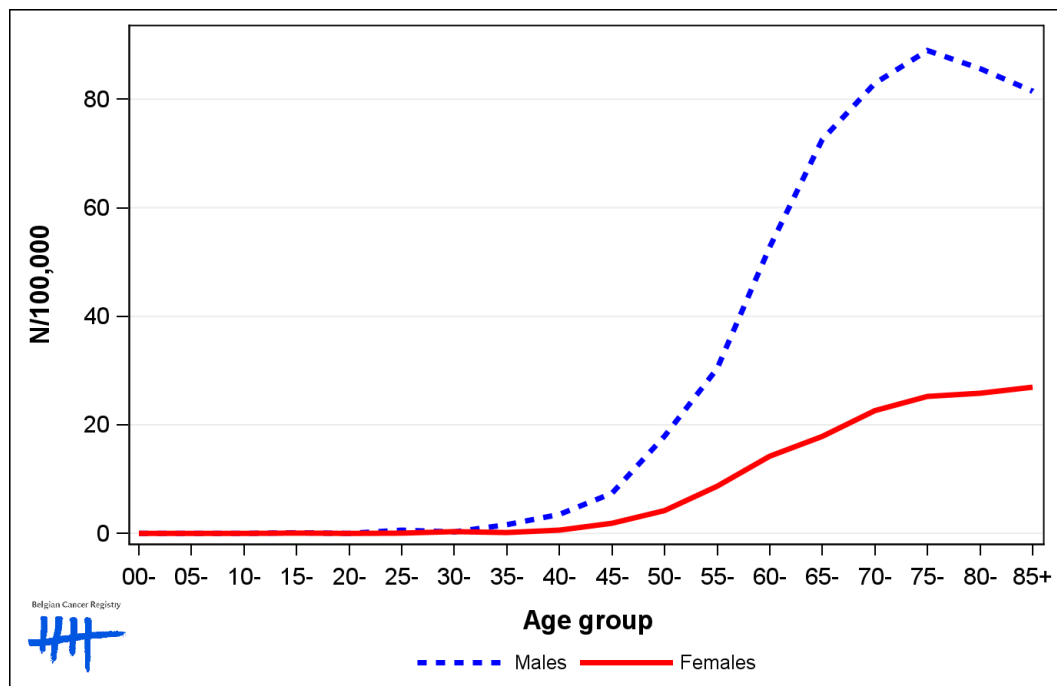
| | 00- | 05- | 10- | 15- | 20- | 25- | 30- | 35- | 40- | 45- | 50- | 55- | 60- | 65- | 70- | 75- | 80- | 85+ | CR | ESR | WSR |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| Males | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.8 | 0.0 | 1.9 | 2.4 | 5.9 | 14.5 | 30.9 | 47.9 | 67.5 | 83.0 | 95.7 | 85.9 | 73.5 | 20.7 | 14.8 | 10.0 |
| Females | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.5 | 0.5 | 0.5 | 1.3 | 3.3 | 6.3 | 13.4 | 20.9 | 23.5 | 24.0 | 24.3 | 26.4 | 6.7 | 4.0 | 2.7 |

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: Oesophageal cancer: Age-specific incidence rates by sex, 2016-2020



