

1. Tobacco Products Use Variables for PATH Adult Data (Wave 2)

This dictionary includes variables of cigarette, e-cigarettes (e-products), traditional cigars, pipes, hookahs, filtered cigars, cigarillos and smokeless tobacco product use that can be used in multiproduct analysis; for example: transition analysis and LCA/LTA analysis.

Note about missing values for all indicators: In PATH, many of the questions depend on the ability to classify individuals by their tobacco product use status. Sometimes we are unable to make this classification due to the skip pattern of the instrument for one or more component variables, or because a “refused”, “I don’t know” or “improbable” response was provided or because the individual requested their data to be removed; therefore these cases were excluded from the calculation of the indicators below.

1.1. Cigarette use variables

UM_W2_A_100cigs: Adult established cigarette smoker

Description: Adults who have smoked at least 100 or more cigarettes (5 packs or more) in their lifetimes.

Numerator: Number of respondents who have smoked ≥ 100 cigarettes in their lifetimes

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	13,444	47.40
1 = Yes	14,850	52.36
Missing	68	0.24
Total	28,362	100.00

This variable has 28,294 valid cases out of 28,362 total cases.

Missing values: See note about missing values for all indicators.

UM_W2_A_cigs_everysome_ESTD: Adult established cigarette smoker - every day or some days

Description: Adult respondents who have smoked at least 100 cigarettes in their lifetimes, and currently smoke every day or some days.

Numerator: Number of established cigarette smokers who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	18,629	65.68
1 = Yes	9,694	34.18
Missing	39	0.14
Total	28,362	100.00

This variable has 28,323 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_cigs_30day: In the past 30 days, number of days smoked cigarettes

Description: Number of days a respondent smoked cigarettes in the past 30 days.

Numerator: Respondents who have smoked cigarettes in the past 30 days

Denominator: Total number of respondents¹

- Mean: 10.43
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 13.83
- Never smoked or did not smoke in the past 30 days: 17,826 (62.85%)
- Missing: 31 (0.11%)

This variable has 28,331 valid cases out of 28,362 total cases.

UM_W2_A_cigs1_past30: Adult smoker - smoked at least 1 day in the past 30 days

Description: Respondents who smoked cigarettes at least 1 day in the past 30 days.

Numerator: Number of respondents who smoked cigarettes at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	17,826	62.85
1 = Yes	10,505	37.04
Missing	31	0.11
Total	28,362	100.00

This variable has 28,331 valid cases out of 28,362 total cases.

UM_W2_A_cigs1_past30_ESTD: Adult established smoker - smoked at least 1 day in the past 30 days

Description: Established smokers (smoked ≥ 100 cigarettes in their lifetimes) who smoked cigarettes at least 1 day in the past 30 days.

Numerator: Number of established smokers who smoked cigarettes at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	18,692	65.91
1 = Yes	9,592	33.82
Missing	78	0.28
Total	28,362	100.00

¹Those responses that are “not valid” are described for each indicator under “missing values”

This variable has 28,248 valid cases out of 28,362 total cases.

UM_W2_A_cigs10_past30: Adult smoker - smoked at least 10 days in the past 30 days

Description: Respondents who smoked cigarettes at least 10 days in the past 30 days.

Numerator: Number of respondents who smoked cigarettes at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	19,170	67.59
1 = Yes	9,161	32.30
Missing	31	0.11
Total	28,362	100.00

This variable has 28,331 valid cases out of 28,362 total cases.

UM_W2_A_cigs10_past30_ESTD: Adult established smoker - smoked at least 10 days in the past 30 days

Description: Established smokers (smoked ≥ 100 cigarettes in their lifetimes) who smoked cigarettes at least 10 days in the past 30 days.

Numerator: Number of established smokers who smoked cigarettes at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	19,574	69.01
1 = Yes	8,710	30.71
Missing	78	0.28
Total	28,362	100.00

This variable has 28,284 valid cases out of 28,362 total cases.

UM_W2_A_cigs25_past30: Adult smoker - smoked at least 25 days in the past 30 days

Description: Respondents who smoked cigarettes at least 25 days in the past 30 days.

Numerator: Number of respondents who smoked cigarettes at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	20,185	71.17
1 = Yes	8,146	28.72
Missing	31	0.11
Total	28,362	100.00

This variable has 28,331 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_cigs25_past30_ESTD: Adult established smoker - smoked at least 25 days in the past 30 days

Description: Established smokers (smoked ≥ 100 cigarettes in their lifetimes) who smoked cigarettes at least 25 days in the past 30 days.

Numerator: Number of established smokers who smoked cigarettes at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	20,462	72.15
1 = Yes	7,822	27.58
Missing	78	0.28
Total	28,362	100.00

This variable has 28,284 valid cases out of 28,362 total cases.

UM_W2_A_cigs_perday: In past 30 days, average number of cigarettes smoked per day on days smoked

Description: Number of cigarettes a respondent usually smokes each day.

Numerator: Number of cigarettes smoked per day

Denominator: Total number of respondents¹

- Mean: 5.05
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 960
- Standard deviation: 16.92
- Never smoked or did not smoke in the past 30 days: 17,177 (60.56%)
- Missing: 213 (0.75%)

This variable has 28,149 valid cases out of 28,362 total cases.

UM_W2_A_cigs_perday_cat: In past 30 days, average number of cigarettes smoked per day on days smoked – categorical variable

Description: Number of cigarettes a respondent usually smokes each day.

