

| Table 1 - General rates, 2016   |   | ♂           | ♀          | ♂          |
|---|---|-------------|------------|------------|
| Incidence: number of new cases*   |   | 1477        | 865        | 612        |
| Incidence (crude rate)  |   | 4.1         | 5.2        | 3.2        |
| Incidence (age-standardized, world standard)                              |   | 2.4         | 3.6        | 1.6        |
| Incidence (age-standardized, Ukrainian standard)                          |   | 3.7         | 5.7        | 2.5        |
| Change of incidence rate 2016 compared to 2015, %<br>(Ukrainian standard) |   | 14.4%<br>↑↑ | 13.7%<br>↑ | 15.1%<br>↑ |
| Mortality: number of new cases*   |   | 1163        | 706        | 457        |
| Mortality (crude rate)  |   | 3.2         | 4.2        | 2.4        |
| Mortality (age-standardized, world standard)                              |   | 1.8         | 2.9        | 1.2        |
| Mortality (age-standardized, Ukrainian standard)                          |   | 2.9         | 4.6        | 1.9        |
| Lived less than 1 year since the diagnosis in 2015, %                     |   | 75.8        | 76.5       | 74.7       |
| From among the newly diagnosed – diagnosed post mortem, %                 |   | 9.0         | 10.7       | 6.7        |
| Microscopically verified diagnoses, %                                     |   | 50.1        | 49.1       | 51.5       |
| Diagnoses verified with histology, %                                      |   | 43.9        | 43.9       | 43.8       |
| Not specified morphology, %   |   | 14.2        | 12.7       | 16.2       |
| Patients diagnosed during the preventive medical examinations, %          |   | 2.6         | 2.9        | 2.1        |
| Newly diagnosed patients received the anti-cancer treatment, %            |   | 19.3        | 17.5       | 21.8       |
| - surgical treatment only, %  |   | 6.7         | 6.5        | 7.0        |
| - treatment combined or complex, %  |   | 3.0         | 2.8        | 3.2        |
| Incidence of children population<br>(age 0-17 years):                     | cases*                                  | 18          | 12         | 6          |
|   | rate per 100 000 of children population | 0.3         | 0.4        | 0.2        |
| Mortality of children population<br>(age 0-17 years):                     | cases*                                  | 8           | 5          | 3          |
|   | rate per 100 000 of children population | 0.1         | 0.2        | 0.1        |

\* - does not include cases of Donetsk and Luhansk oblast, AR Krym, Sevastopol city

| Table 2 -<br>Incidence and<br>mortality,<br>2016 | Crude incidence rate<br>per 100 000 of<br>population |            |            | Age-standardized<br>incidence rate<br>(world standard) |            |            | Age-standardized<br>incidence rate<br>(Ukrainian<br>standard) |            |            | Crude mortality rate<br>per 100 000 of<br>population |            |            | Age-standardized<br>mortality rate<br>(world standard) |            |            | Age-standardized<br>mortality rate<br>(Ukrainian<br>standard) |            |            |
|--|--|------------|------------|--|------------|------------|---|------------|------------|--|------------|------------|--|------------|------------|---|------------|------------|
|  | ♂  | ♀          | ♂          | ♂  | ♀          | ♂          | ♂   | ♀          | ♂          | ♂  | ♀          | ♂          | ♂  | ♀          | ♂          | ♂   | ♀          | ♂          |
| <b>Ukraine</b>                                   | <b>4.1</b>   | <b>5.2</b> | <b>3.2</b> | <b>2.4</b>   | <b>3.6</b> | <b>1.6</b> | <b>3.7</b>  | <b>5.7</b> | <b>2.5</b> | <b>3.2</b>   | <b>4.2</b> | <b>2.4</b> | <b>1.8</b>   | <b>2.9</b> | <b>1.2</b> | <b>2.9</b>  | <b>4.6</b> | <b>1.9</b> |
| AR Krym  |  |            |            |  |            |            |   |            |            |  |            |            |  |            |            |   |            |            |
