

Belgian Cancer Registry



# Cancer Fact Sheet **Liver Cancer**

ICD10 : C22

**Belgium 2022**

# 1. Cancer Incidence

## 1.1. Number of new diagnoses and incidence rates

**Table 1:** Liver 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, 2022

| Males                   | Age (years) | N          | CR          | ESR         | WSR        | CRi         |
|-------------------------|-------------|------------|-------------|-------------|------------|-------------|
| <b>Belgium</b>          | <b>69.5</b> | <b>881</b> | <b>15.4</b> | <b>16.3</b> | <b>7.1</b> | <b>0.91</b> |
| Brussels-Capital Region | 69.3        | 77         | 12.8        | 20.2        | 8.6        | 1.06        |
| Flemish Region          | 69.9        | 459        | 13.8        | 13.7        | 5.9        | 0.75        |
| Walloon Region          | 69.1        | 345        | 19.3        | 20.9        | 9.2        | 1.17        |

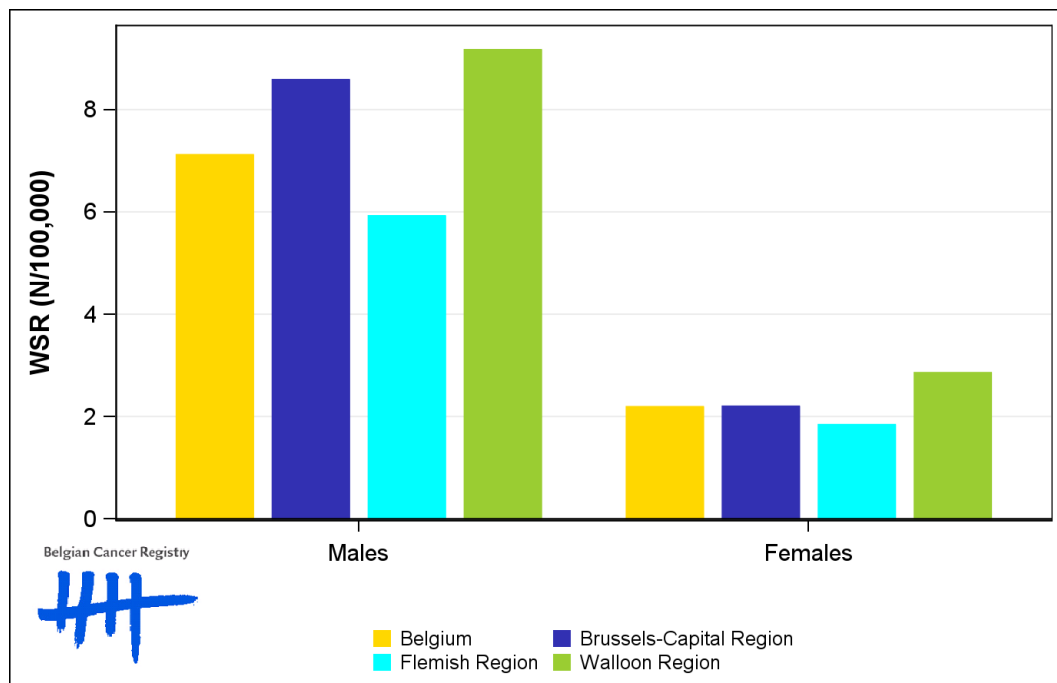
| Females                 | Age (years) | N          | CR         | ESR        | WSR        | CRi         |
|-------------------------|-------------|------------|------------|------------|------------|-------------|
| <b>Belgium</b>          | <b>72.3</b> | <b>328</b> | <b>5.6</b> | <b>5.2</b> | <b>2.2</b> | <b>0.26</b> |
| Brussels-Capital Region | 75.0        | 31         | 5.0        | 6.3        | 2.2        | 0.23        |
| Flemish Region          | 72.9        | 167        | 4.9        | 4.3        | 1.8        | 0.22        |
| Walloon Region          | 70.9        | 130        | 7.0        | 6.5        | 2.9        | 0.34        |

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:** Liver cancer: Age-standardised incidence rates by sex and region, 2022



## 1.2. Age-specific incidence rates

**Table 2:** Liver cancer: Age-specific incidence rates, crude rate (CR) and age-standardised incidence rates (ESR and WSR) by sex, Belgium 2022

