

Belgian Cancer Registry



Cancer Fact Sheet

ICD10 : C23-24

Gallbladder &
biliary tract Cancer

Belgium 2020

1. Cancer Incidence

1.1. Number of new diagnoses and incidence rates

Table 1: Gallbladder and Biliary Tract 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 |
|-------------------------|-------------|------------|------------|------------|------------|-------------|
| Belgium | 70.9 | 235 | 4.2 | 2.8 | 1.9 | 0.22 |
| Brussels-Capital Region | 73.5 | 21 | 3.5 | 3.4 | 2.1 | 0.22 |
| Flemish Region | 70.6 | 133 | 4.1 | 2.6 | 1.8 | 0.21 |
| Walloon Region | 70.8 | 81 | 4.5 | 3.2 | 2.1 | 0.25 |

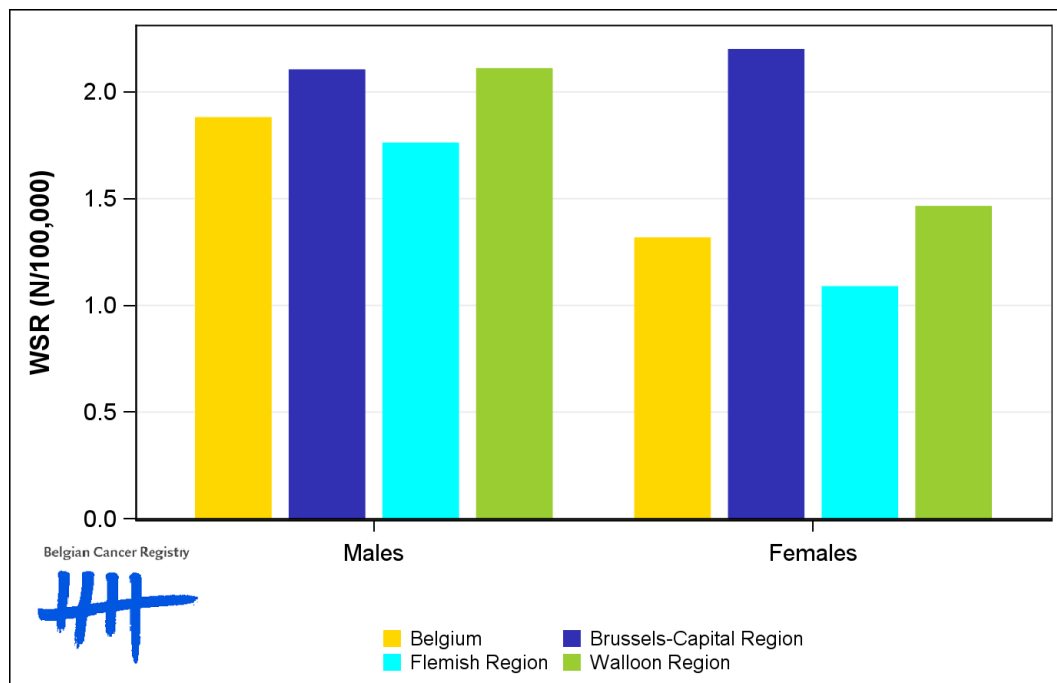
| Females | Age (years) | N | CR | ESR | WSR | CRi |
|-------------------------|-------------|------------|------------|------------|------------|-------------|
| Belgium | 74.7 | 226 | 3.9 | 2.1 | 1.3 | 0.14 |
| Brussels-Capital Region | 69.7 | 26 | 4.2 | 3.2 | 2.2 | 0.24 |
| Flemish Region | 76.3 | 125 | 3.7 | 1.8 | 1.1 | 0.11 |
| Walloon Region | 73.7 | 75 | 4.0 | 2.2 | 1.5 | 0.17 |

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: Gallbladder and Biliary Tract Cancers: Age-standardised incidence rates by sex and region, 2020



1.2. Age-specific incidence rates

Table 2: Gallbladder and Biliary Tract Cancers: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2020