| Vinnitska  | 3.7  | 4.5        | 3.0        | 2.2  | 3.1        | 1.6        | 3.4   | 5.1        | 2.4        | 2.8  | 3.5        | 2.1        | 1.6  | 2.3        | 1.3        | 2.5   | 4.1        | 1.6        |
| Volynska   | 2.7  | 2.2        | 3.1        | 2.0  | 2.0        | 1.9        | 2.7   | 2.3        | 2.9        | 2.2  | 2.7        | 1.8        | 1.7  | 2.3        | 1.3        | 2.3   | 3.2        | 1.7        |
| Dnipropetrovska                                  | 5.2  | 6.7        | 4.0        | 3.0  | 4.7        | 2.0        | 4.5   | 7.0        | 2.8        | 4.3  | 5.7        | 3.1        | 2.3  | 3.8        | 1.3        | 3.7   | 6.1        | 2.1        |
| Donetska   |  |            |            |  |            |            |   |            |            |  |            |            |  |            |            |   |            |            |
| Zhytomyrska                                      | 2.1  | 1.9        | 2.2        | 1.1  | 1.3        | 0.9        | 1.9   | 2.4        | 1.7        | 2.0  | 1.9        | 2.1        | 1.2  | 1.2        | 1.2        | 1.8   | 2.1        | 1.7        |
| Zakarpat'ska                                     | 3.5  | 4.6        | 2.5        | 2.5  | 3.8        | 1.6        | 3.7   | 5.6        | 2.3        | 3.5  | 4.3        | 2.8        | 2.4  | 3.5        | 1.7        | 3.6   | 5.4        | 2.4        |
| Zaporizka  | 3.7  | 5.1        | 2.4        | 2.1  | 3.4        | 1.2        | 3.2   | 5.5        | 1.9        | 3.4  | 4.6        | 2.4        | 1.9  | 2.9        | 1.2        | 3.0   | 4.9        | 1.9        |
| Ivano-Frankiv'ska                                | 1.9  | 1.8        | 1.9        | 1.2  | 1.3        | 1.1        | 1.8   | 1.7        | 1.7        | 2.0  | 2.3        | 1.7        | 1.3  | 1.6        | 1.0        | 1.9   | 2.2        | 1.5        |
| Kyiv'ska   | 2.7  | 3.4        | 2.0        | 1.5  | 2.3        | 0.9        | 2.5   | 4.0        | 1.5        | 2.1  | 2.9        | 1.4        | 1.2  | 2.0        | 0.6        | 2.0   | 3.4        | 1.2        |
| Kirovograd'ska                                   | 5.0  | 7.4        | 2.9        | 2.7  | 4.5        | 1.4        | 4.2   | 7.3        | 2.2        | 3.5  | 5.4        | 1.9        | 1.9  | 3.3        | 0.9        | 2.9   | 5.3        | 1.4        |
| Luhanska   |  |            |            |  |            |            |   |            |            |  |            |            |  |            |            |   |            |            |
| Lviv'ska   | 5.1  | 6.8        | 3.5        | 3.2  | 4.9        | 1.9        | 4.9   | 7.6        | 2.9        | 4.0  | 6.0        | 2.2        | 2.5  | 4.2        | 1.2        | 3.8   | 6.7        | 1.9        |
| Mykolaiv'ska                                     | 3.5  | 5.2        | 2.1        | 2.0  | 3.4        | 1.0        | 3.1   | 5.3        | 1.7        | 2.4  | 3.6        | 1.5        | 1.4  | 2.4        | 0.8        | 2.2   | 3.5        | 1.3        |
| Odeska   | 3.7  | 4.7        | 2.8        | 2.2  | 3.3        | 1.4        | 3.5   | 5.1        | 2.4        | 2.1  | 3.2        | 1.1        | 1.2  | 2.2        | 0.5        | 2.0   | 3.5        | 0.9        |
| Poltav'ska                                       | 3.0  | 3.6        | 2.5        | 1.8  | 2.5        | 1.3        | 2.7   | 4.0        | 2.0        | 2.2  | 3.2        | 1.4        | 1.2  | 2.0        | 0.7        | 2.0   | 3.3        | 1.2        |
| Rivnenska  | 3.4  | 3.6        | 3.1        | 2.3  | 3.1        | 1.7        | 3.7   | 4.9        | 2.8        | 2.3  | 2.0        | 2.6        | 1.5  | 1.7        | 1.3        | 2.6   | 2.5        | 2.4        |
| Sumska   | 3.9  | 4.5        | 3.3        | 2.1  | 2.8        | 1.6        | 3.4   | 4.4        | 2.6        | 2.8  | 3.0        | 2.7        | 1.6  | 1.9        | 1.2        | 2.6   | 3.0        | 2.2        |
| Ternopil'ska                                     | 5.7  | 7.3        | 4.4        | 3.4  | 5.0        | 2.4        | 5.5   | 8.3        | 3.8        | 4.5  | 5.0        | 4.1        | 2.7  | 3.6        | 2.1        | 4.4   | 5.8        | 3.4        |
