

Results of omnibus surveys with tobacco-related questions conducted in Ukraine in 2013-2020

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All these surveys were conducted by the Kiev International Institute of Sociology with a sample of 2000+ adult dwellers of Ukraine aged 18 years or older. Questions for determining the smoking status were based on the GATS questionnaire.

Prevalence of smoking-related behaviors

While there were no statistically significant changes in the prevalence of daily and current smoking among either men or women between subsequent surveys (see Table 1), the change of proportion of daily smokers among men between 2013 and 2020 is significant.

The percentage of former smokers among men increased between 2017 and 2020, and, among women, it became significantly higher than in 2013 and 2014. There was an overall upward trend among women in the percentage that former smokers constitute among all those who have ever smoked daily from 13.8% in 2013 to 15.6% in 2014, to 18.7% in 2015, to 19.3% in 2017 and to 26.6% in 2019. The corresponding percentage among men was more stable in the range of 19-23%.

Although the percentage of daily and current smokers among women slightly decreased in 2013-2015, after 2015, it is on the rise again; some potential explanations of this trend are to follow in the tables below.

Table 1. Proportions of daily, current and former smokers among Ukrainian men and women, results of 2013, 2014, 2015, 2017, 2019, and 2020 omnibus surveys: percentages and 95% confidence intervals

| | Year | Daily smokers | Current smokers | Ex-daily smokers |
|-------|------|------------------|------------------|------------------|
| Men | | | | |
| | 2013 | 44.6 (41.4-47.9) | 48.0 (44.8-51.3) | 12.7 (10.5-14.8) |
| | 2014 | 42.0 (38.8-45.2) | 45.2 (41.9-48.4) | 10.7 (8.7-12.7) |
| | 2015 | 42.4 (39.2-45.6) | 45.0 (41.8-48.2) | 11.8 (9.7-13.9) |
| | 2017 | 41.2 (38.0-44.4) | 44.9 (41.7-48.1) | 10.6 (8.6-12.6) |
| | 2019 | 42.2 (39.0-45.4) | 45.0 (41.8-48.3) | 13.4 (11.2-15.6) |
| | 2020 | 38.0 (34.9-41.1) | 42.3 (39.1-45.4) | 14.9 (12.6-17.2) |
| | | | | |
| Women | | | | |
| | 2013 | 11.2 (9.3-13.0) | 12.8 (10.8-14.7) | 1.8 (1.0-2.6) |
| | 2014 | 9.3 (7.6-11.0) | 10.9 (9.1-12.7) | 1.7 (0.9-2.5) |
| | 2015 | 9.0 (7.3-10.7) | 10.6 (8.7-12.4) | 2.1 (1.2-2.9) |
| | 2017 | 9.3 (7.6-11.0) | 11.2 (9.4-13.1) | 2.5 (1.6-3.4) |
| | 2019 | 9.4 (7.7-11.2) | 10.7 (8.9-12.5) | 3.7 (2.6-4.8) |
| | 2020 | 10.8 (9.0-12.6) | 13.7 (11.7-15.7) | 3.8 (2.7-4.9) |
| | | | | |
| All | | | | |
| | 2013 | 26.2 (24.3-28.1) | 28.6 (26.7-30.6) | 6.7 (5.6-7.8) |
| | 2014 | 24.0 (22.1-25.9) | 26.3 (24.4-28.2) | 6.2 (5.2-7.3) |
| | 2015 | 24.1 (22.2-25.9) | 26.1 (24.2-28.0) | 6.5 (5.4-7.5) |
| | 2017 | 23.7 (21.9-25.6) | 26.4 (24.5-28.3) | 6.1 (5.1-7.2) |
| | 2019 | 24.2 (22.4-26.1) | 26.2 (24.3-28.1) | 8.1 (6.9-9.3) |
| | 2020 | 23.1 (21.3-24.9) | 26.6 (24.7-28.5) | 8.8 (7.6-10.0) |



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To consider whether greater changes in smoking prevalence occurred in particular age groups, we conducted the stratified analysis in groups of people aged 30 or younger and those who are older than 30 (Table 2).