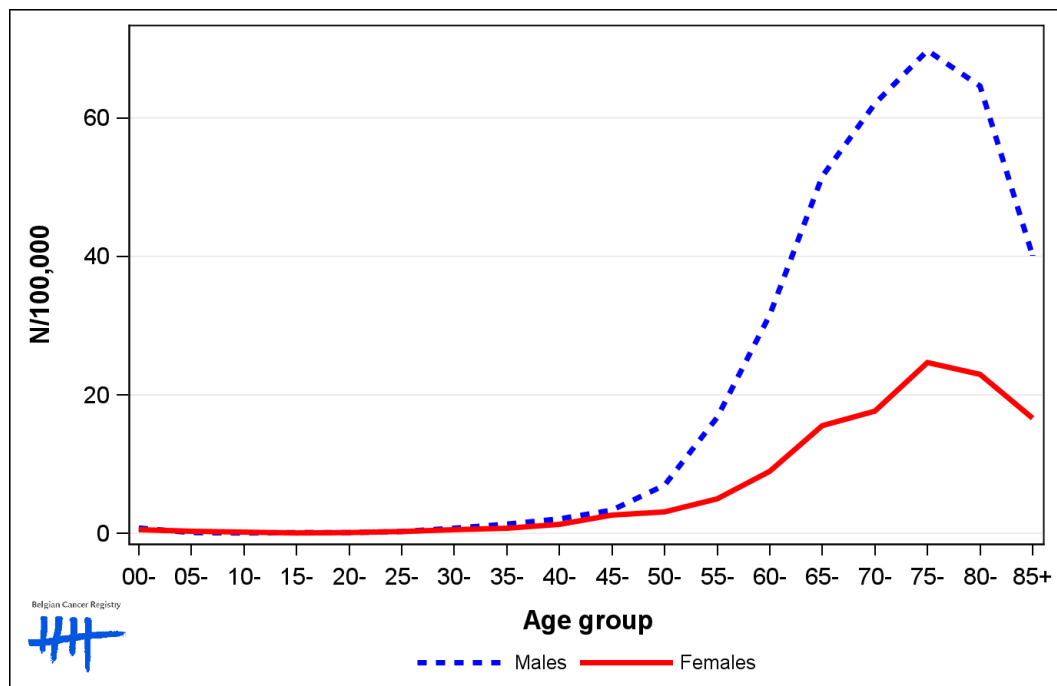
|         | 00- | 05- | 10- | 15- | 20- | 25- | 30- | 35- | 40- | 45- | 50- | 55-  | 60-  | 65-  | 70-  | 75-  | 80-  | 85+  | CR   | ESR  | WSR |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|
| Males   | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 1.8 | 3.5 | 6.6 | 19.6 | 29.5 | 56.7 | 61.7 | 78.3 | 75.8 | 45.5 | 15.4 | 16.3 | 7.1 |
| Females | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 1.1 | 0.3 | 2.5 | 2.1 | 3.0  | 7.4  | 17.1 | 17.6 | 29.0 | 21.9 | 21.4 | 5.6  | 5.2  | 2.2 |

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:** Liver cancer: Age-specific incidence rates by sex, 2018-2022