| Kharkiv'ska                                      | 6.2  | 7.5        | 5.1        | 3.3  | 4.9        | 2.3        | 5.5   | 8.3        | 3.8        | 4.6  | 5.6        | 3.8        | 2.4  | 3.6        | 1.6        | 4.0   | 5.9        | 2.7        |
| Kherson'ska                                      | 4.2  | 5.5        | 3.0        | 2.5  | 3.9        | 1.6        | 3.9   | 6.4        | 2.4        | 3.1  | 3.7        | 2.6        | 1.9  | 2.6        | 1.5        | 3.0   | 4.1        | 2.3        |
| Khmelnytska                                      | 3.7  | 4.7        | 2.9        | 1.9  | 2.9        | 1.3        | 3.4   | 5.1        | 2.3        | 2.9  | 4.2        | 1.9        | 1.7  | 2.8        | 1.0        | 2.6   | 4.3        | 1.5        |
| Cherkaska  | 4.4  | 5.5        | 3.6        | 2.3  | 3.3        | 1.5        | 3.5   | 4.9        | 2.5        | 3.5  | 4.1        | 3.0        | 1.7  | 2.3        | 1.2        | 2.8   | 4.0        | 2.1        |
| Chernivetska                                     | 3.4  | 4.9        | 2.1        | 2.4  | 4.1        | 1.0        | 3.2   | 5.4        | 1.6        | 2.7  | 4.0        | 1.5        | 1.8  | 3.2        | 0.7        | 2.6   | 4.6        | 1.2        |
| Chernigiv'ska                                    | 2.4  | 3.4        | 1.6        | 1.4  | 2.2        | 0.7        | 2.2   | 3.7        | 1.2        | 2.1  | 3.2        | 1.2        | 1.2  | 2.0        | 0.6        | 1.8   | 3.0        | 0.9        |
| Kyiv city  | 5.4  | 6.7        | 4.3        | 3.0  | 4.5        | 2.1        | 5.1   | 7.4        | 3.6        | 4.5  | 6.0        | 3.2        | 2.5  | 4.0        | 1.6        | 4.2   | 6.7        | 2.7        |
| Sevastopol city                                  |  |            |            |  |            |            |   |            |            |  |            |            |  |            |            |   |            |            |

| Table 3 -<br>Incidence and<br>mortality,<br>2017 | Number of new cancer<br>cases registered in 2017* |     |    | Crude incidence rate<br>per 100 000 of population |            |            | Number of deaths from<br>cancer registered in 2017* |    |    | Crude mortality rate<br>per 100 000 of population |            |            |
|--|---|-----|----|---|------------|------------|---|----|----|---|------------|------------|
|  | ♂   | ♀   | ♂  | ♂   | ♀          | ♂          | ♂   | ♀  | ♂  | ♂   | ♀          | ♂          |
| <b>Ukraine</b>                                   |   |     |    | <b>3.9</b>  | <b>5.0</b> | <b>2.9</b> |   |    |    | <b>3.1</b>  | <b>4.2</b> | <b>2.3</b> |
| AR Krym  |   |     |    |   |            |            |   |    |    |   |            |            |
| Vinnitska  | 50  | 31  | 19 | 3.2   | 4.2        | 2.2        | 47  | 31 | 16 | 3.0   | 4.2        | 1.9        |
| Volynska   | 19  | 8   | 11 | 1.8   | 1.6        | 2.0        | 15  | 5  | 10 | 1.4   | 1.0        | 1.8        |
| Dnipropetrovska                                  | 187   | 112 | 75 | 5.8   | 7.6        | 4.3        | 156   | 98 | 58 | 4.8   | 6.6        | 3.3        |
| Donetska   | 53  | 28  | 25 |   |            |            | 38  | 21 | 17 |   |            |            |
| Zhytomyrska                                      | 38  | 23  | 15 | 3.1   | 4.0        | 2.3        | 23  | 18 | 5  | 1.9   | 3.1        | 0.8        |
| Zakarpatska                                      | 25  | 18  | 7  | 2.0   | 3.0        | 1.1        | 26  | 17 | 9  | 2.1   | 2.8        | 1.4        |
| Zaporizka  | 76  | 46  | 30 | 4.4   | 5.8        | 3.2        | 59  | 38 | 21 | 3.4   | 4.8        | 2.2        |
| Ivano-Frankivska                                 | 24  | 16  | 8  | 1.7   | 2.5        | 1.1        | 24  | 13 | 11 | 1.7   | 2.0        | 1.5        |
| Kyivska  | 47  | 37  | 10 | 2.7   | 4.6        | 1.1        | 39  | 24 | 15 | 2.3   | 3.0        | 1.6        |
| Kirovogradska                                    | 50  | 31  | 19 | 5.2   | 7.0        | 3.7        | 47  | 34 | 13 | 4.9   | 7.7        | 2.5        |