Numerator: Number of cigarettes smoked per day

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
-------	----------------------	---

¹Those responses that are “not valid” are described for each indicator under “missing values”

0 = None	17,177	60.56
1 = Less than 20	8,007	28.23
2 = Twenty or more	2,975	10.49
Missing	203	0.72
Total	28,362	100.00

This variable has 28,159 valid cases out of 28,362 total cases.

UM_W2_A_cig_Menthol: Regular / last brand of cigarettes smoked flavored to taste like menthol or mint

Description: Indicator for respondents whose regular / last brand of manufactured cigarettes or roll-your-own cigarette tobacco was flavored to taste like menthol or mint.

Numerator: Number of current and former established smokers whose regular / last brand of manufactured cigarettes or roll-your-own cigarette tobacco was flavored to taste like menthol or mint

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
1 = Yes	4,057	14.30
Missing	24,305	85.70
Total	28,362	100

This variable has 4,057 valid cases out of 28,362 total cases.

1.2. E-cigarette use variables

Note about missing values for all indicators: In PATH, many of the questions depend on the ability to classify individuals by their tobacco product use status. Sometimes we are unable to make this classification due to the skip pattern of the instrument for one or more component variables, or because a “refused”, “I don’t know” or “improbable” response was provided or because the individual requested their data to be removed; therefore these cases were excluded from the calculation of the indicators below.

UM_W2_A_ecigs_reg: Adult regular e-cigarette user

Description: Respondents who have used e-cigarettes fairly regularly.

Numerator: Number of respondents who have used e-cigarettes fairly regularly

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	25,110	88.39
1 = Yes	3,192	11.25
Missing	60	0.21
Total	28,362	100.00

This variable has 28,302 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

Missing values: See note about missing values for all indicators.

UM_W2_A_ecigs_everysome: Adult e-cigarette user - every day or some days

Description: Current user of e-cigarettes (used every day or some days) among all ever users.

Numerator: Number of e-cigarette users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	25,169	88.74
1 = Yes	3,074	10.84
Missing	119	0.42
Total	28,362	100.00

This variable has 28,243 valid cases out of 28,362 total cases.

UM_W2_A_ecigs_everysome_ESTD: Adult regular e-cigarette user - every day or some days

Description: Current user of e-cigarettes (used every day or some days) among all regular users.

Numerator: Number of regular e-cigarette users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,498	93.43
1 = Yes	1,749	6.17
Missing	115	0.41
Total	28,362	100.00

This variable has 28,247 valid cases out of 28,362 total cases.

UM_W2_A_eprod_everysome: Adult e-product user - every day or some days

Description: Current user of e-products (used every day or some days) among all ever users.

Numerator: Number of e-product users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	24,581	88.67
1 = Yes	3,648	12.86
Missing	133	0.47
Total	28,362	100.00

This variable has 28,499 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_eprod_everysome_ESTD: Adult regular e-product user - every day or some days

Description: Current user of e-products (used every day or some days) among all regular users.

Numerator: Number of regular e-product users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,332	92.84
1 = Yes	1,906	6.72
Missing	124	0.44
Total	28,362	100.00

This variable has 28,238 valid cases out of 28,362 total cases.

UM_W2_A_ecigs_30day: In the past 30 days, number of days used e-cigarettes

Description: Number of days a respondent used e-cigarettes in the past 30 days.

Numerator: Respondents who have used e-cigarettes in the past 30 days

Denominator: Total number of respondents¹

- Mean: 1.29
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 5.54
- Never used or did not use in the past 30 days: 25,815 (91.02%)
- Missing: 83 (0.29%)

This variable has 28,279 valid cases out of 28,362 total cases.

UM_W2_A_ecigs1_past30: Adult e-cigarette user - used at least 1 day in the past 30 days

Description: Respondents who used e-cigarettes at least 1 day in the past 30 days.

Numerator: Number of respondents who used e-cigarettes at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	25,815	91.02
1 = Yes	2,464	8.69
Missing	83	0.29
Total	28,362	100.00

¹Those responses that are “not valid” are described for each indicator under “missing values”

This variable has 28,279 valid cases out of 28,362 total cases.

UM_W2_A_ecigs10_past30: Adult e-cigarette user - used at least 10 days in the past 30 days

Description: Respondents who used e-cigarettes at least 10 days in the past 30 days.

Numerator: Number of respondents who used e-cigarettes at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,993	95.17
1 = Yes	1,286	4.53
Missing	83	0.29
Total	28,362	100.00

This variable has 28,279 valid cases out of 28,362 total cases.

UM_W2_A_ecigs25_past30: Adult e-cigarette user - used at least 25 days in the past 30 days

Description: Respondents who used e-cigarettes at least 25 days in the past 30 days.

Numerator: Number of respondents who used e-cigarettes at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,363	96.48
1 = Yes	916	3.23
Missing	83	0.29
Total	28,362	100.00

This variable has 28,279 valid cases out of 28,362 total cases.

1.3. Other combustible tobacco products use variables

UM_W2_A_cigar_everysome: Adult traditional cigar user – every day or some days

Description: Current user of traditional cigars (smoked every day or some days) among all ever users.

Numerator: Number of traditional cigar users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,774	94.40
1 = Yes	1,578	5.56
Missing	10	0.04
Total	28,362	100.00

This variable has 28,352 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

Missing values: See note about missing values for all indicators

UM_W2_A_cigar_everysome_ESTD: Adult regular traditional cigar user – every day or some days

Description: Current user of traditional cigars (smoked every day or some days) among all regular users.