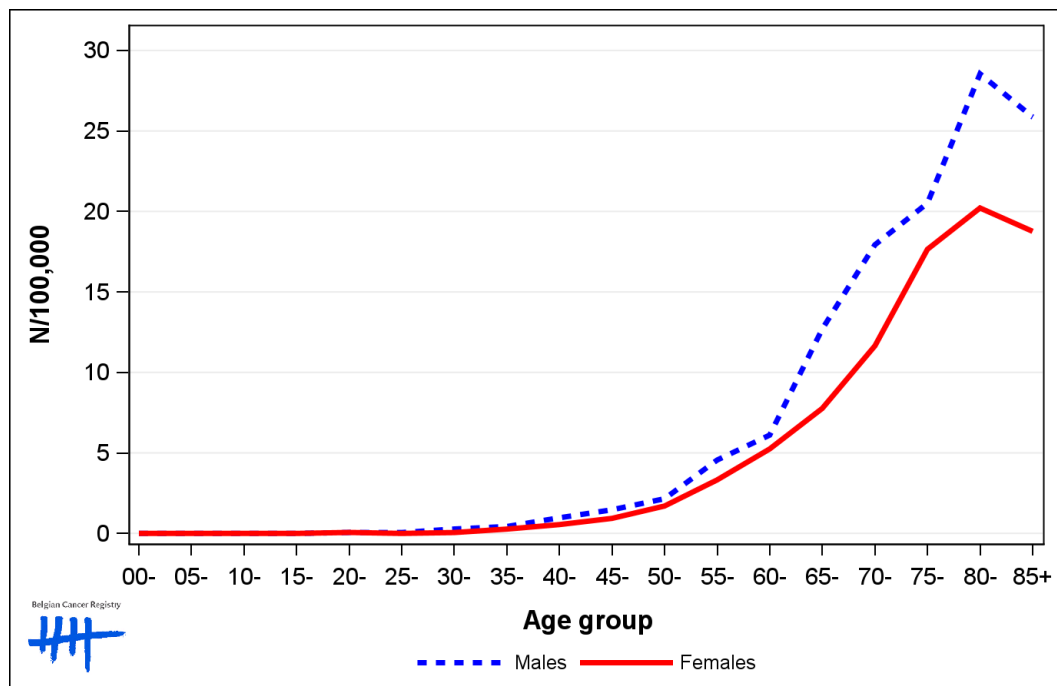
| | 00- | 05- | 10- | 15- | 20- | 25- | 30- | 35- | 40- | 45- | 50- | 55- | 60- | 65- | 70- | 75- | 80- | 85+ | CR | ESR | WSR |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|
| Males | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.5 | 1.8 | 3.2 | 3.2 | 6.7 | 13.9 | 14.7 | 20.7 | 27.9 | 20.6 | 4.2 | 2.8 | 1.9 |
| Females | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 1.1 | 0.3 | 2.0 | 3.3 | 4.4 | 6.2 | 10.4 | 18.3 | 27.0 | 19.7 | 3.9 | 2.1 | 1.3 |

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: Gallbladder and Biliary Tract Cancers: Age-specific incidence rates by sex, 2016-2020



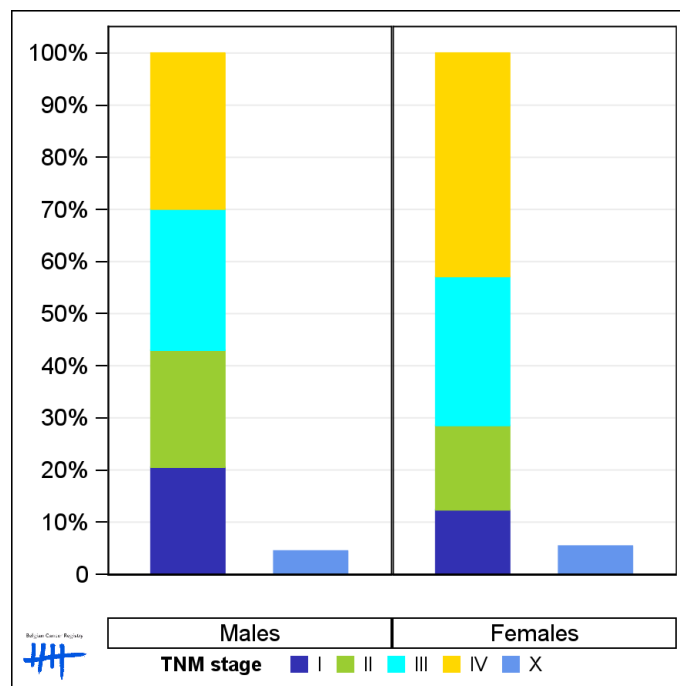
1.3. Combined stage

Table 3: Gallbladder and Biliary Tract Cancers: Distribution of combined stage by sex, Belgium 2020