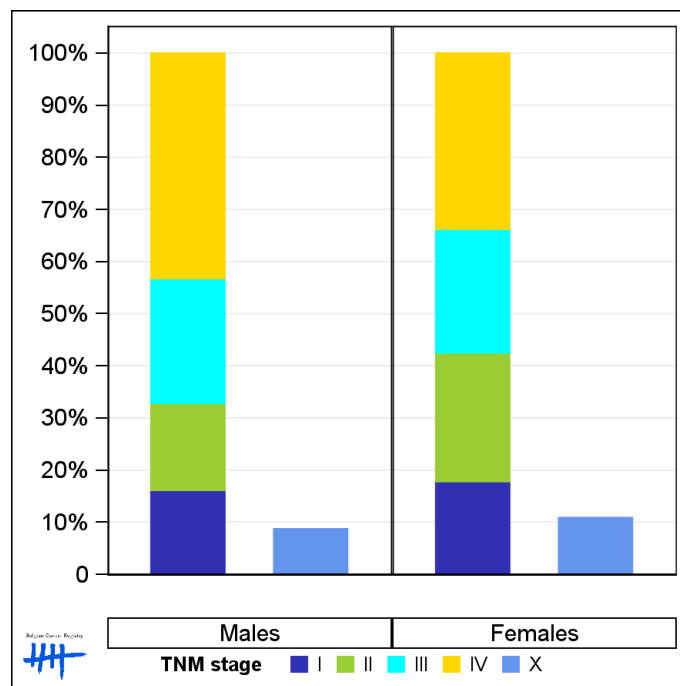
1.3. Combined stage

Table 3: Oesophageal cancer: Distribution of combined stage by sex, Belgium 2020

| | Stage I | Stage II | Stage III | Stage IV | Stage X | Stage NA | Total |
|----------------|---------|----------|-----------|----------|---------|----------|-------|
| Males | | | | | | | |
| N | 162 | 168 | 241 | 435 | 96 | 70 | 1,172 |
| % | 13.8 | 14.3 | 20.6 | 37.1 | 8.2 | 6.0 | 100 |
| Females | | | | | | | |
| N | 57 | 79 | 76 | 108 | 39 | 30 | 389 |
| % | 14.7 | 20.3 | 19.5 | 27.8 | 10.0 | 7.7 | 100 |

Staging according to the TNM 8th edition (Ref: Brierley JD, Gospodarowicz MK, Wittekind Ch. TNM classification of malignant tumours, UICC 8th 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: Oesophageal cancer: Bar chart of known combined stage by sex, Belgium 2020



1.4. Trends in incidence

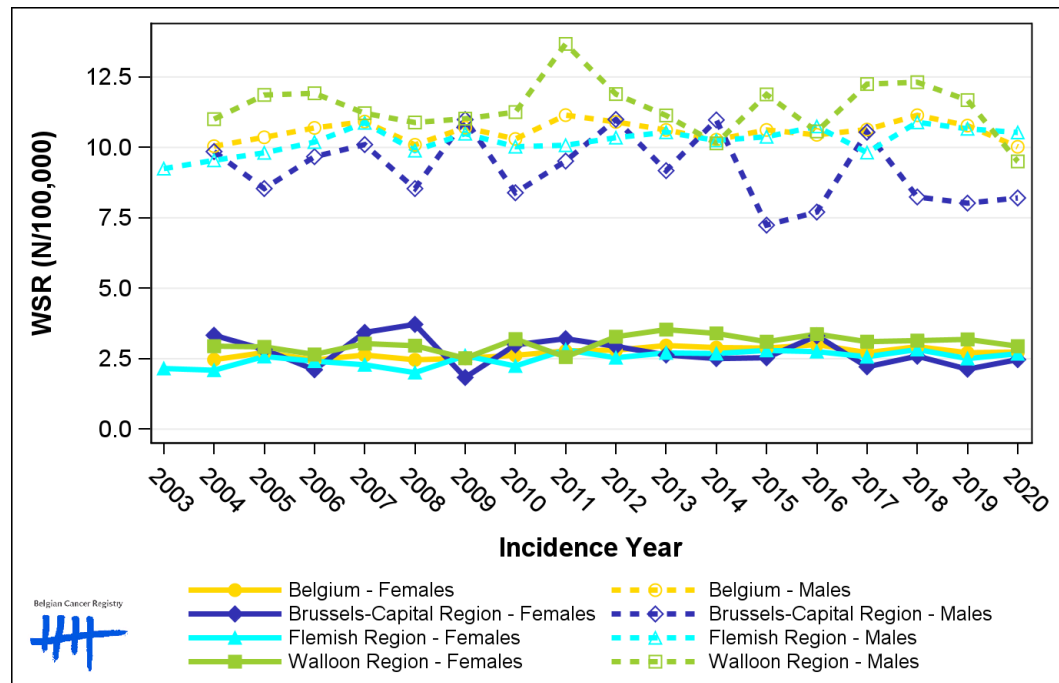
Table 4: Oesophageal cancer: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