Numerator: Number of regular traditional cigar users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,756	97.86
1 = Yes	599	2.11
Missing	7	0.02
Total	28,362	100.00

This variable has 28,355 valid cases out of 28,362 total cases.

UM_W2_A_cigar_30day: In the past 30 days, number of days smoked traditional cigars

Description: Number of days a respondent smoked traditional cigars in the past 30 days.

Numerator: Respondents who have smoked traditional cigars in the past 30 days

- Mean: 0.20
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 1.97
- Never smoked or did not smoke in the past 30 days: 27,409 (96.64%)
- Missing: 8 (0.03%)

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_cigar1_past30: Adult traditional cigar user - smoked at least 1 day in the past 30 days

Description: Respondents who have smoked traditional cigars at least 1 day in the past 30 days.

Numerator: Number of respondents who have smoked traditional cigars at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,409	96.64
1 = Yes	945	3.33
Missing	8	0.03
Total	28,362	100.00

This variable has 28,354 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_cigar10_past30: Adult traditional cigar user - smoked at least 10 days in the past 30 days

Description: Respondents who have smoked traditional cigars at least 10 days in the past 30 days.

Numerator: Number of respondents who have smoked traditional cigars at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,187	99.38
1 = Yes	167	0.59
Missing	8	0.03
Total	28,362	100.00

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_cigar25_past30: Adult traditional cigar user - smoked at least 25 days in the past 30 days

Description: Respondents who have smoked traditional cigars at least 25 days in the past 30 days.

Numerator: Number of respondents who have smoked traditional cigars at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,252	99.61
1 = Yes	102	0.36
Missing	8	0.03
Total	28,362	100.00

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_cigarillo_everysome: Adult cigarillo user – every day or some days

Description: Current user of cigarillos (smoked every day or some days) among all ever users.

Numerator: Number of cigarillo users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,379	93.01
1 = Yes	1,493	5.26
Missing	490	1.73
Total	28,362	100.00

This variable has 27,872 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_cigarillo_everysome_ESTD: Adult regular cigarillo user – every day or some days

Description: Current user of cigarillos (smoked every day or some days) among all regular users.

Numerator: Number of regular cigarillo users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,089	95.51
1 = Yes	790	2.79
Missing	483	1.70
Total	28,362	100.00

This variable has 27,879 valid cases out of 28,362 total cases.

UM_W2_A_cigarillo_30day: In the past 30 days, number of days smoked cigarillos

Description: Number of days a respondent smoked cigarillos in the past 30 days.

Numerator: Respondents who have smoked cigarillos in the past 30 days

- Mean: 0.36
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 2.71
- Never smoked or did not smoke in the past 30 days: 27,244 (96.06%)
- Missing: 5 (0.02%)

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_cigarillo1_past30: Adult cigarillo user - smoked at least 1 day in the past 30 days

Description: Respondents who have smoked cigarillos at least 1 day in the past 30 days.

Numerator: Number of respondents who have smoked cigarillos at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,244	96.06
1 = Yes	1,113	3.92
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_cigarillo10_past30: Adult cigarillo user - smoked at least 10 days in the past 30 days

Description: Respondents who have smoked cigarillos at least 10 days in the past 30 days.

¹Those responses that are “not valid” are described for each indicator under “missing values”

Numerator: Number of respondents who have smoked cigarillos at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,005	98.74
1 = Yes	352	1.24
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_cigarillo25_past30: Adult cigarillo user - smoked at least 25 days in the past 30 days

Description: Respondents who have smoked cigarillos at least 25 days in the past 30 days.

Numerator: Number of respondents who have smoked cigarillos at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,165	99.31
1 = Yes	192	0.68
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_filtcigar_everysome: Adult filtered cigar user – every day or some days

Description: Current user of filtered cigars (smoked every day or some days) among all ever users.

Numerator: Number of filtered cigar users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,485	96.91
1 = Yes	855	3.01
Missing	22	0.08
Total	28,362	100.00

This variable has 28,340 valid cases out of 28,362 total cases.

UM_W2_A_filtcigar_everysome_ESTD: Adult regular filtered cigar user – every day or some days

Description: Current user of filtered cigars (smoked every day or some days) among all regular users.

Numerator: Number of regular filtered cigar users who currently smoke every day or some days

Denominator: Total number of respondents¹

¹Those responses that are “not valid” are described for each indicator under “missing values”

Value	Unweighted frequency	%
0 = No	27,864	98.24
1 = Yes	473	1.67
Missing	25	0.09
Total	28,362	100.00

This variable has 28,339 valid cases out of 28,362 total cases.

UM_W2_A_filtcigar_30day: In the past 30 days, number of days smoked filtered cigars

Description: Number of days a respondent smoked filtered cigars in the past 30 days.

Numerator: Respondents who have smoked filtered cigars in the past 30 days

- Mean: 0.31
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 2.79
- Never smoked or did not smoke in the past 30 days: 27,689 (97.63%)
- Missing: 6 (0.02%)

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_filtcigar1_past30: Adult filtered cigar user - smoked at least 1 day in the past 30 days

Description: Respondents who have smoked filtered cigars at least 1 day in the past 30 days.

Numerator: Number of respondents who have smoked filtered cigars at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,689	97.63
1 = Yes	667	2.35
Missing	6	0.02
Total	28,362	100.00

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_filtcigar10_past30: Adult filtered cigar user - smoked at least 10 days in the past 30 days

Description: Respondents who have smoked filtered cigars at least 10 days in the past 30 days.