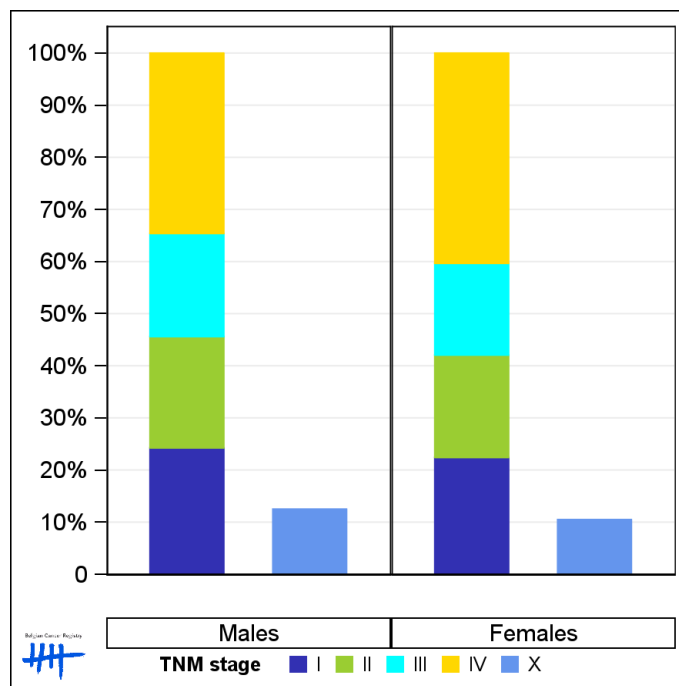
### 1.3. Combined stage

**Table 3:** Liver cancer: Distribution of combined stage by sex, Belgium 2022

|                | Stage I | Stage II | Stage III | Stage IV | Stage X | Stage NA | Total |
|----------------|---------|----------|-----------|----------|---------|----------|-------|
| <b>Males</b>   |         |          |           |          |         |          |       |
| N              | 185     | 163      | 151       | 264      | 109     | 9        | 881   |
| %              | 21.0    | 18.5     | 17.1      | 30.0     | 12.4    | 1.0      | 100   |
| <b>Females</b> |         |          |           |          |         |          |       |
| N              | 65      | 57       | 51        | 117      | 34      | 4        | 328   |
| %              | 19.8    | 17.4     | 15.5      | 35.7     | 10.4    | 1.2      | 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:** Liver cancer: Bar chart of known combined stage by sex, Belgium 2022



## 1.4. Trends in incidence

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

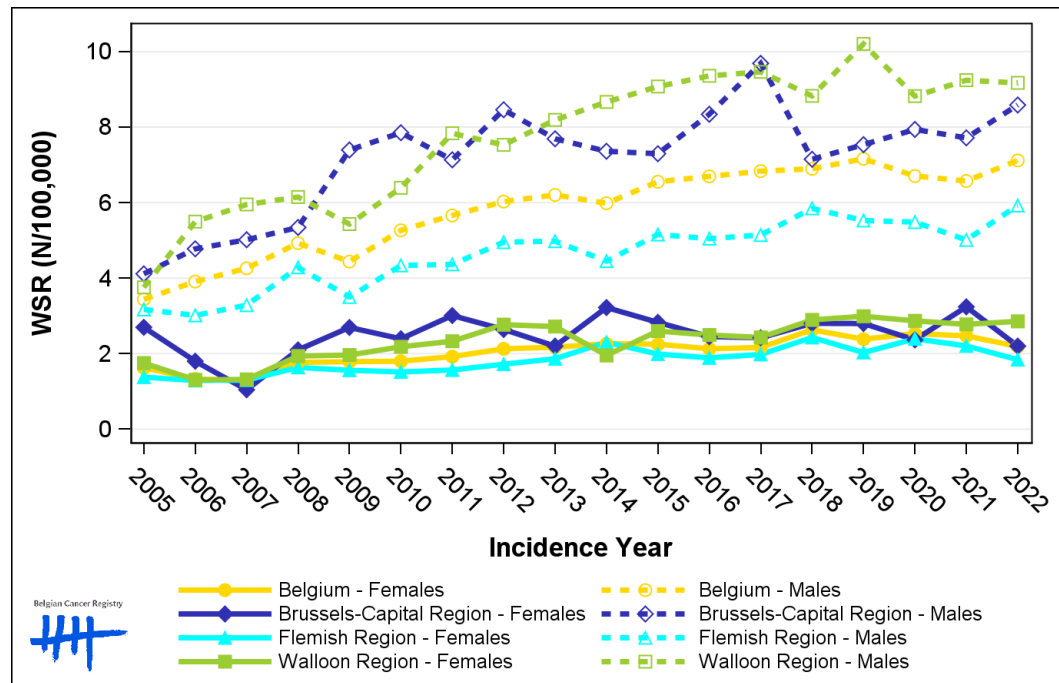
| Males                   | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | AAPC | 95% CI      |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| <b>Belgium</b>          | 4.9  | 4.4  | 5.3  | 5.7  | 6.0  | 6.2  | 6.0  | 6.6  | 6.7  | 6.8  | 6.9  | 7.2  | 6.7  | 6.6  | 7.1  | 2.7  | [2.0; 3.3]  |
| Brussels-Capital Region | 5.3  | 7.4  | 7.9  | 7.1  | 8.5  | 7.7  | 7.4  | 7.3  | 8.3  | 9.7  | 7.1  | 7.5  | 7.9  | 7.7  | 8.6  | 1.4  | [-0.1; 2.9] |
| Flemish Region          | 4.3  | 3.5  | 4.3  | 4.4  | 5.0  | 5.0  | 4.5  | 5.2  | 5.0  | 5.1  | 5.8  | 5.5  | 5.5  | 5.0  | 5.9  | 2.6  | [1.6; 3.7]  |
| Walloon Region          | 6.1  | 5.4  | 6.4  | 7.8  | 7.5  | 8.2  | 8.7  | 9.1  | 9.4  | 9.5  | 8.8  | 10.2 | 8.8  | 9.2  | 9.2  | 3.5  | [2.6; 4.3]  |