Table 2. Proportions of daily smokers and former daily smokers in 2013-2020, by gender and age group: percentages and 95% confidence intervals

| Gender | Gender Age Yea | | N | Daily smokers | Ex-daily smokers |
|-----------|----------------|------|------|-------------------|------------------|
| Men | | | | | |
| | 18-30 | 2013 | 252 | 53.6 (47.4-59.7) | 6.3 (3.3-9.4) |
| | | 2017 | 238 | 40.3 (34.1-46.6)* | 3.8 (1.4-6.2) |
| | | 2019 | 215 | 42.8 (36.2-49.4) | 5.1 (2.2-8.1) |
| | | 2020 | 210 | 39.5 (32.9-46.1) | 7.6 (4.0-11.2) |
| | >30 | 2013 | 662 | 41.2 (37.5-45.0) | 15.1 (12.4-17.8) |
| | | 2017 | 679 | 41.4 (37.7-45.1) | 13.0 (10.4-15.5) |
| | | 2019 | 701 | 42.1 (38.4-45.7) | 16.0 (13.3-18.7) |
| | | 2020 | 713 | 37.6 (34.0-41.1) | 17.3 (14.5-20.0) |
| Women | | | | | |
| | 18-30 | 2013 | 245 | 20.0 (15.0-25.0) | 2.9 (0.8-4.9) |
| | | 2017 | 234 | 12.8 (8.5-17.1) | 4.3 (1.7-6.9) |
| | | 2019 | 201 | 11.4 (7.0-15.8) | 6.5 (3.1-9.9) |
| | | 2020 | 191 | 20.4 (14.7-26.1) | 2.6 (0.4-4.9) |
| | >30 | 2013 | 872 | 8.7 (6.8-10.6) | 1.5 (0.7-2.3) |
| | | 2017 | 884 | 8.5 (6.6-10.3) | 2.1 (1.2-3.1) |
| | | 2019 | 910 | 8.9 (7.1-10.8) | 3.1 (2.0-4.2) |
| | | 2020 | 923 | 8.7 (6.9-10.5) | 4.0 (2.7-5.3) |
| All | | | | | |
| | 18-30 | 2013 | 497 | 37.0 (32.8-41.3) | 4.6 (2.8 6.5) |
| | | 2017 | 472 | 26.7 (22.7-30.7)* | 4.0 (2.3-5.8) |
| | | 2019 | 416 | 27.6 (23.3-31.9) | 5.8 (3.5-8.0) |
| | | 2020 | 401 | 30.4 (25.9-34.9) | 5.2 (3.1-7.4) |
| | >30 | 2013 | 1534 | 22.8 (20.7-24.8) | 7.4 (6.1-8.7) |
| | | 2017 | 1563 | 22.8 (20.7-24.9) | 6.8 (5.6-8.1) |
| | | 2019 | 1611 | 23.3 (21.3-25.4) | 8.7 (7.3-10.1) |
| | | 2020 | 1636 | 21.3 (19.3-23.3) | 9.8 (8.3-11.2) |
| * .1 1:CC | | | | | ,050/ 61 1 1 |

^{* -} the difference with the previous measurement is statistically significant at 95% confidence level



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Specific tobacco or nicotine delivery products

Exploratory questions to estimate the prevalence of smoking of various tobacco and nicotine delivery products were asked starting from 2017 (see Table 3).

Table 3. Percentage of current smokers who reported using various tobacco and nicotine delivery products within the last 30 days, by year, 2017, 2019, and 2020