Numerator: Number of respondents who have smoked filtered cigars at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,056	98.92

¹Those responses that are “not valid” are described for each indicator under “missing values”

1 = Yes	300	1.06
Missing	6	0.02
Total	28,362	100.00

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_filtcigar25_past30: Adult filtered cigar user - smoked at least 25 days in the past 30 days

Description: Respondents who have smoked filtered cigars at least 25 days in the past 30 days.

Numerator: Number of respondents who have smoked filtered cigars at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,129	99.18
1 = Yes	227	0.80
Missing	6	0.02
Total	28,362	100.00

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_pipe_everysome: Adult pipe user – every day or some days

Description: Current user of pipes (smoked every day or some days) among all ever users.

Numerator: Number of pipe users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,946	98.53
1 = Yes	402	1.42
Missing	14	0.05
Total	28,362	100.00

This variable has 28,348 valid cases out of 28,362 total cases.

UM_W2_A_pipe_everysome_ESTD: Adult regular pipe user – every day or some days

Description: Current user of pipes (smoked every day or some days) among all regular users.

Numerator: Number of regular pipe users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,124	99.16
1 = Yes	226	0.80
Missing	12	0.04
Total	28,362	100.00

¹Those responses that are “not valid” are described for each indicator under “missing values”

This variable has 28,350 valid cases out of 28,362 total cases.

UM_W2_A_pipe_30day: In the past 30 days, number of days smoked pipes

Description: Number of days a respondent smoked pipes in the past 30 days.

Numerator: Respondents who have smoked pipes in the past 30 days

- Mean: 0.08
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 1.38
- Never smoked or did not smoke in the past 30 days: 28,102 (99.08%)
- Missing: 5 (0.02%)

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_pipe1_past30: Adult pipe user - smoked at least 1 day in the past 30 days

Description: Respondents who have smoked pipes at least 1 day in the past 30 days.

Numerator: Number of respondents who have smoked pipes at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,102	99.08
1 = Yes	255	0.90
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_pipe10_past30: Adult pipe user - smoked at least 10 days in the past 30 days

Description: Respondents who have smoked pipes at least 10 days in the past 30 days.

Numerator: Number of respondents who have smoked pipes at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,283	99.72
1 = Yes	74	0.26
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_pipe25_past30: Adult pipe user - smoked at least 25 days in the past 30 days

Description: Respondents who have smoked pipes at least 25 days in the past 30 days.

Numerator: Number of respondents who have smoked pipes at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,305	99.80
1 = Yes	52	0.18
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_hook_everysome: Adult hookah user – every day or some days

Description: Current user of hookahs (smoked every day or some days) among all ever users.

Numerator: Number of hookah users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,553	93.62
1 = Yes	1,798	6.34
Missing	11	0.04
Total	28,362	100.00

This variable has 28,351 valid cases out of 28,362 total cases.

UM_W2_A_hook_everysome_ESTD: Adult regular hookah user – every day or some days

Description: Current user of hookahs (smoked every day or some days) among all regular users.

Numerator: Number of regular hookah users who currently smoke every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,630	97.42
1 = Yes	723	2.55
Missing	9	0.03
Total	28,362	100.00

This variable has 28,353 valid cases out of 28,362 total cases.

UM_W2_A_hook_30day: In the past 30 days, number of times smoked hookahs

Description: Number of times a respondent smoked hookahs in the past 30 days.

¹Those responses that are “not valid” are described for each indicator under “missing values”

Numerator: Respondents who have smoked hookahs in the past 30 days

- Mean: 0.19
- Mode: 0
- Minimum: 0
- Maximum: 87
- Standard deviation: 1.97
- Never smoked or did not smoke in the past 30 days: 27,141 (95.69%)
- Missing: 9 (0.03%)

This variable has 28,353 valid cases out of 28,362 total cases.

UM_W2_A_hook1_past30: Adult hookah user - smoked at least 1 time in the past 30 days

Description: Respondents who have smoked hookahs at least 1 time in the past 30 days.

Numerator: Number of respondents who have smoked hookahs at least 1 time in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,141	95.69
1 = Yes	1,212	4.27
Missing	9	0.03
Total	28,362	100.00

This variable has 28,353 valid cases out of 28,362 total cases.

UM_W2_A_hook10_past30: Adult hookah user - smoked at least 10 times in the past 30 days

Description: Respondents who have smoked hookahs at least 10 times in the past 30 days.

Numerator: Number of respondents who have smoked hookahs at least 10 times in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,216	99.49
1 = Yes	137	0.48
Missing	9	0.03
Total	28,362	100.00

This variable has 28,353 valid cases out of 28,362 total cases.

UM_W2_A_hook25_past30: Adult hookah user - smoked at least 25 times in the past 30 days

Description: Respondents who have smoked hookahs at least 25 times in the past 30 days.

Numerator: Number of respondents who have smoked hookahs at least 25 times in the past 30 days

Denominator: Total number of respondents¹

¹Those responses that are “not valid” are described for each indicator under “missing values”

Value	Unweighted frequency	%
0 = No	28,286	99.73
1 = Yes	67	0.24
Missing	9	0.03
Total	28,362	100.00

This variable has 28,353 valid cases out of 28,362 total cases.

1.4. Smokeless tobacco use variables

UM_W2_A_snus_everysome: Adult snus pouch user – every day or some days

Description: Current user of snus pouches (used every day or some days) among all ever users.

Numerator: Number of snus pouch users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,021	98.80
1 = Yes	299	1.05
Missing	42	0.15
Total	28,362	100.00

This variable has 28,320 valid cases out of 28,362 total cases.