| Luhanska   | 18  | 13  | 5  |   |            |            | 18  | 12 | 6  |   |            |            |
| Lvivska  | 93  | 59  | 34 | 3.7   | 5.0        | 2.6        | 63  | 41 | 22 | 2.5   | 3.4        | 1.7        |
| Mykolaivska                                      | 55  | 30  | 25 | 4.8   | 5.6        | 4.1        | 38  | 23 | 15 | 3.3   | 4.3        | 2.4        |
| Odeska   | 74  | 44  | 30 | 3.1   | 3.9        | 2.4        | 50  | 30 | 20 | 2.1   | 2.7        | 1.6        |
| Poltavska  | 61  | 36  | 25 | 4.3   | 5.5        | 3.3        | 51  | 35 | 16 | 3.6   | 5.4        | 2.1        |
| Rivnenska  | 30  | 23  | 7  | 2.6   | 4.2        | 1.2        | 31  | 20 | 11 | 2.7   | 3.6        | 1.8        |
| Sumska   | 32  | 15  | 17 | 2.9   | 3.0        | 2.9        | 15  | 8  | 7  | 1.4   | 1.6        | 1.2        |
| Ternopilska                                      | 45  | 19  | 26 | 4.3   | 3.9        | 4.6        | 40  | 20 | 20 | 3.8   | 4.1        | 3.6        |
| Kharkivska                                       | 179   | 105 | 74 | 6.7   | 8.4        | 5.1        | 136   | 83 | 53 | 5.1   | 6.7        | 3.7        |
| Khersonska                                       | 29  | 17  | 12 | 2.8   | 3.5        | 2.1        | 24  | 13 | 11 | 2.3   | 2.7        | 2.0        |
| Khmelnyska                                       | 49  | 33  | 16 | 3.8   | 5.6        | 2.3        | 39  | 25 | 14 | 3.0   | 4.2        | 2.0        |
| Cherkaska  | 39  | 18  | 21 | 3.2   | 3.2        | 3.2        | 30  | 18 | 12 | 2.4   | 3.2        | 1.8        |
| Chernivetska                                     | 29  | 21  | 8  | 3.2   | 4.9        | 1.7        | 28  | 19 | 9  | 3.1   | 4.5        | 1.9        |
| Chernigivska                                     | 27  | 16  | 11 | 2.6   | 3.4        | 2.0        | 27  | 16 | 11 | 2.6   | 3.4        | 2.0        |
| Kyiv city  | 140   | 80  | 60 | 4.9   | 6.0        | 3.9        | 122   | 65 | 57 | 4.2   | 4.9        | 3.7        |
| Sevastopol city                                  |   |     |    |   |            |            |   |    |    |   |            |            |

\* - number of new cases and deaths for whole Ukraine is omitted due to the impossibility of obtaining data from some regions

| Table 4 -<br>Rates,<br>2017 | Stage distribution of new<br>cases *, % |             |             |                   | Lived less<br>than 1 year<br>since<br>diagnosis in<br>2016, % | of which:<br>diagnosed<br>post-mortem | Received<br>anti-cancer<br>treatment,<br>% | Micro-<br>scopically<br>verified,<br>% | During the<br>pre-<br>ventive<br>exami-<br>nation, % | Patients per 100 000 of<br>population |            |            |
|-----------------------------|---|-------------|-------------|-------------------|---|---------------------------------------|--|--|--|---------------------------------------|------------|------------|
|                             | I-II                                    | III         | IV          | Not<br>determined |   |                                       |  |  |  | ♂                                     | ♀          | ♂          |
| <b>Ukraine</b>              | <b>10.0</b>                             | <b>32.8</b> | <b>28.4</b> | <b>26.4</b>       | <b>75.8</b>   |                                       | <b>19.2</b>                                | <b>47.2</b>                            | <b>2.3</b>   | <b>5.2</b>                            | <b>5.7</b> | <b>4.9</b> |
| AR Krym                     |   |             |             |                   |   |                                       |  |  |  |                                       |            |            |
| Vinnitska                   | 24.4                                    | 42.2        | 31.1        | 0.0               | 69.0  | 0                                     | 31.1                                       | 30.0                                   | 0.0  | 3.1                                   | 3.3        | 2.9        |