| Females                 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | AAPC | 95% CI      |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| <b>Belgium</b>          | 1.8  | 1.8  | 1.8  | 1.9  | 2.1  | 2.2  | 2.3  | 2.3  | 2.1  | 2.2  | 2.6  | 2.4  | 2.5  | 2.5  | 2.2  | 2.5  | [1.7; 3.3]  |
| Brussels-Capital Region | 2.1  | 2.7  | 2.4  | 3.0  | 2.6  | 2.2  | 3.2  | 2.8  | 2.5  | 2.4  | 2.8  | 2.8  | 2.4  | 3.2  | 2.2  | 0.4  | [-1.4; 2.2] |
| Flemish Region          | 1.6  | 1.6  | 1.5  | 1.6  | 1.7  | 1.9  | 2.3  | 2.0  | 1.9  | 2.0  | 2.4  | 2.0  | 2.4  | 2.2  | 1.8  | 2.7  | [1.4; 4.1]  |
| Walloon Region          | 1.9  | 2.0  | 2.2  | 2.3  | 2.8  | 2.7  | 2.0  | 2.6  | 2.5  | 2.4  | 2.9  | 3.0  | 2.9  | 2.8  | 2.9  | 2.6  | [1.3; 4.0]  |

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



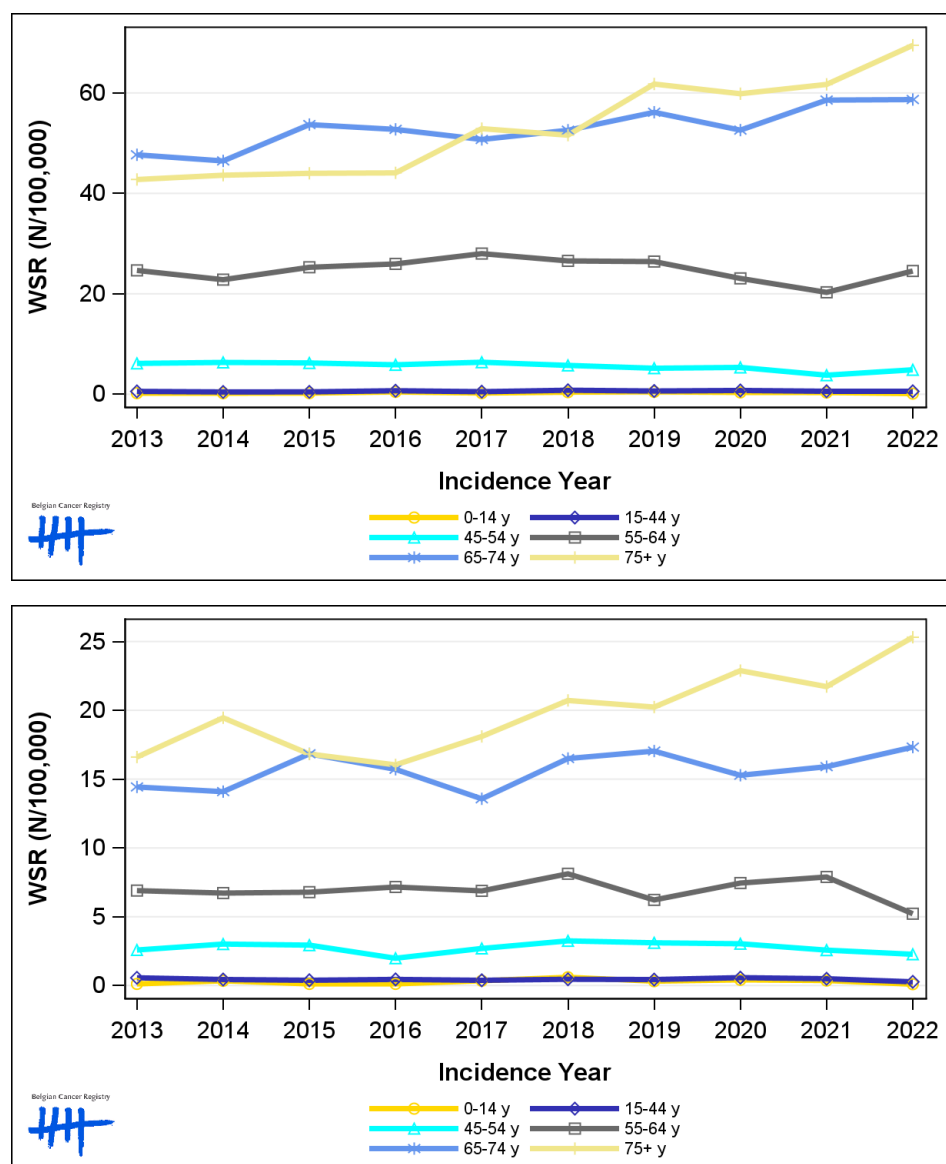
## 1.5. Incidence by broad age groups

**Table 5:** Liver cancer: 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 |  |  |
| <b>Males</b>   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| All ages       | 618  | 611  | 671  | 694  | 739  | 754  | 816  | 776  | 792  | 881  | 6.2  | 6.0  | 6.6  | 6.7  | 6.8  | 6.9  | 7.2  | 6.7  | 6.6  | 7.1  |  |  |
| 0-14 y         | 2    | 2    | 2    | 4    | 2    | 4    | 4    | 3    | 3    | 1    | 0.2  | 0.2  | 0.2  | 0.5  | 0.2  | 0.4  | 0.5  | 0.4  | 0.4  | 0.1  |  |  |
| 15-44 y        | 14   | 12   | 12   | 19   | 13   | 21   | 17   | 19   | 14   | 16   | 0.6  | 0.5  | 0.5  | 0.7  | 0.5  | 0.8  | 0.7  | 0.8  | 0.6  | 0.6  |  |  |
| 45-54 y        | 52   | 53   | 51   | 50   | 55   | 48   | 42   | 45   | 31   | 39   | 6.1  | 6.3  | 6.2  | 5.9  | 6.4  | 5.7  | 5.2  | 5.4  | 3.8  | 4.9  |  |  |