Missing values: See note about missing values for all indicators

UM_W2_A_snus_everysome_ESTD: Adult regular snus pouch user – every day or some days

Description: Current user of snus pouches (used every day or some days) among all regular users.

Numerator: Number of regular snus pouch users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,132	99.19
1 = Yes	197	0.69
Missing	33	0.12
Total	28,362	100.00

This variable has 28,329 valid cases out of 28,362 total cases.

UM_W2_A_snus_30day: In the past 30 days, number of days used snus pouches

Description: Number of days a respondent used snus pouches in the past 30 days.

Numerator: Respondents who have used snus pouches in the past 30 days

- Mean: 0.10
- Mode: 0

¹Those responses that are “not valid” are described for each indicator under “missing values”

- Minimum: 0
- Maximum: 30
- Standard deviation: 1.59
- Never used or did not use in the past 30 days: 28,147 (99.24%)
- Missing: 5 (0.02%)

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_snus1_past30: Adult snus pouch user - used at least 1 day in the past 30 days

Description: Respondents who have used snus pouches at least 1 day in the past 30 days.

Numerator: Number of respondents who have used snus pouches at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,147	99.24
1 = Yes	210	0.74
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_snus10_past30: Adult snus pouch user - used at least 10 days in the past 30 days

Description: Respondents who have used snus pouches at least 10 days in the past 30 days.

Numerator: Number of respondents who have used snus pouches at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,245	99.59
1 = Yes	112	0.39
Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_snus25_past30: Adult snus pouch user - used at least 25 days in the past 30 days

Description: Respondents who have used snus pouches at least 25 days in the past 30 days.

Numerator: Number of respondents who have used snus pouches at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,287	99.74
1 = Yes	70	0.25

¹Those responses that are “not valid” are described for each indicator under “missing values”

Missing	5	0.02
Total	28,362	100.00

This variable has 28,357 valid cases out of 28,362 total cases.

UM_W2_A_slt_everysome: Adult smokeless tobacco product user – every day or some days

Description: Current user of smokeless tobacco products such as loose snus, moist snuff, dip, spit or chewing tobacco (used every day or some days) among all ever users.

Numerator: Number of smokeless tobacco product users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	26,930	94.95
1 = Yes	1,409	4.97
Missing	23	0.08
Total	28,362	100.00

This variable has 28,339 valid cases out of 28,362 total cases.

Missing values: See note about missing values for all indicators.

UM_W2_A_slt_everysome_ESTD: Adult regular smokeless tobacco product user – every day or some days

Description: Current user of smokeless tobacco products such as loose snus, moist snuff, dip, spit or chewing tobacco (used every day or some days) among all regular users.

Numerator: Number of regular smokeless tobacco product users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,082	95.49
1 = Yes	1,261	4.45
Missing	19	0.07
Total	28,362	100.00

This variable has 28,343 valid cases out of 28,362 total cases.

UM_W2_A_slt_30day: In the past 30 days, number of days used smokeless tobacco products

Description: Number of days a respondent used smokeless tobacco products such as loose snus, moist snuff, dip, spit or chewing tobacco in the past 30 days.

Numerator: Respondents who have used smokeless tobacco products in the past 30 days

- Mean: 1.03

¹Those responses that are “not valid” are described for each indicator under “missing values”

- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 5.25
- Never used or did not use in the past 30 days: 27,061 (95.41%)
- Missing: 8 (0.03%)

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_slt1_past30: Adult smokeless tobacco product user - used at least 1 day in the past 30 days

Description: Respondents who have used smokeless tobacco products such as loose snus, moist snuff, dip, spit or chewing tobacco at least 1 day in the past 30 days.

Numerator: Number of respondents who have used smokeless tobacco products at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,061	95.41
1 = Yes	1,293	4.56
Missing	8	0.03
Total	28,362	100.00

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_slt10_past30: Adult smokeless tobacco product user - used at least 10 days in the past 30 days

Description: Respondents who have used smokeless tobacco products such as loose snus, moist snuff, dip, spit or chewing tobacco at least 10 days in the past 30 days.

Numerator: Number of respondents who have used smokeless tobacco products at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,335	96.38
1 = Yes	1,019	3.59
Missing	8	0.03
Total	28,362	100.00

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_slt25_past30: Adult smokeless tobacco product user - used at least 25 days in the past 30 days

¹Those responses that are “not valid” are described for each indicator under “missing values”

Description: Respondents who have used smokeless tobacco products such as loose snus, moist snuff, dip, spit or chewing tobacco at least 25 days in the past 30 days.

Numerator: Number of respondents who have used smokeless tobacco products at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	27,499	96.96
1 = Yes	855	3.01
Missing	8	0.03
Total	28,362	100.00

This variable has 28,354 valid cases out of 28,362 total cases.

UM_W2_A_dissolve_everysome: Adult dissolvable tobacco product user – every day or some days

Description: Current user of dissolvable tobacco products such as Ariva, Stonewall, or Camel Orbs, Sticks or Strips (used every day or some days) among all ever users.

Numerator: Number of dissolvable tobacco product users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,316	99.84
1 = Yes	34	0.12
Missing	12	0.04
Total	28,362	100.00

This variable has 28,350 valid cases out of 28,362 total cases.

UM_W2_A_dissolve_everysome_ESTD: Adult regular dissolvable tobacco product user – every day or some days

Description: Current user of dissolvable tobacco products such as Ariva, Stonewall, or Camel Orbs, Sticks or Strips (used every day or some days) among all regular users.