| | Stage I | Stage II | Stage III | Stage IV | Stage X | Stage NA | Total |
|----------------|---------|----------|-----------|----------|---------|----------|-------|
| Males | | | | | | | |
| N | 22 | 24 | 29 | 32 | 5 | 123 | 235 |
| % | 9.4 | 10.2 | 12.3 | 13.6 | 2.1 | 52.3 | 100 |
| Females | | | | | | | |
| N | 13 | 17 | 30 | 45 | 6 | 115 | 226 |
| % | 5.8 | 7.5 | 13.3 | 19.9 | 2.7 | 50.9 | 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: Gallbladder and Biliary Tract Cancers: Bar chart of known combined stage by sex, Belgium 2020



1.4. Trends in incidence

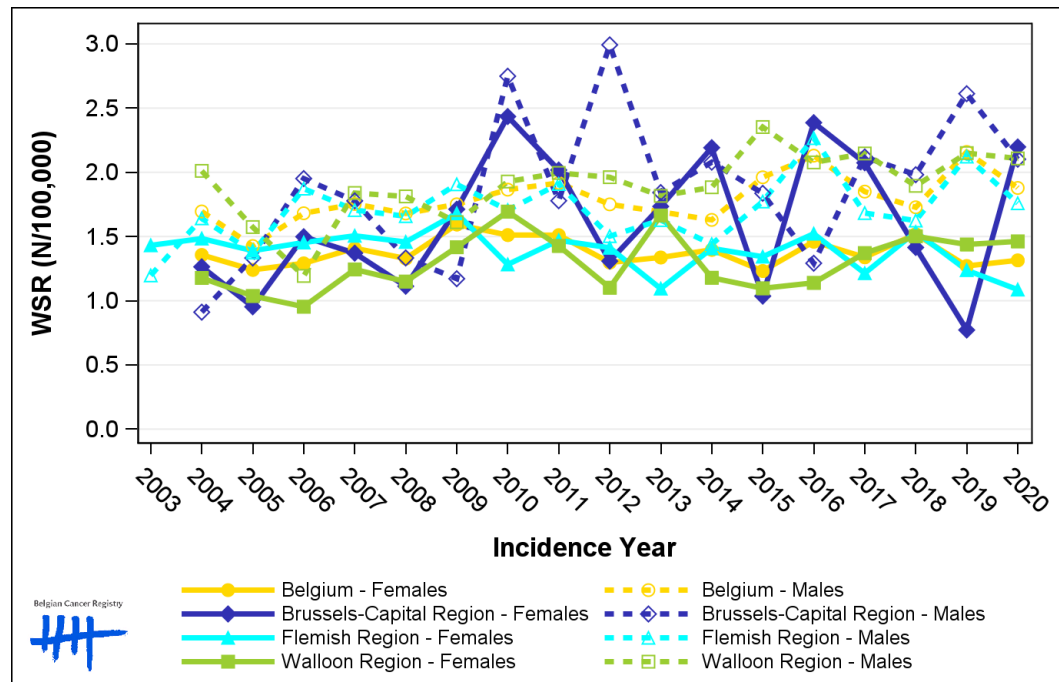
Table 4: Gallbladder and Biliary Tract Cancers: Age-standardised incidence rates (WSR) and average annual percentage change (AAPC) by incidence year, sex and region