| 55-64 y        | 166  | 154  | 173  | 180  | 198  | 191  | 193  | 172  | 152  | 188  | 24.7 | 22.8 | 25.3 | 26.0 | 28.0 | 26.6 | 26.4 | 23.1 | 20.3 | 24.5 |  |  |
| 65-74 y        | 221  | 220  | 262  | 265  | 266  | 285  | 313  | 296  | 340  | 340  | 47.7 | 46.5 | 53.7 | 52.7 | 50.7 | 52.6 | 56.2 | 52.6 | 58.6 | 58.7 |  |  |
| 75+ y          | 163  | 170  | 171  | 176  | 205  | 205  | 247  | 241  | 252  | 297  | 42.8 | 43.6 | 44.0 | 44.1 | 52.9 | 51.6 | 61.8 | 59.8 | 61.7 | 69.5 |  |  |
| <b>Females</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
| All ages       | 253  | 274  | 276  | 267  | 272  | 326  | 304  | 331  | 321  | 328  | 2.2  | 2.3  | 2.3  | 2.1  | 2.2  | 2.6  | 2.4  | 2.5  | 2.5  | 2.2  |  |  |
| 0-14 y         | 1    | 3    | 1    | 1    | 3    | 5    | 3    | 4    | 3    | 1    | 0.1  | 0.3  | 0.1  | 0.1  | 0.4  | 0.6  | 0.3  | 0.4  | 0.4  | 0.1  |  |  |
| 15-44 y        | 14   | 11   | 10   | 11   | 9    | 12   | 11   | 13   | 13   | 7    | 0.6  | 0.4  | 0.4  | 0.4  | 0.4  | 0.5  | 0.4  | 0.6  | 0.5  | 0.3  |  |  |
| 45-54 y        | 21   | 25   | 25   | 16   | 22   | 26   | 24   | 24   | 20   | 17   | 2.6  | 3.0  | 2.9  | 2.0  | 2.7  | 3.3  | 3.1  | 3.0  | 2.6  | 2.3  |  |  |
| 55-64 y        | 48   | 46   | 47   | 51   | 50   | 60   | 46   | 57   | 60   | 40   | 6.9  | 6.7  | 6.8  | 7.2  | 6.9  | 8.1  | 6.2  | 7.5  | 7.9  | 5.2  |  |  |
| 65-74 y        | 75   | 75   | 91   | 87   | 78   | 99   | 103  | 94   | 99   | 109  | 14.4 | 14.1 | 16.8 | 15.7 | 13.6 | 16.5 | 17.0 | 15.3 | 15.9 | 17.3 |  |  |
| 75+ y          | 94   | 114  | 102  | 101  | 110  | 124  | 117  | 139  | 126  | 154  | 16.6 | 19.5 | 16.8 | 16.0 | 18.1 | 20.7 | 20.2 | 22.9 | 21.7 | 25.3 |  |  |