| Tobacco and nicotine delivery products | Year | N | % (95%CI) who used within the last 30 days |
|--|------|-----|--|
| Flavored cigarettes | 2017 | 538 | 8.7 (6.4-11.1) |
| | 2019 | 525 | 18.7 (15.3-22.0) * <i>₹</i> |
| | 2020 | 543 | 26.5 (22.8-30.2) * <i>P</i> |
| e-cigarettes | 2017 | 538 | 2.0 (0.8-3.2) |
| | 2019 | 525 | 4.4 (2.6-6.1) |
| | 2020 | 544 | 8.5 (6.1-10.8) * <i>↑</i> |
| Water-pipe | 2017 | 537 | 1.1 (0.2-2.0) |
| | 2019 | 527 | 7.0 (4.8-9.2) * <i>P</i> |
| | 2020 | 543 | 5.9 (3.9-7.9) |
| Heat-not-burn products | 2019 | 524 | 1.9 (0.7-3.1) |
| _ | 2020 | 543 | 7.4 (5.2-9.6) */ |
| N - number of respondents | • | • | |

^{*/-} there is a significant increase compared to the previous survey



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Flavored cigarettes

Among all current smokers, proportion of those who reported using flavored cigarettes within the last 30 days significantly increased from 8.7% in 2017 to 18.7% in 2019 and 26.5% in 2020 (see Table 3).

Among both men and women current smokers, the proportion of those who regularly smoke flavored cigarettes significantly increased, and it more than doubled between 2017 and 2020 (see Table 4).

As regards men-smokers, the increase in the proportion of those who smoke flavored cigarettes was greater between 2017 and 2019. About one in three current smokers below 30 years smoke flavored cigarettes and one in six current smokers older than 30 years.

Among women-smokers, although the initial percentage of those who smoked flavored cigarettes was higher than among men, the increase was more sizable between 2019 and 2020. The increase in this proportion was significant among all women-smokers and among women older than 30 years.

Percentages of non-smokers who reported smoking flavored cigarettes (probably by mistake) did not show any significant changes.

Table 4. Percentage of current smokers and non-smokers who reported using flavored cigarettes within the last 30 days, by gender, age, and year, 2017, 2019 and 2020

| Smoking status | Gender | Age | Year | N | % (95%CI) |
|-----------------|--------|-------|------|-----|-----------------------------|
| Current smokers | Men | All | 2017 | 412 | 6.8 (4.4-9.2) |
| | | | 2019 | 413 | 17.9 (14.2-21.6) * <i>7</i> |
| | | | 2020 | 390 | 20.3 (16.3-24.2) |
| | | 18-30 | 2017 | 106 | 11.3 (5.3-17.4) |
| | | | 2019 | 97 | 38.1 (28.5-47.8) * 🗡 |
| | | | 2020 | 99 | 28.3 (19.4-37.2) |
| | | >30 | 2017 | 306 | 5.2 (2.7-7.7) |
| | | | 2019 | 316 | 11.7 (8.2-15.3) * <i>7</i> |
| | | | 2020 | 291 | 17.5 (13.2-21.9) |
| | Women | All | 2017 | 124 | 14.5 (8.3-20.7) |
| | | | 2019 | 120 | 20.8 (13.6-28.1) |
| | | | 2020 | 154 | 42.9 (35.0-50.7) * <i>7</i> |
| | | 18-30 | 2017 | 34 | 20.6 (7.0-34.2) |
| | | | 2019 | 30 | 33.3 (16.5-50.2) |
| | | | 2020 | 52 | 55.8 (42.3-69.3) |
| | | >30 | 2017 | 90 | 12.2 (5.5-19.0) |
| | | | 2019 | 90 | 16.7 (9.0-24.4) |
| | | | 2020 | 102 | 36.3 (26.9-45.6) * <i>7</i> |
| Current non- | Men | | 2019 | 503 | 3.0 (1.5-4.5) |
| smokers | | | | | |
| | | | 2020 | 533 | 3.9 (2.3-5.6) |
| | Women | | 2019 | 994 | 1.2 (0.5-1.9) |
| | | | 2020 | 961 | 0.7 (0.2-1.3) |

N - number of respondents

^{*/-} there is a significant increase compared to the previous survey



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E-cigarettes

Among all current smokers, proportion of those who reported smoking e-cigarettes at least once a month constituted 2% in 2017, 4% in 2019 and more than 8% in 2020 (see Table 3).