| Volynska                    | 11.8                                    | 41.2        | 41.2        | 5.9               | 69.2  | 2                                     | 11.8                                       | 36.8                                   | 0.0  | 4.0                                   | 3.3        | 4.6        |
| Dnipropetrovska             | 9.8                                     | 38.4        | 17.7        | 31.1              | 83.3  | 8                                     | 9.8  | 55.6                                   | 0.6  | 4.0                                   | 4.7        | 3.4        |
| Donetska                    | 13.0                                    | 52.2        | 17.4        | 15.2              |   |                                       | 13.0                                       | 32.1                                   | 4.3  |                                       |            |            |
| Zhytomyrska                 | 5.4                                     | 37.8        | 40.5        | 16.2              | 76.0  | 1                                     | 21.6                                       | 52.6                                   | 2.7  | 3.4                                   | 3.6        | 3.2        |
| Zakarpatska                 | 9.5                                     | 38.1        | 28.6        | 23.8              | 88.6  | 11                                    | 14.3                                       | 64.0                                   | 0.0  | 2.1                                   | 2.7        | 1.5        |
| Zaporizka                   | 15.2                                    | 43.9        | 34.8        | 6.1               | 81.0  | 10                                    | 13.6                                       | 34.2                                   | 0.0  | 5.8                                   | 7.2        | 4.6        |
| Ivano-Frankivska            | 9.5                                     | 33.3        | 42.9        | 0.0               | 80.8  | 3                                     | 38.1                                       | 70.8                                   | 0.0  | 1.7                                   | 1.8        | 1.5        |
| Kyivska                     | 17.1                                    | 34.1        | 48.8        | 0.0               | 66.0  | 3                                     | 24.4                                       | 53.2                                   | 7.3  | 5.3                                   | 5.4        | 5.3        |
| Kirovogradska               | 4.9                                     | 53.7        | 34.1        | 4.9               | 70.8  | 12                                    | 29.3                                       | 40.0                                   | 4.9  | 3.5                                   | 3.6        | 3.5        |
| Luhanska                    | 7.7                                     | 30.8        | 15.4        | 38.5              |   |                                       | 38.5                                       | 88.9                                   | 7.7  |                                       |            |            |
| Lvivska                     | 5.7                                     | 36.8        | 19.5        | 34.5              | 71.3  | 3                                     | 14.9                                       | 38.7                                   | 0.0  | 6.7                                   | 7.3        | 6.1        |
| Mykolaivska                 | 10.3                                    | 53.8        | 35.9        | 0.0               | 71.1  | 8                                     | 17.9                                       | 40.0                                   | 12.8   | 5.9                                   | 5.5        | 6.3        |