Numerator: Number of regular dissolvable tobacco product users who currently use every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,340	99.92
1 = Yes	12	0.04
Missing	10	0.04
Total	28,362	100.00

This variable has 28,352 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”

UM_W2_A_dissolve_30day: In the past 30 days, number of days used dissolvable tobacco products

Description: Number of days a respondent used dissolvable tobacco products such as Ariva, Stonewall, or Camel Orbs, Sticks or Strips in the past 30 days.

Numerator: Respondents who have used dissolvable tobacco products in the past 30 days

- Mean: 0.01
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 0.48
- Never used or did not use in the past 30 days: 28,331 (99.89%)
- Missing: 6 (0.02%)

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_dissolve1_past30: Adult dissolvable tobacco product user - used at least 1 day in the past 30 days

Description: Respondents who have used dissolvable tobacco products such as Ariva, Stonewall, or Camel Orbs, Sticks or Strips at least 1 day in the past 30 days.

Numerator: Number of respondents who have used dissolvable tobacco products at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,331	99.89
1 = Yes	25	0.09
Missing	6	0.02
Total	28,362	100.00

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_dissolve10_past30: Adult dissolvable tobacco product user - used at least 10 days in the past 30 days

Description: Respondents who have used dissolvable tobacco products such as Ariva, Stonewall, or Camel Orbs, Sticks or Strips at least 10 days in the past 30 days.

Numerator: Number of respondents who have used dissolvable tobacco products at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
-------	----------------------	---

¹Those responses that are “not valid” are described for each indicator under “missing values”

0 = No	28,347	99.95
1 = Yes	9	0.03
Missing	6	0.02
Total	28,362	100.00

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_dissolve25_past30: Adult dissolvable tobacco product user - used at least 25 days in the past 30 days

Description: Respondents who have used dissolvable tobacco products such as Ariva, Stonewall, or Camel Orbs, Sticks or Strips at least 25 days in the past 30 days.

Numerator: Number of respondents who have used dissolvable tobacco products at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No	28,349	99.95
1 = Yes	7	0.02
Missing	6	0.02
Total	28,362	100.00

This variable has 28,356 valid cases out of 28,362 total cases.

UM_W2_A_combust_everysome: Adult other combustible tobacco products user - every day or some days

Description: Respondents who reported using traditional cigars, cigarillos, filtered cigars, pipes or hookahs every day or some days.

Numerator: Number of respondents who currently use traditional cigars, cigarillos, filtered cigars, pipes, or hookahs every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	24,098	84.97
1 = Yes	4,261	15.02
Missing	3	0.01
Total	28,362	100.00

This variable has 28,359 valid cases out of 28,362 total cases. Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

UM_W2_A_slgroup_everysome: Adult multiple smokeless tobacco products user - every day or some days

¹Those responses that are “not valid” are described for each indicator under “missing values”

Description: Respondents who reported using snus pouches or other smokeless tobacco products every day or some days.

Numerator: Number of respondents who currently use snus pouches or other smokeless tobacco products every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	26,845	94.65
1 = Yes	1,514	5.34
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

UM_W2_A_combust_everysome_ESTD: Adult regular other combustible tobacco products user - every day or some days

Description: Regular users who reported using traditional cigars, cigarillos, filtered cigars, pipes or hookahs every day or some days.

Numerator: Number of regular users who currently use traditional cigars, cigarillos, filtered cigars, pipes, or hookahs every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	26,163	92.25
1 = Yes	2,196	7.74
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product*

UM_W2_A_slgroup_everysome_ESTD: Adult regular multiple smokeless tobacco products user - every day or some days

Description: Regular users who reported using snus pouches or other smokeless tobacco products every day or some days.

Numerator: Number of regular users who currently use snus pouches or other smokeless tobacco products every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	27,011	95.24

¹Those responses that are "not valid" are described for each indicator under "missing values"

1 = Yes	1,348	4.75
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product*

UM_W2_A_combust1_past30: Adult other combustible tobacco products user - used at least 1 day in the past 30 days

Description: Respondents who reported using traditional cigars, cigarillos, filtered cigars, pipes or hookahs at least 1 day in the past 30 days.

Numerator: Number of respondents who used traditional cigars, cigarillos, filtered cigars, pipes, or hookahs at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	25,253	89.04
1 = Yes	3,106	10.95
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

UM_W2_A_slgroup1_past30: Adult multiple smokeless tobacco products user – used at least 1 day in the past 30 days

Description: Respondents who reported using snus pouches or other smokeless tobacco products at least 1 day in the past 30 days.

Numerator: Number of respondents who used snus pouches or other smokeless tobacco products at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	26,983	95.14
1 = Yes	1,376	4.85
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

UM_W2_A_combust10_past30: Adult other combustible tobacco products user – used at least 10 days in the past 30 days

¹Those responses that are “not valid” are described for each indicator under “missing values”

Description: Respondents who reported using traditional cigars, cigarillos, filtered cigars, pipes or hookahs at least 10 days in the past 30 days.

Numerator: Number of respondents who used traditional cigars, cigarillos, filtered cigars, pipes, or hookahs at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	27,486	96.91
1 = Yes	873	3.08
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

UM_W2_A_sltgroup10_past30: Adult multiple smokeless tobacco products user – used at least 10 days in the past 30 days

Description: Respondents who reported using snus pouches or other smokeless tobacco products at least 10 days in the past 30 days.