| Males | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | AAPC | 95% CI |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| Belgium | 1.7 | 1.8 | 1.7 | 1.8 | 1.9 | 1.9 | 1.8 | 1.7 | 1.6 | 2.0 | 2.1 | 1.9 | 1.7 | 2.2 | 1.9 | 1.0 | [0.0; 2.0] |
| Brussels-Capital Region | 2.0 | 1.8 | 1.3 | 1.2 | 2.7 | 1.8 | 3.0 | 1.8 | 2.1 | 1.8 | 1.3 | 2.1 | 2.0 | 2.6 | 2.1 | 1.7 | [-1.7; 5.2] |
| Flemish Region | 1.9 | 1.7 | 1.7 | 1.9 | 1.7 | 1.9 | 1.5 | 1.6 | 1.4 | 1.8 | 2.3 | 1.7 | 1.6 | 2.1 | 1.8 | 0.3 | [-1.2; 1.9] |
| Walloon Region | 1.2 | 1.8 | 1.8 | 1.6 | 1.9 | 2.0 | 2.0 | 1.8 | 1.9 | 2.4 | 2.1 | 2.1 | 1.9 | 2.1 | 2.1 | 2.5 | [1.0; 4.0] |

| Females | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | AAPC | 95% CI |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| Belgium | 1.3 | 1.4 | 1.3 | 1.6 | 1.5 | 1.5 | 1.3 | 1.3 | 1.4 | 1.2 | 1.5 | 1.3 | 1.5 | 1.3 | 1.3 | -0.3 | [-1.3; 0.7] |
| Brussels-Capital Region | 1.5 | 1.4 | 1.1 | 1.7 | 2.4 | 2.0 | 1.3 | 1.7 | 2.2 | 1.0 | 2.4 | 2.1 | 1.4 | 0.8 | 2.2 | 0.1 | [-4.3; 4.7] |
| Flemish Region | 1.5 | 1.5 | 1.5 | 1.7 | 1.3 | 1.5 | 1.4 | 1.1 | 1.4 | 1.3 | 1.5 | 1.2 | 1.5 | 1.2 | 1.1 | -1.4 | [-2.8; 0.1] |
| Walloon Region | 1.0 | 1.2 | 1.1 | 1.4 | 1.7 | 1.4 | 1.1 | 1.7 | 1.2 | 1.1 | 1.1 | 1.4 | 1.5 | 1.4 | 1.5 | 1.8 | [-0.3; 4.0] |

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: Gallbladder and Biliary Tract Cancers: Age-standardised incidence rates (WSR) by incidence year, sex and region