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

**Figure 5:** Liver cancer: Age-standardised incidence rates (WSR) versus incidence year by broad age groups for males (top) and females (bottom), Belgium

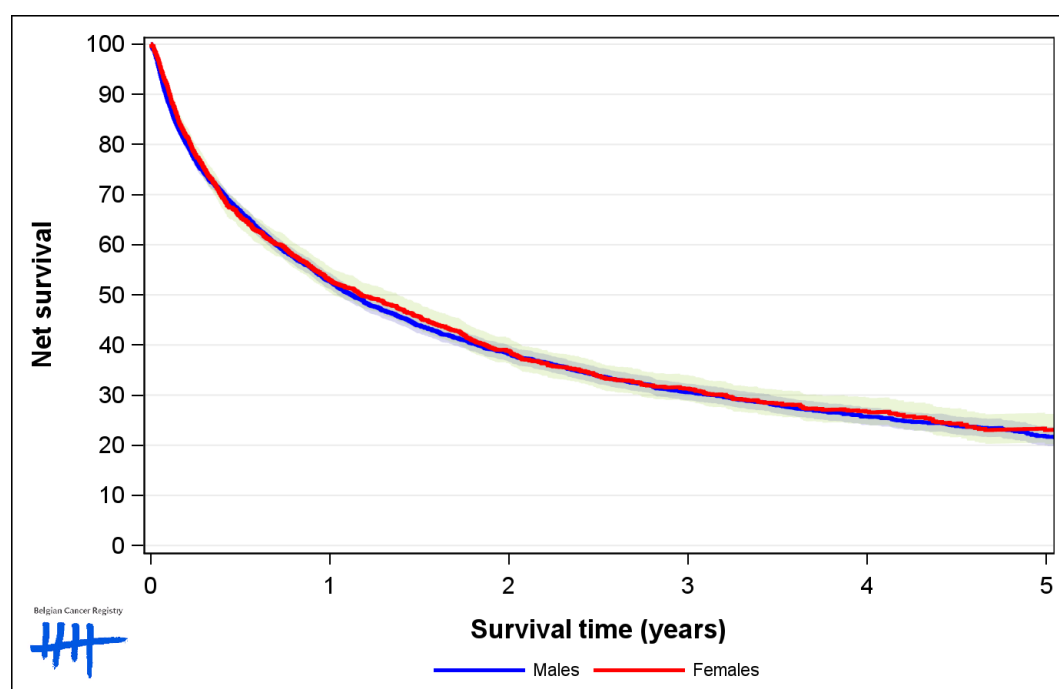


## 2. Net survival

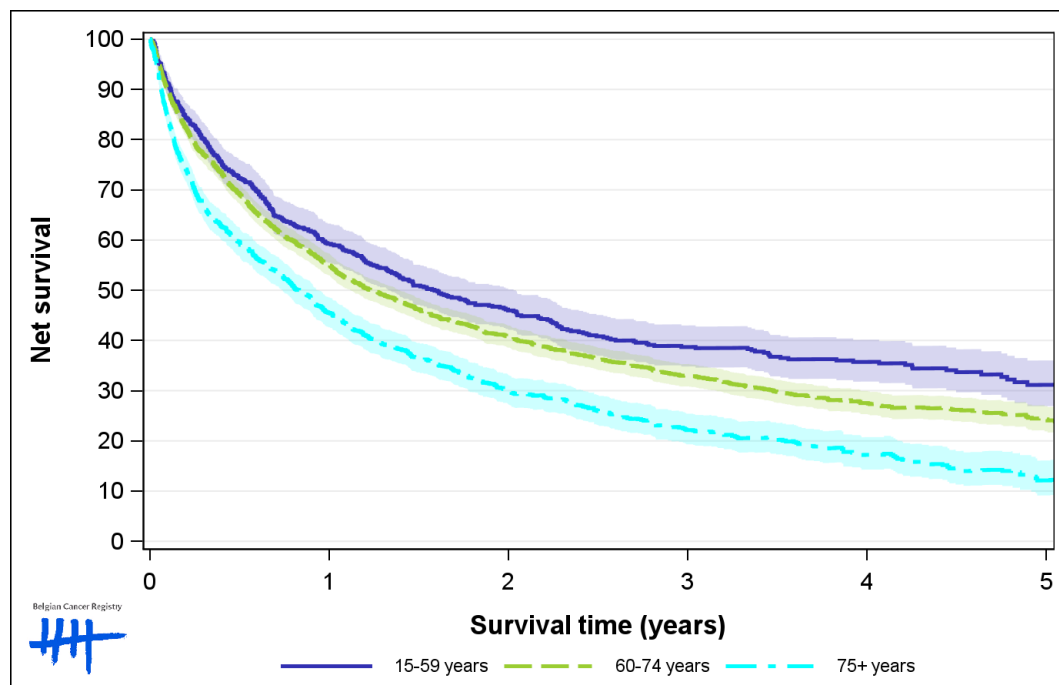
**Table 6:** Liver cancer: 5-year net survival by sex, age group and region, Belgium 2018-2022

|                         | 5-year net survival 2018-2022 (%) |          |              |           |          |              |
|-------------------------|-----------------------------------|----------|--------------|-----------|----------|--------------|
|                         | Males                             |          |              | Females   |          |              |
|                         | N at risk                         | estimate | 95% CI       | N at risk | estimate | 95% CI       |
| <b>Overall</b>          | 3,986                             | 21.8     | [20.0, 23.8] | 1,585     | 23.1     | [20.2, 26.2] |
| <b>Age group</b>        |                                   |          |              |           |          |              |
| 15-59 years             | 619                               | 31.2     | [26.9, 36.0] | 266       | 29.1     | [22.9, 37.0] |
| 60-74 years             | 2,128                             | 24.3     | [21.9, 26.9] | 664       | 23.7     | [19.8, 28.3] |
| 75+ years               | 1,239                             | 12.2     | [9.2, 16.2]  | 655       | 19.6     | [15.1, 25.4] |
| <b>Region</b>           |                                   |          |              |           |          |              |
| Brussels-Capital Region | 324                               | 18.9     | [13.1, 27.2] | 150       | 26.5     | [18.3, 38.4] |
| Flemish Region          | 2,016                             | 21.5     | [19.0, 24.3] | 856       | 20.6     | [17.2, 24.7] |
| Walloon Region          | 1,646                             | 22.7     | [19.9, 25.8] | 579       | 25.5     | [20.6, 31.6] |