Numerator: Number of respondents who used snus pouches or other smokeless tobacco products at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	27,285	96.20
1 = Yes	1,074	3.79
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

UM_W2_A_combust25_past30: Adult other combustible tobacco products user – used at least 25 days in the past 30 days

Description: Respondents who reported using traditional cigars, cigarillos, filtered cigars, pipes or hookahs at least 25 days in the past 30 days.

Numerator: Number of respondents who used traditional cigars, cigarillos, filtered cigars, pipes, or hookahs at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	27,812	98.06

¹Those responses that are “not valid” are described for each indicator under “missing values”

1 = Yes	547	1.93
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in 0 category as long as they responded 'NO' to at least one product.*

UM_W2_A_sltgroup25_past30: Adult multiple smokeless tobacco products user – used at least 25 days in the past 30 days

Description: Respondents who reported using snus pouches or other smokeless tobacco products at least 25 days in the past 30 days.

Numerator: Number of respondents who used snus pouches or other smokeless tobacco products at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = No*	27,466	96.84
1 = Yes	893	3.15
Missing	3	0.01
Total	28,362	100.00

*This variable has 28,359 valid cases out of 28,362 total cases. * Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

1.5. Population patterns of single, dual and poly-use

UM_W2_A_pop_poly_everysome: Adult tobacco product user - every day or some days

Description: Population patterns of single, dual and poly-use among established cigarette users and users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who currently use every day or some days.

Numerator: Number of respondents who are [VALUE]

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never user*	14,952	52.72
1 = Cigarettes only user	5,985	21.10
2 = E-cigarettes only user	660	2.33
3 = Other combustibles (OC) only user	1,745	6.15
4 = Smokeless (SLT) only user	721	2.54
5 = Cigarettes and e-cigarettes user	1,296	4.57
6 = Cigarettes and OC user	1,210	4.27
7 = Cigarettes and SLT user	247	0.87
8 = E-cigarettes and OC user	294	1.04
9 = E-cigarettes and SLT user	30	0.11

¹Those responses that are “not valid” are described for each indicator under “missing values”

10 = OC and SLT user	132	0.47
11 = Cigarettes, e-cigarettes and OC user	558	1.97
12 = Cigarettes, e-cigarettes and SLT user	76	0.27
13 = Cigarettes, OC and SLT user	146	0.51
14 = E-cigarettes, OC and SLT user	29	0.10
15 = Cigarettes, e-cigarettes, OC and SLT user	127	0.45
Missing	154	0.54
Total	28,362	100.00

*This variable has 28,208 valid cases out of 28,362 total cases. * Never established cigarette users and never users of other tobacco products.*

UM_W2_A_pop_poly_everysome_ESTD: Adult regular tobacco product user - every day or some days

Description: Population patterns of single, dual and poly-use among established cigarette users and regular users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who currently use every day or some days.

Numerator: Number of respondents who are [VALUE]

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never regular user	16,192	57.09
1 = Cigarettes only user	7,325	25.83
2 = E-cigarettes only user	527	1.86
3 = Other combustibles (OC) only user	895	3.16
4 = Smokeless (SLT) only user	782	2.76
5 = Cigarettes and e-cigarettes user	816	2.88
6 = Cigarettes and OC user	815	2.87
7 = Cigarettes and SLT user	323	1.14
8 = E-cigarettes and OC user	85	0.30
9 = E-cigarettes and SLT user	18	0.06
10 = OC and SLT user	54	0.19
11 = Cigarettes, e-cigarettes and OC user	212	0.75
12 = Cigarettes, e-cigarettes and SLT user	42	0.15
13 = Cigarettes, OC and SLT user	79	0.28
14 = E-cigarettes, OC and SLT user	11	0.04
15 = Cigarettes, e-cigarettes, OC and SLT user	36	0.13
Missing	150	0.53
Total	28,362	100.00

This variable has 28,212 valid cases out of 28,362 total cases.

UM_W2_A_pop_poly_1_past30: Adult tobacco product user – used at least 1 day in the past 30 days

¹Those responses that are “not valid” are described for each indicator under “missing values”

Description: Population patterns of single, dual and poly-use among established cigarette users and users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who used at least 1 day in the past 30 days.

Numerator: Number of respondents who used [VALUE] at least 1 day in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never user*	15,593	54.98
1 = Cigarettes only user	6,604	23.28
2 = E-cigarettes only user	663	2.34
3 = Other combustibles (OC) only user	1,334	4.70
4 = Smokeless (SLT) only user	762	2.69
5 = Cigarettes and e-cigarettes user	1,137	4.01
6 = Cigarettes and OC user	1,018	3.59
7 = Cigarettes and SLT user	269	0.95
8 = E-cigarettes and OC user	178	0.63
9 = E-cigarettes and SLT user	24	0.08
10 = OC and SLT user	85	0.30
11 = Cigarettes, e-cigarettes and OC user	308	1.09
12 = Cigarettes, e-cigarettes and SLT user	67	0.24
13 = Cigarettes, OC and SLT user	85	0.30
14 = E-cigarettes, OC and SLT user	20	0.07
15 = Cigarettes, e-cigarettes, OC and SLT user	60	0.21
Missing	155	0.55
Total	28,362	100.00

*This variable has 28,207 valid cases out of 28,362 total cases. * Never established cigarette users and never users of other tobacco products.*

UM_W2_A_pop_poly_10_past30: Adult tobacco product user – used at least 10 days in the past 30 days

Description: Population patterns of single, dual and poly-use among established cigarette users and users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who used at least 10 days in the past 30 days.