| Males | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | AAPC | 95% CI |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|--------------------|
| Belgium | 10.7 | 10.9 | 10.1 | 10.7 | 10.3 | 11.1 | 10.9 | 10.6 | 10.3 | 10.6 | 10.4 | 10.6 | 11.1 | 10.8 | 10.0 | -0.1;0] | [-0.5; 0.4] |
| Brussels-Capital Region | 9.7 | 10.1 | 8.5 | 11.0 | 8.4 | 9.5 | 11.0 | 9.2 | 11.0 | 7.2 | 7.7 | 10.5 | 8.2 | 8.0 | 8.2 | -1.3 | [-2.9; 0.4] |
| Flemish Region | 10.2 | 10.9 | 9.9 | 10.5 | 10.0 | 10.1 | 10.3 | 10.5 | 10.2 | 10.4 | 10.7 | 9.8 | 10.9 | 10.7 | 10.5 | 0.2 | [-0.2; 0.6] |
| Walloon Region | 11.9 | 11.2 | 10.9 | 11.0 | 11.3 | 13.7 | 11.9 | 11.1 | 10.1 | 11.9 | 10.6 | 12.2 | 12.3 | 11.7 | 9.5 | -0.3 | [-1.5; 0.8] |

| Females | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | AAPC | 95% CI |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|
| Belgium | 2.5 | 2.6 | 2.5 | 2.5 | 2.6 | 2.8 | 2.8 | 3.0 | 2.9 | 2.9 | 3.0 | 2.7 | 2.9 | 2.7 | 2.7 | 0.8 | [0.4; 1.3] |
| Brussels-Capital Region | 2.1 | 3.4 | 3.7 | 1.8 | 3.0 | 3.2 | 2.9 | 2.6 | 2.5 | 2.5 | 3.3 | 2.2 | 2.6 | 2.1 | 2.5 | -1.1 | [-3.7; 1.5] |
| Flemish Region | 2.4 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.5 | 2.7 | 2.7 | 2.8 | 2.8 | 2.6 | 2.8 | 2.5 | 2.7 | 1.1 | [0.1; 2.1] |
| Walloon Region | 2.7 | 3.0 | 3.0 | 2.5 | 3.2 | 2.6 | 3.3 | 3.5 | 3.4 | 3.1 | 3.4 | 3.1 | 3.1 | 3.2 | 2.9 | 0.9 | [-0.3; 2.0] |

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 4: Oesophageal cancer: Age-standardised incidence rates (WSR) by incidence year, sex and region