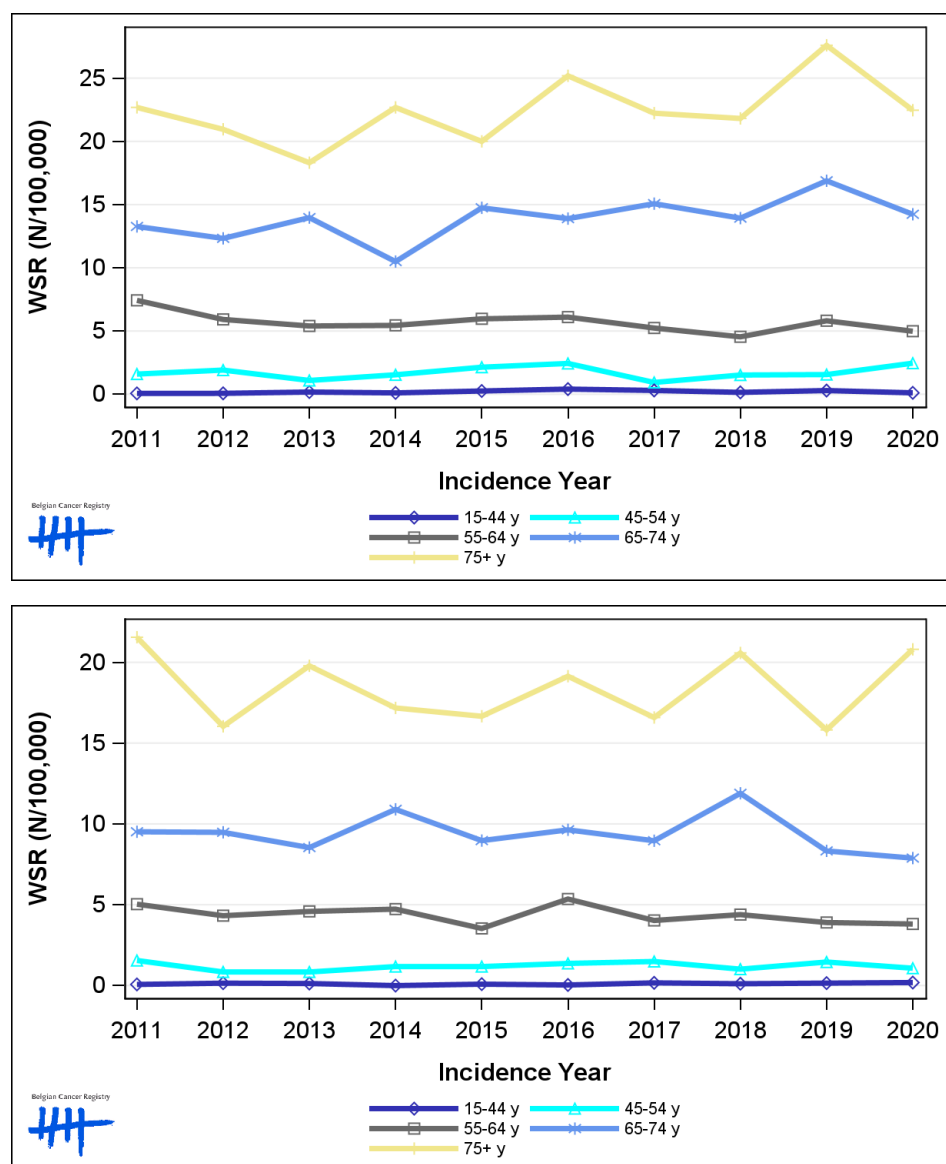
1.5. Incidence by broad age groups

Table 5: Gallbladder and Biliary Tract 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 |
| Males | | | | | | | | | | | | | | | | | | | | |
| All ages | 204 | 194 | 184 | 193 | 218 | 244 | 223 | 216 | 273 | 235 | 1.9 | 1.8 | 1.7 | 1.6 | 2.0 | 2.1 | 1.9 | 1.7 | 2.2 | 1.9 |
| 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 | 2 | 2 | 5 | 3 | 7 | 11 | 8 | 4 | 7 | 3 | <0.1 | <0.1 | 0.2 | 0.1 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 | 0.1 |
| 45-54 y | 13 | 16 | 9 | 13 | 18 | 20 | 8 | 13 | 12 | 20 | 1.6 | 1.9 | 1.1 | 1.5 | 2.1 | 2.4 | 0.9 | 1.5 | 1.6 | 2.5 |
| 55-64 y | 49 | 39 | 36 | 37 | 41 | 43 | 38 | 33 | 43 | 37 | 7.4 | 5.9 | 5.4 | 5.4 | 6.0 | 6.1 | 5.2 | 4.5 | 5.8 | 5.0 |
| 65-74 y | 60 | 57 | 65 | 50 | 72 | 70 | 79 | 76 | 95 | 80 | 13.3 | 12.3 | 14.0 | 10.5 | 14.7 | 13.9 | 15.1 | 13.9 | 16.9 | 14.2 |
| 75+ y | 80 | 80 | 69 | 90 | 80 | 100 | 90 | 90 | 116 | 95 | 22.7 | 21.0 | 18.3 | 22.7 | 20.0 | 25.2 | 22.2 | 21.8 | 27.6 | 22.5 |
| Females | | | | | | | | | | | | | | | | | | | | |
| All ages | 228 | 188 | 203 | 212 | 194 | 223 | 201 | 242 | 192 | 226 | 1.5 | 1.3 | 1.3 | 1.4 | 1.2 | 1.5 | 1.3 | 1.5 | 1.3 | 1.3 |
| 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 | 2 | 4 | 3 | 0 | 2 | 1 | 4 | 3 | 4 | 5 | <0.1 | 0.1 | 0.1 | 0.0 | <0.1 | <0.1 | 0.2 | 0.1 | 0.2 | 0.2 |
| 45-54 y | 13 | 7 | 7 | 10 | 10 | 11 | 12 | 8 | 12 | 9 | 1.6 | 0.8 | 0.8 | 1.2 | 1.2 | 1.4 | 1.5 | 1.0 | 1.5 | 1.1 |
| 55-64 y | 34 | 30 | 31 | 33 | 25 | 38 | 29 | 33 | 29 | 29 | 5.0 | 4.3 | 4.6 | 4.7 | 3.5 | 5.4 | 4.0 | 4.4 | 3.9 | 3.8 |
| 65-74 y | 50 | 49 | 44 | 58 | 48 | 54 | 51 | 71 | 52 | 50 | 9.5 | 9.5 | 8.5 | 10.9 | 9.0 | 9.6 | 9.0 | 11.9 | 8.3 | 7.9 |
| 75+ y | 129 | 98 | 118 | 111 | 109 | 119 | 105 | 127 | 95 | 133 | 21.5 | 16.0 | 19.8 | 17.2 | 16.7 | 19.1 | 16.6 | 20.6 | 15.8 | 20.8 |