| Odeska                      | 7.6                                     | 19.7        | 40.9        | 31.8              | 58.0  | 8                                     | 15.2                                       | 37.8                                   | 0.0  | 9.4                                   | 9.9        | 8.9        |
| Poltavska                   | 12.1                                    | 20.7        | 56.9        | 3.4               | 65.0  | 2                                     | 17.2                                       | 42.6                                   | 8.6  | 3.9                                   | 4.1        | 3.7        |
| Rivnenska                   | 13.8                                    | 17.2        | 27.6        | 37.9              | 67.6  | 0                                     | 20.7                                       | 46.7                                   | 0.0  | 4.7                                   | 5.3        | 4.1        |
| Sumska                      | 18.8                                    | 9.4         | 28.1        | 43.8              | 54.1  | 0                                     | 18.8                                       | 21.9                                   | 9.4  | 6.7                                   | 6.5        | 6.9        |
| Ternopilska                 | 12.5                                    | 25.0        | 55.0        | 2.5               | 74.1  | 3                                     | 30.0                                       | 46.7                                   | 2.5  | 6.9                                   | 6.7        | 7.1        |
| Kharkivska                  | 9.0                                     | 25.5        | 18.6        | 44.8              | 82.2  | 13                                    | 21.4                                       | 54.7                                   | 0.7  | 7.8                                   | 7.8        | 7.7        |
| Khersonska                  | 19.0                                    | 38.1        | 38.1        | 0.0               | 86.0  | 5                                     | 38.1                                       | 55.2                                   | 9.5  | 3.0                                   | 3.9        | 2.3        |
| Khmelnyska                  | 10.9                                    | 65.2        | 21.7        | 0.0               | 81.3  | 0                                     | 15.2                                       | 24.5                                   | 0.0  | 5.0                                   | 6.1        | 4.1        |
| Cherkaska                   | 3.2                                     | 22.6        | 58.1        | 16.1              | 79.2  | 8                                     | 19.4                                       | 48.7                                   | 3.2  | 5.1                                   | 5.3        | 5.0        |
| Chernivetska                | 10.0                                    | 45.0        | 35.0        | 10.0              | 80.6  | 4                                     | 15.0                                       | 27.6                                   | 0.0  | 7.7                                   | 8.7        | 6.9        |
| Chernigivska                | 9.1                                     | 27.3        | 45.5        | 13.6              | 88.0  | 1                                     | 18.2                                       | 44.4                                   | 4.5  | 2.2                                   | 1.7        | 2.5        |
| Kyiv city                   | 1.9                                     | 7.4         | 0.0         | 89.8              | 78.4  | 23                                    | 23.1                                       | 65.7                                   | 0.0  | 6.2                                   | 7.5        | 5.1        |
| Sevastopol city             |   |             |             |                   |   |                                       |  |  |  |                                       |            |            |

\* - Ann-Arbour stage for lymphomas, TNM stage for other cancers