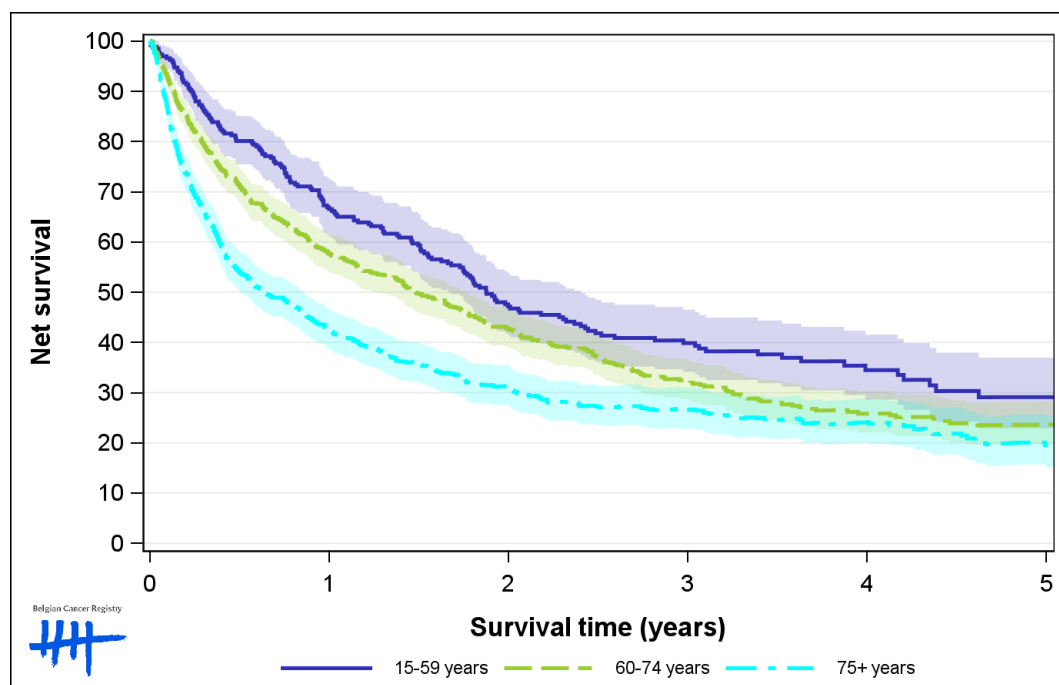
**Figure 6:** Liver cancer: net survival by sex, Belgium 2018-2022



**Figure 7:** Liver cancer: net survival by age group in males, Belgium 2018-2022

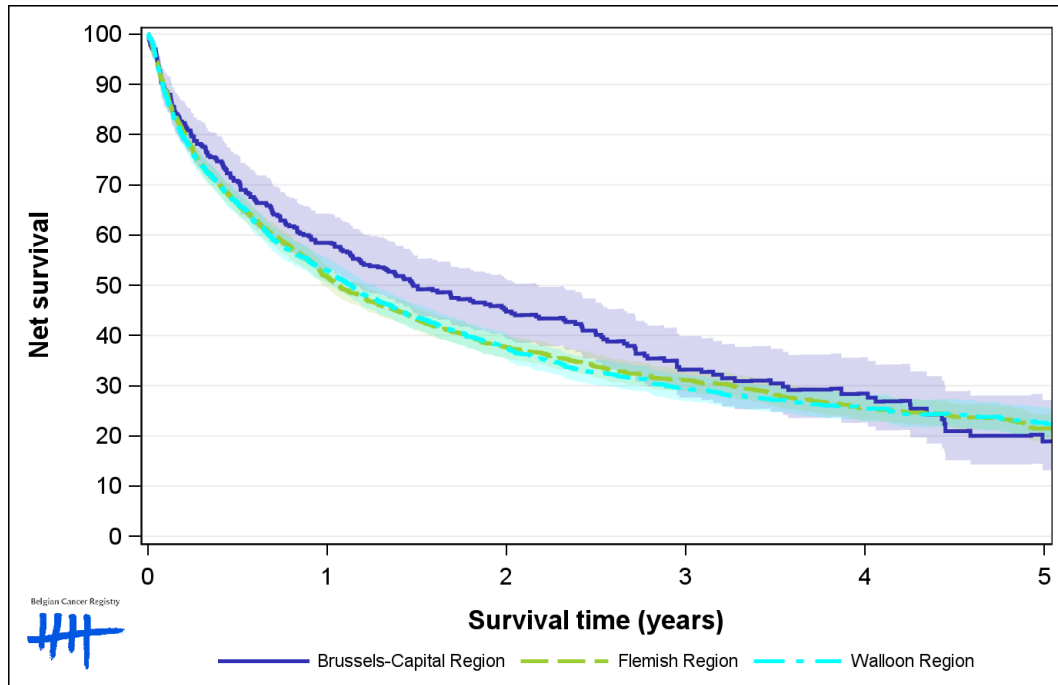


**Figure 8:** Liver cancer: net survival by age group in females, Belgium 2018-2022





**Figure 9:** Liver cancer: net survival by region in males, Belgium 2018-2022



**Figure 10:** Liver cancer: net survival by region in females, Belgium 2018-2022