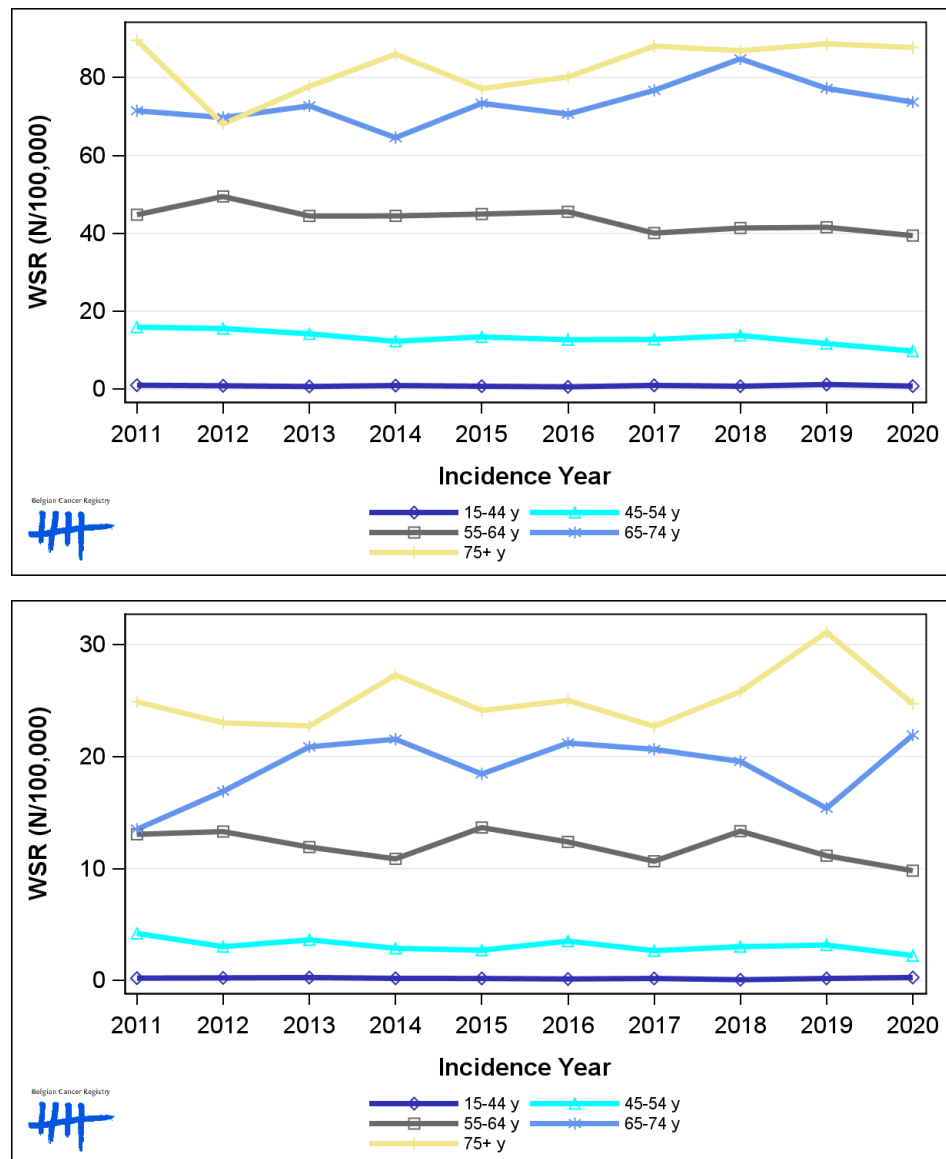
1.5. Incidence by broad age groups

Table 5: Oesophageal cancer: 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 |
| Males | | | | | | | | | | | | | | | | | | | | |
| All ages | 1,089 | 1,051 | 1,074 | 1,071 | 1,101 | 1,117 | 1,160 | 1,237 | 1,218 | 1,172 | 11.1 | 10.9 | 10.6 | 10.3 | 10.6 | 10.4 | 10.6 | 11.1 | 10.8 | 10.0 |
| 0-14 y | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15-44 y | 29 | 25 | 19 | 25 | 21 | 17 | 25 | 20 | 31 | 20 | 1.0 | 0.9 | 0.7 | 1.0 | 0.8 | 0.6 | 1.0 | 0.8 | 1.2 | 0.8 |
| 45-54 y | 133 | 130 | 120 | 105 | 112 | 109 | 108 | 117 | 97 | 81 | 15.9 | 15.6 | 14.2 | 12.3 | 13.4 | 12.7 | 12.8 | 13.8 | 11.7 | 9.8 |
| 55-64 y | 299 | 330 | 301 | 303 | 310 | 319 | 284 | 298 | 304 | 295 | 44.8 | 49.5 | 44.5 | 44.5 | 45.0 | 45.5 | 40.1 | 41.4 | 41.6 | 39.4 |
| 65-74 y | 309 | 313 | 337 | 306 | 357 | 354 | 400 | 458 | 426 | 418 | 71.5 | 69.7 | 72.7 | 64.6 | 73.4 | 70.6 | 76.7 | 84.8 | 77.2 | 73.7 |