The percentage of both men and women current smokers who smoke e-cigarettes, significantly increased between 2017 and 2020 (Table 5). While overall proportion of e-cigarette users among current smokers is higher among women than men and among younger smokers than older ones, the most significant increase in this proportion was seen among men-smokers older than 30 years.

Table 5. Percentage of current smokers and non-smokers who reported using e-cigarettes and vapes within the last 30 days, by gender, age, and year, 2017, 2019 and 2020

| Smoking status | Gender | Age | Year | N | % (95%CI) |
|---------------------|--------|-------|------|-----|--------------------|
| Current smokers | Men | All | 2017 | 413 | 1.7 (0.4-2.9) |
| | | | 2019 | 412 | 3.9 (2.0-5.7) |
| | | | 2020 | 390 | 6.4 (4.0-8.8) *\ |
| | | 18-30 | 2017 | 107 | 3.7 (0.1-7.3) |
| | | | 2019 | 96 | 12.5 (5.9-19.1) |
| | | | 2020 | 98 | 11.2 (5.0-17.5) |
| | | >30 | 2017 | 306 | 1.0 (0.1-2.1) |
| | | | 2019 | 316 | 1.3 (0.0-2.5) |
| | | | 2020 | 292 | 4.8 (2.3-7.2) *5 |
| | Women | All | 2017 | 126 | 2.4 (0.0-5.0) |
| | | | 2019 | 120 | 5.8 (1.6-10.0) |
| | | | 2020 | 152 | 13.2 (7.8-18.5) ** |
| | | 18-30 | 2017 | 35 | 2.9 (0.0-8.4) |
| | | | 2019 | 30 | 13.3 (1.2-25.5) |
| | | | 2020 | 51 | 17.6 (7.2-28.1) |
| | | >30 | 2017 | 91 | 2.2 (0.0-5.2) |
| | | | 2019 | 90 | 3.3 (0.0-7.0) |
| | | | 2020 | 101 | 10.9 (4.8-17.0) |
| Current non-smokers | Men | | 2019 | 505 | 0.2 (0.0-0.6) |
| | | | 2020 | 532 | 1.1 (0.2-2.0) |
| | Women | | 2019 | 994 | 0.4 (0.0-0.8) |
| | | | 2020 | 960 | 0.3 (0.0-0.7) |

N - number of respondents

^{*\(\}sigma\) - there is a significant increase compared to the first listed survey



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Water-pipe

The proportion of regular water-pipe users among current smokers increased from 1% in 2017 to 7% in 2019 (see Table 3). This increase was similar among men and women and predominantly expressed among those younger than 30 years (see Table 6). No significant change was seen between 2019 and 2020.

Table 6. Percentage of current smokers and non-smokers who reported using water-pipes within the last 30 days, by gender, age, and year, 2017, 2019 and 2020

| Smoking status | Gender | Age | Year | N | % (95%CI) |
|---------------------|--------|-------|------|-----|-----------------------------|
| Current smokers | Men | All | 2017 | 412 | 1.2 (0.2-2.3) |
| | | | 2019 | 412 | 6.8 (4.4-9.2) * <i>7</i> |
| | | | 2020 | 391 | 5.4 (3.1-7.6) |
| | | 18-30 | 2017 | 106 | 2.8 (0.3-6.0) |
| | | | 2019 | 96 | 19.8 (11.8-27.8) * <i>7</i> |
| | | | 2020 | 99 | 16.2 (8.9-23.4) |
| | | >30 | 2017 | 306 | 0.7 (0.0-1.6) |
| | | | 2019 | 316 | 2.8 (1.0-4.7) |
| | | | 2020 | 292 | 1.7 (0.2-3.2) |
| | Women | All | 2017 | 124 | 0.8 (0.0-2.4) |
| | | | 2019 | 119 | 7.6 (2.8-12.3) * <i>7</i> |
| | | | 2020 | 153 | 7.2 (3.1-11.3) |
| | | 18-30 | 2017 | 34 | 2.9 (0.0-8.6) |
| | | | 2019 | 29 | 31.0 (14.2-47.9) */ |
| | | | 2020 | 51 | 11.8 (2.9-20.6) |
| | | >30 | 2017 | 90 | 0.0 (0.0-0.0) |
| | | | 2019 | 90 | 0.0 (0.0-0.0) |
| | | | 2020 | 102 | 4.9 (0.7-9.1) |
| Current non-smokers | Men | | 2019 | 504 | 1.6 (0.5-2.7) |
| | | | 2020 | 532 | 1.5 (0.5-2.5) |
| | Women | | 2019 | 995 | 1.5 (0.8-2.3) |
| | | | 2020 | 962 | 0.9 (0.3-1.5) |