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

Figure 5: Gallbladder and Biliary Tract Cancers: Age-standardised incidence rates (WSR) versus incidence year by broad age groups for males (top) and females (bottom), Belgium



2. Relative survival

Table 6: Gallbladder and Biliary Tract 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 |
| Overall | 1,185 | 23.5 | [20.2, 27.0] | 1,076 | 17.2 | [14.4, 20.2] |
| Age group | | | | | | |
| 15-59 years | 193 | 31.6 | [23.7, 39.9] | 132 | 28.9 | [19.3, 39.3] |
| 60-74 years | 502 | 26.9 | [21.8, 32.3] | 366 | 19.2 | [14.8, 24.2] |
| 75+ years | 490 | 16.2 | [11.5, 21.9] | 578 | 13.3 | [9.7, 17.7] |
| Region | | | | | | |
| Brussels-Capital Region | 89 | 24.5 | [14.4, 36.5] | 100 | 21.7 | [13.2, 31.9] |
| Flemish Region | 716 | 26.2 | [21.9, 30.7] | 633 | 17.9 | [14.3, 22.0] |
| Walloon Region | 380 | 18.5 | [13.2, 24.7] | 343 | 14.5 | [9.9, 20.0] |

Figure 6: Gallbladder and Biliary Tract Cancers: relative survival proportion by sex, Belgium 2016-2020