| 75+ y | 319 | 253 | 297 | 332 | 301 | 318 | 343 | 344 | 360 | 358 | 89.6 | 68.1 | 77.7 | 86.0 | 77.2 | 80.2 | 88.1 | 86.9 | 88.7 | 87.7 |
| Females | | | | | | | | | | | | | | | | | | | | |
| All ages | 348 | 359 | 371 | 388 | 377 | 396 | 368 | 404 | 391 | 389 | 2.8 | 2.8 | 3.0 | 2.9 | 2.9 | 3.0 | 2.7 | 2.9 | 2.7 | 2.7 |
| 0-14 y | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15-44 y | 6 | 6 | 7 | 5 | 5 | 3 | 5 | 2 | 5 | 7 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 | <0.1 | 0.2 | 0.3 |
| 45-54 y | 35 | 25 | 30 | 24 | 23 | 29 | 22 | 25 | 26 | 18 | 4.2 | 3.0 | 3.6 | 2.9 | 2.7 | 3.5 | 2.7 | 3.0 | 3.2 | 2.2 |
| 55-64 y | 89 | 92 | 82 | 75 | 96 | 89 | 78 | 98 | 83 | 74 | 13.1 | 13.3 | 11.9 | 10.9 | 13.7 | 12.4 | 10.7 | 13.3 | 11.1 | 9.8 |
| 65-74 y | 66 | 85 | 107 | 114 | 99 | 116 | 120 | 118 | 95 | 135 | 13.5 | 16.9 | 20.9 | 21.5 | 18.4 | 21.2 | 20.6 | 19.6 | 15.4 | 21.9 |
| 75+ y | 152 | 151 | 145 | 170 | 154 | 159 | 143 | 161 | 182 | 155 | 24.9 | 23.0 | 22.7 | 27.3 | 24.1 | 25.0 | 22.7 | 25.8 | 31.1 | 24.7 |