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Heat-not-burn products

The proportion of users of heat-not-burn products among current smokers increased significantly compared to the previous survey in 2019 from below 2% to over 7% in 2020 (see Table 3). However, due to small samples, this change was statistically significant only among men-smokers and those of them who are older than 30 years (see Table 7).

Table 7. Percentage of current smokers and non-smokers who reported using heat-not-burn products within the last 30 days, by gender, age, and year, 2019 and 2020

| Smoking status | Gender | Age | Year | N | % (95%CI) |
|---------------------|--------|-------|------|-----|--------------------------|
| Current smokers | Men | All | 2019 | 412 | 1.5 (0.3-2.6) |
| | | | 2020 | 391 | 6.1 (3.8-8.5) * <i>7</i> |
| | | 18-30 | 2019 | 96 | 4.2 (0.2-8.2) |
| | | | 2020 | 99 | 13.1 (6.5-19.8) |
| | | >30 | 2019 | 316 | 0.6 (0.0-1.5) |
| | | | 2020 | 292 | 3.8 (1.6-6.0) *↗ |
| | Women | All | 2019 | 119 | 3.4 (0.1-6.6) |
| | | | 2020 | 153 | 10.5 (5.6-15.3) |
| | | 18-30 | 2019 | 29 | 3.4 (0.0-10.1) |
| | | | 2020 | 51 | 13.7 (4.3-23.2) |
| | | >30 | 2019 | 90 | 3.3 (0.0-7.0) |
| | | | 2020 | 102 | 8.8 (3.3-14.3) |
| Current non-smokers | Men | | 2019 | 503 | 0.2 (0.0-0.6) |
| | | | 2020 | 532 | 1.3 (0.3-2.3) |
| | Women | | 2019 | 994 | 0.3 (0.0-0.6) |
| | | | 2020 | 963 | 0.6 (0.1-1.1) |

N - number of respondents

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Attitude towards tobacco control policies

Respondents were asked about their attitude towards some tobacco control policies:

- (1) the ban of the point-of-sale advertisement (in 2017-2020 surveys);
- (2) making more public places smoke-free (in 2019-2020) and
- (3) ban of e-cigarette sales to minors (in 2019-2020).

Questions on several more policies were added in 2020 (Table 9).

Regarding most policies, a majority of respondents 'strongly approved' all suggested measures. The level of support was higher among non-smokers and women but was similar among younger and older respondents.

With repeated questions (Point-of-sale tobacco advertising ban), the level of support increased significantly over time.

As regards the newly introduced questions, the issue of eliminating smoking rooms at workplaces received the lowest level of support.

Table 8. Percentages of respondents who expressed various attitudes to tobacco control policies, 2017-2020