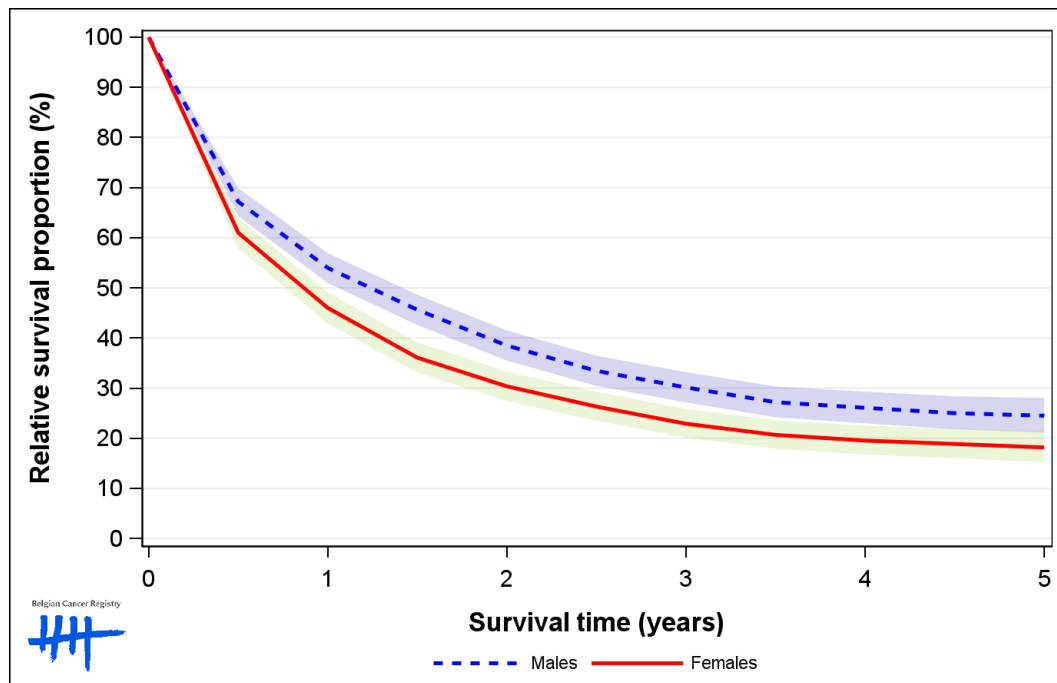


Figure 7: Gallbladder and Biliary Tract Cancers: relative survival proportion by age group in males, Belgium 2016-2020

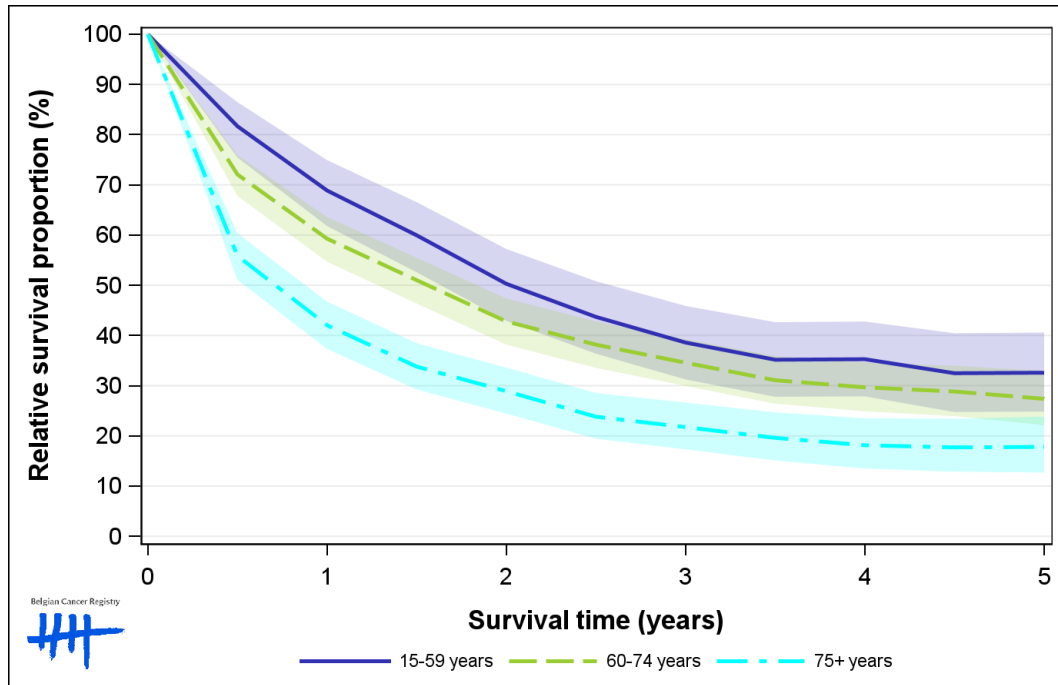


Figure 8: Gallbladder and Biliary Tract Cancers: relative survival proportion by age group in females, Belgium 2016-2020