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

Figure 5: Oesophageal 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: Oesophageal cancer: 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 |
| Overall | 5,857 | 26.1 | [24.6, 27.7] | 1,934 | 27.6 | [25.0, 30.3] |
| Age group | | | | | | |
| 15-59 years | 1,202 | 30.6 | [27.4, 33.9] | 310 | 38.3 | [31.8, 44.8] |
| 60-74 years | 2,943 | 28.6 | [26.5, 30.8] | 832 | 30.5 | [26.5, 34.6] |
| 75+ years | 1,712 | 17.9 | [15.0, 21.2] | 792 | 19.9 | [15.9, 24.3] |
| Region | | | | | | |
| Brussels-Capital Region | 341 | 20.3 | [14.5, 27.0] | 140 | 26.8 | [17.4, 37.6] |
| Flemish Region | 3,624 | 25.0 | [23.2, 27.0] | 1,131 | 27.9 | [24.5, 31.5] |
| Walloon Region | 1,892 | 29.3 | [26.5, 32.1] | 663 | 27.4 | [23.0, 32.0] |

Figure 6: Oesophageal cancer: relative survival proportion by sex, Belgium 2016-2020

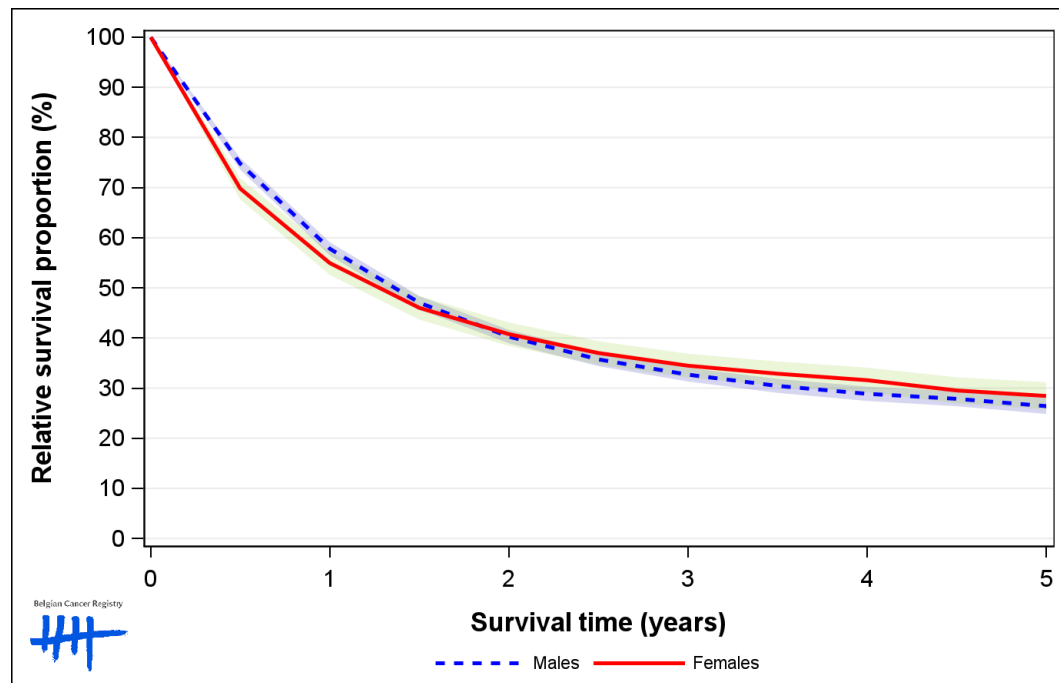


Figure 7: Oesophageal cancer: relative survival proportion by age group in males, Belgium 2016-2020

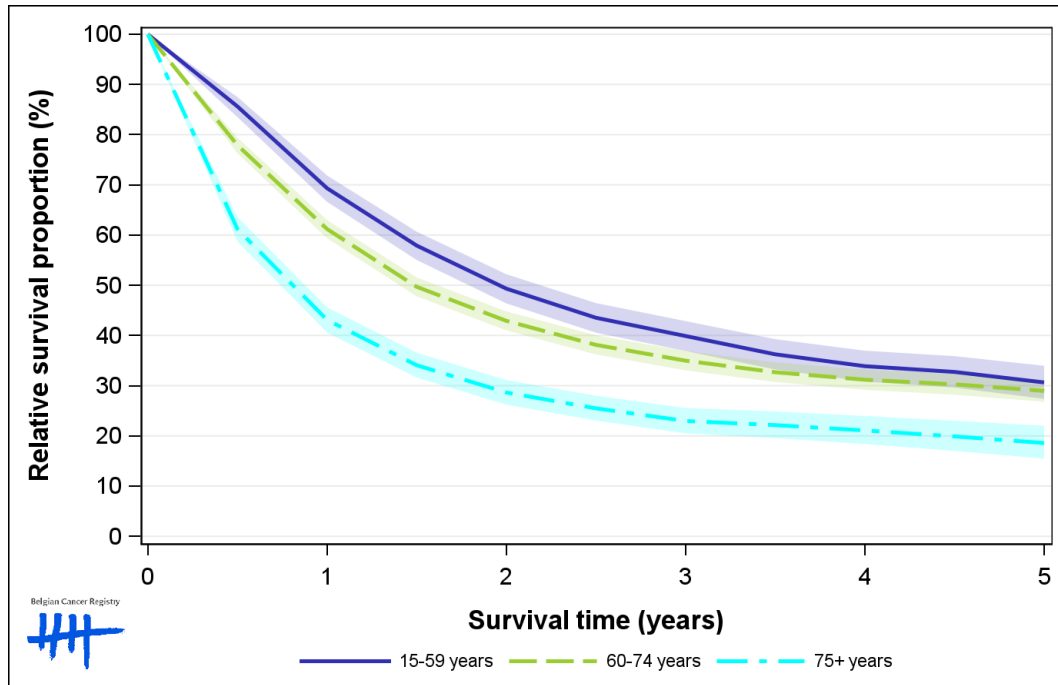


Figure 8: Oesophageal cancer: relative survival proportion by age group in females, Belgium 2016-2020