| Policy | Year | N | Strongly approve | Approve | Disapprove | Strongly disapprove | No answer |
|------------------------|------|------|------------------|---------|------------|---------------------|--------------|
| | | | | | | | |
| Point-of-sale tobacco | | | | | | | |
| advertising ban | 2017 | 2026 | 46.3 | 21.8 | 11.0 | 8.1 | 12.8 |
| | 2019 | 2028 | 67.9 | 15.6 | 4.8 | 4.8 | 6.9 |
| | 2020 | 2038 | 78.3 | 9.0 | 4.0 | 4.7 | 3.9 |
| Making more public | | | | | | | |
| places smoke-free | 2019 | 2031 | 68.0 | 18.3 | 4.6 | 3.7 | 5.5 |
| | 2020 | 2038 | 77.9 | 12.5 | 3.3 | 2.9 | 3.5 |
| Ban of e-cigarette | | | | | | | |
| sales to minors | 2019 | 2033 | 76.3 | 12.5 | 2.2 | 2.6 | 6.5 |
| | 2020 | 2038 | 84.7 | 6.8 | 2.2 | 2.1 | 4.2 |
| Ban of heat-not-burn | | | | | | | |
| products use in public | | | | | | | |
| places | 2020 | 2038 | 80.7 | 9.4 | 2.6 | 2.5 | 4.9 |
| Tax increases on | | | | | | | |
| tobacco, e-cigarettes, | | | | | | | |
| heat-not-burn to | | | | | | | |
| diminish product use | 2020 | 2038 | 56.0 | 10.6 | 10.0 | 17.3 | 6.1 |
| Ban of designated | | | | | | | |
| smoking rooms in | | | | | | | |
| workplaces | 2020 | 2038 | 33.6 | 8.8 | 14.7 | 34.0 | 9.0 |
| Increase of minimal | | | | | | | |
| age for tobacco sales | | | | | | | |
| to 21 years | 2020 | 2038 | 76.2 | 10.9 | 3.9 | 5.8 | 3.2 |
| N - number of responde | nts | | • | • | • | | • |



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Plain packaging attitudes

A new block of questions was devoted to the expectations regarding the introduction of plain packaging.

- 1. The statement which was endorsed by the largest proportion of respondents was that 'Plain packs will be less attractive for kids and young people'. It was supported by 42% of respondents; 44% of women vs. 39% of men.
- 2. 'Smokers will smoke fewer cigarettes per day' 12.6% of respondents agreed altogether, women were more supportive than men (14.6% vs. 10.1%) and non-smokers more supportive than current smokers and especially ex-smokers (14.6% vs. 10.7% vs. 7.4%).
- 3. 'Smokers will smoke less in public places' (7.6%). This was considered as more likely by people younger than 30 years (11.5%) compared to older people (6.7%).
- 4. 'Smokers will more likely quit smoking' 9.8% of respondents agreed.
- 5. 'Introduction of plain packaging is an effective public health policy' 12.4% of respondents agreed. This was more supported by women than men (14.1% vs. 10.4%) and non-smokers vs. smokers (14.1% vs. 9.6%). No support to any of the above-mentioned statements was expressed by 31.3% respondents (34.2% of men vs. 28.9% of women) and more likely by smokers (38.5%).

Conclusions

- 1. Percentage of former smokers gradually increases among both men and women in Ukraine.
- 2. Percentage of daily smokers among men is significantly lower in 2020 compared to 2013.
- 3. The decline in smoking prevalence among women which was seen in earlier years is overturned. The likely cause of this unfavorable trend is related to the introduction of various new tobacco and nicotine delivery products which became attractive for substantial proportions of women-smokers.
- 4. Percentage of those who use flavored cigarettes, e-cigarettes, heat-not-burn products or water-pipe significantly increased among both men and women current smokers compared to earlier surveys.
- 5. Tobacco control policies which are longer on public health agenda get stronger support from the survey participants: the majority expressed 'strong approval' of several suggested policies: (1) the ban of the point-of-sale advertisement; (2) making more public places smoke-free and (3) ban of ecigarette sales to minors. The support increased since the previous survey. The support is also high for the (1) Ban of heat-not-burn products use in public places, (2) Tax increases on tobacco, ecigarettes, and heat-not-burn products, (3) Increase of minimal age for tobacco sales to 21 years. However, only a minority supports the ban of designated smoking rooms at workplaces.

The report was drafted by Tatiana I Andreeva.

All questions and comments can be sent to tatianandreeva@gmail.com

In the case of using the information specified in this material, it is mandatory to indicate the NGO "Life" as a source of information.

У разі використання інформації зазначеної у цьому матеріалі, обов'язковим ϵ зазначення ГО «Життя», як джерело інформації.