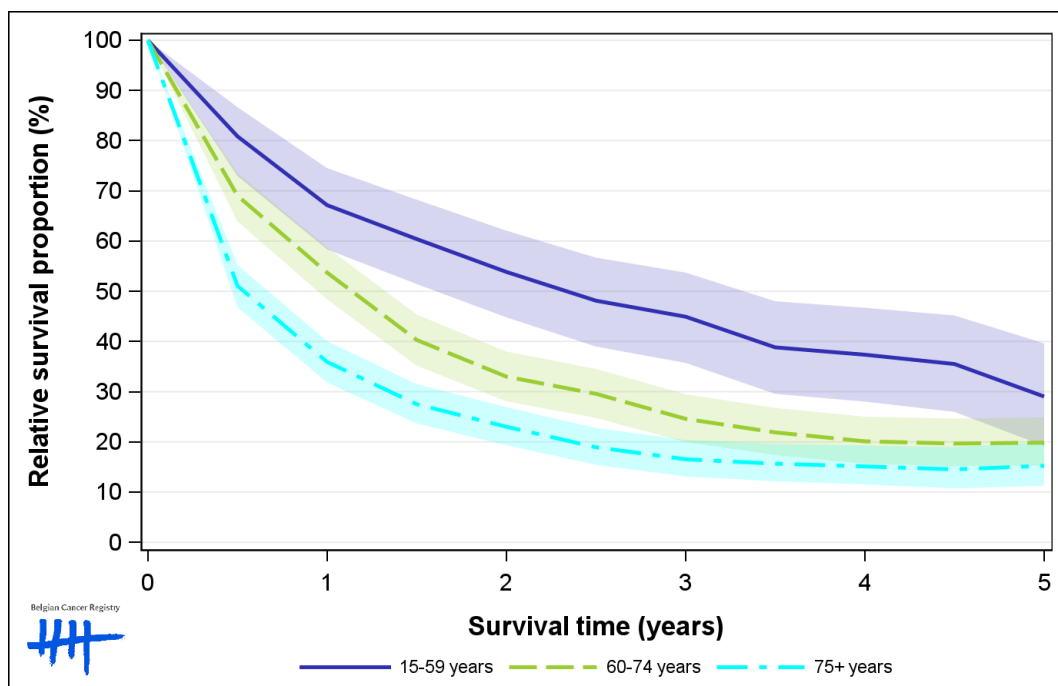


Figure 9: Gallbladder and Biliary Tract Cancers: relative survival proportion by region in males, Belgium 2016-2020

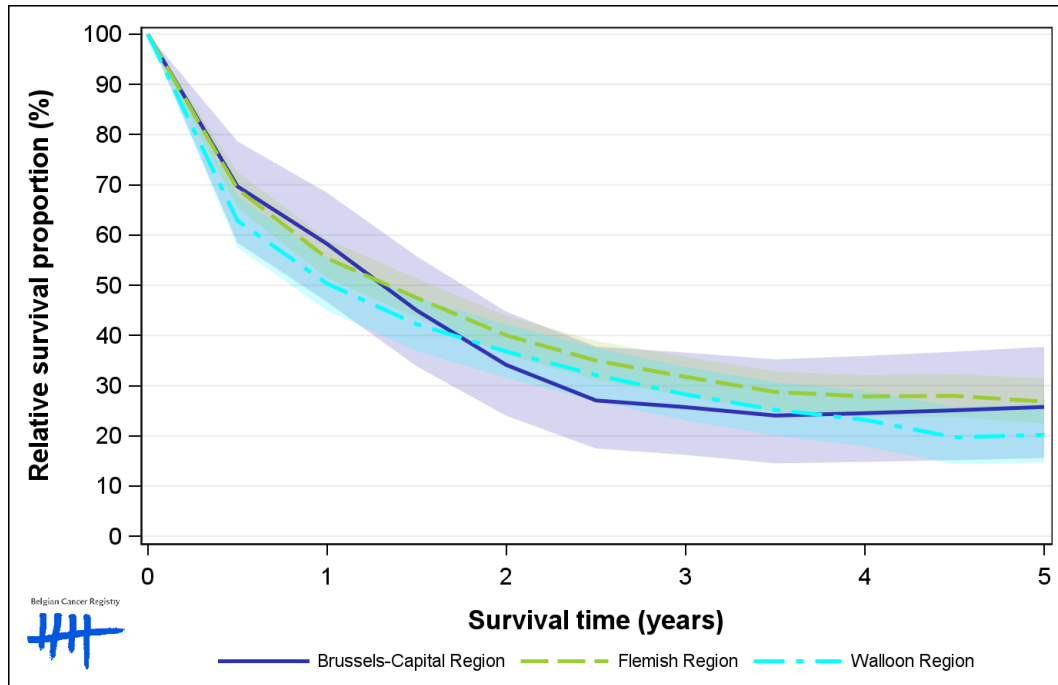


Figure 10: Gallbladder and Biliary Tract Cancers: relative survival proportion by region in females, Belgium 2016-2020