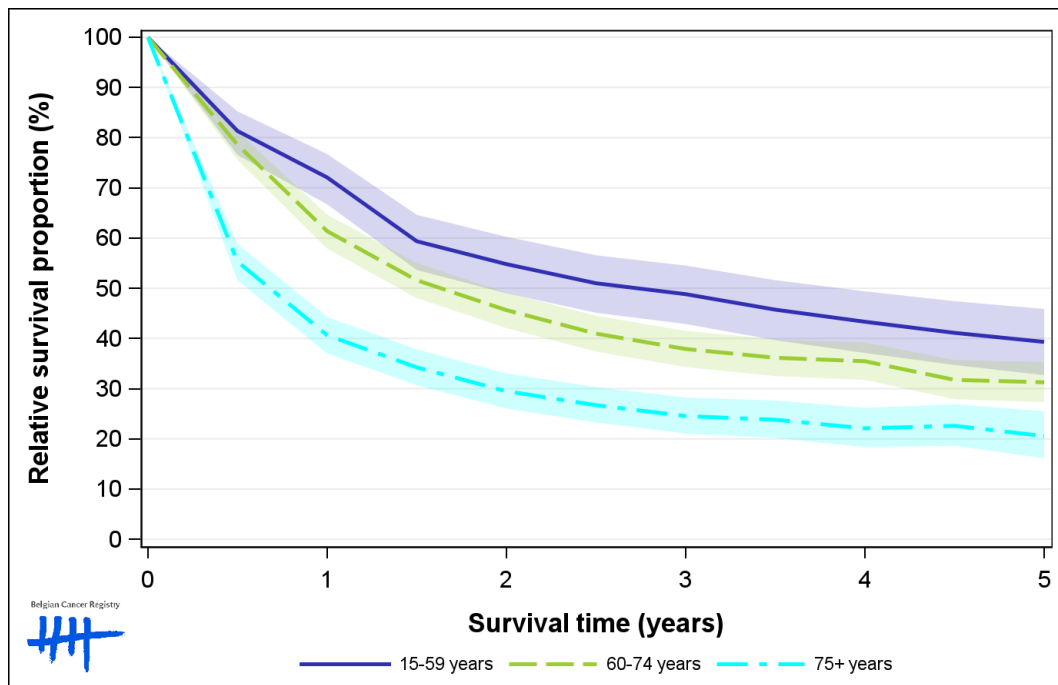


Figure 9: Oesophageal cancer: relative survival proportion by region in males, Belgium 2016-2020

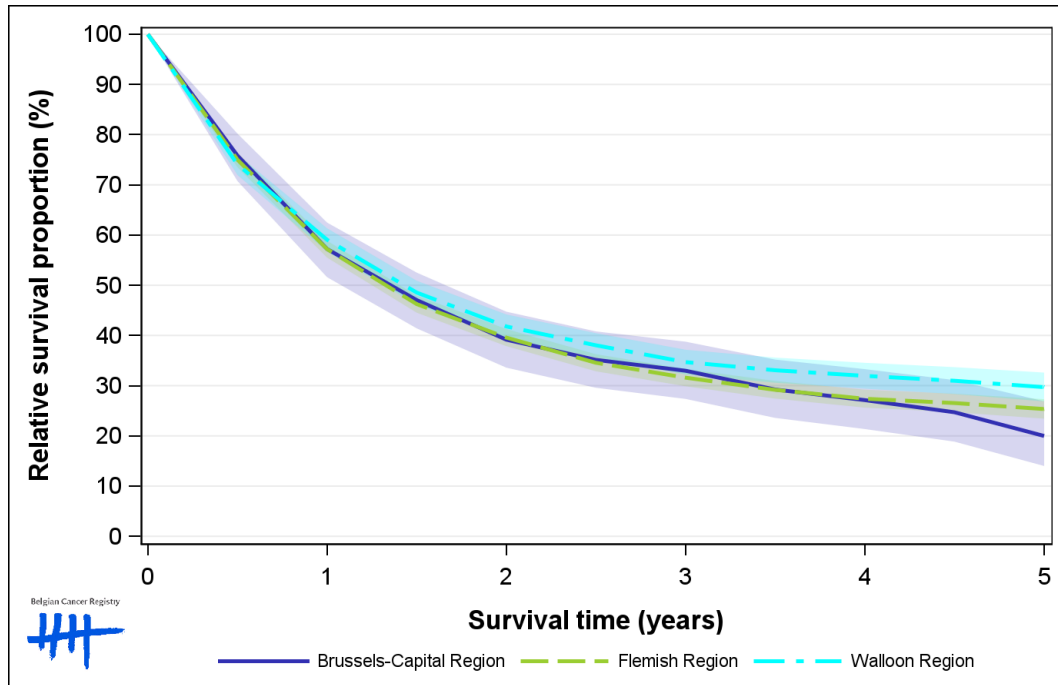


Figure 10: Oesophageal cancer: relative survival proportion by region in females, Belgium 2016-2020