Numerator: Number of respondents who used [VALUE] at least 10 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never user*	17,653	62.23
1 = Cigarettes only user	7,491	26.41
2 = E-cigarettes only user	616	2.17
3 = Other combustibles (OC) only user	401	1.41
4 = Smokeless (SLT) only user	804	2.83
5 = Cigarettes and e-cigarettes user	554	1.95

¹Those responses that are “not valid” are described for each indicator under “missing values”

6 = Cigarettes and OC user	360	1.27
7 = Cigarettes and SLT user	184	0.65
8 = E-cigarettes and OC user	22	0.08
9 = E-cigarettes and SLT user	21	0.07
10 = OC and SLT user	14	0.05
11 = Cigarettes, e-cigarettes and OC user	40	0.14
12 = Cigarettes, e-cigarettes and SLT user	16	0.06
13 = Cigarettes, OC and SLT user	19	0.07
14 = E-cigarettes, OC and SLT user	3	0.01
15 = Cigarettes, e-cigarettes, OC and SLT user	9	0.03
Missing	155	0.55
Total	28,362	100.00

*This variable has 28,207 valid cases out of 28,362 total cases. * Never established cigarette users and never users of other tobacco products.*

UM_W2_A_pop_poly_25_past30: Adult tobacco product user - used at least 25 days in the past 30 days

Description: Population patterns of single, dual and poly-use among established cigarette users and users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who used at least 25 days in the past 30 days.

Numerator: Number of respondents who used [VALUE] at least 25 days in the past 30 days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never user*	18,782	66.22
1 = Cigarettes only user	7,140	25.17
2 = E-cigarettes only user	596	2.10
3 = Other combustibles (OC) only user	270	0.95
4 = Smokeless (SLT) only user	742	2.62
5 = Cigarettes and e-cigarettes user	276	0.97
6 = Cigarettes and OC user	237	0.84
7 = Cigarettes and SLT user	108	0.38
8 = E-cigarettes and OC user	10	0.04
9 = E-cigarettes and SLT user	12	0.04
10 = OC and SLT user	6	0.02
11 = Cigarettes, e-cigarettes and OC user	7	0.02
12 = Cigarettes, e-cigarettes and SLT user	5	0.02
13 = Cigarettes, OC and SLT user	11	0.04
14 = E-cigarettes, OC and SLT user	3	0.01
15 = Cigarettes, e-cigarettes, OC and SLT user	2	0.01
Missing	155	0.55
Total	28,362	100.00

*This variable has 28,207 valid cases out of 28,362 total cases. * Never established cigarette users and never users of other tobacco products.*

¹Those responses that are “not valid” are described for each indicator under “missing values”

1.6. States for transition analysis based on current use

UM_W2_A_states_everysome: Adult tobacco product user - every day or some days

Description: States for transition analysis of single, dual and poly-use among established cigarette users and users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who currently use every day or some days.

Numerator: Number of respondents who use [VALUE] every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never user*	5,930	20.91
1 = Former user of any product	9,022	31.81
2 = Cigarettes only user	5,985	21.10
3 = E-cigarettes only user	660	2.33
4 = Other combustibles (OC) only user	1,745	6.15
5 = Smokeless (SLT) only user	721	2.54
6 = Cigarettes and e-cigarettes user	1,296	4.57
7 = Cigarettes and OC user	1,210	4.27
8 = Cigarettes and SLT user	247	0.87
9 = Poly user with cigarettes (cigs, e-cigs and OC; cigs, e-cigs and SLT; cigs, OC and SLT or cigs, e-cigs, OC and SLT)	907	3.20
10 = Other dual/poly-user without cigarettes (e-cigs and OC; e-cigs and SLT; OC and SLT; e-cigs, OC and SLT)	485	1.71
Missing	154	0.54
Total	28,362	100.00

*This variable has 28,208 valid cases out of 28,362 total cases. * Never established cigarette users and never users of other tobacco products.*

UM_W2_A_states_everysome_ESTD: Adult regular tobacco product user - every day or some days

Description: States for transition analysis of single, dual and poly-use among established cigarette users and regular users of e-cigarettes, other combustible tobacco products and multiple smokeless tobacco products who currently use every day or some days.

Numerator: Number of respondents who use [VALUE] every day or some days

Denominator: Total number of respondents¹

Value	Unweighted frequency	%
0 = Never regular user	11,066	39.02
1 = Former user of any product	5,126	18.08
2 = Cigarettes only user	7,325	25.83

¹Those responses that are “not valid” are described for each indicator under “missing values”

3 = E-cigarettes only user	527	1.86
4 = Other combustibles (OC) only user	895	3.16
5 = Smokeless (SLT) only user	782	2.76
6 = Cigarettes and e-cigarettes user	816	2.88
7 = Cigarettes and OC user	815	2.87
8 = Cigarettes and SLT user	323	1.14
9 = Poly user with cigarettes (cigs, e-cigs and OC; cigs, e-cigs and SLT; cigs, OC and SLT or cigs, e-cigs, OC and SLT)	369	1.30
10 = Other dual/poly-user without cigarettes (e-cigs and OC; e-cigs and SLT; OC and SLT; e-cigs, OC and SLT)	168	0.59
Missing	150	0.53
Total	28,362	100.00

This variable has 28,212 valid cases out of 28,362 total cases.

UM_W2_A_TDS: Adult tobacco dependence score

Description: Standardized wave 2 adult dependence score based on 16 items.

Numerator: People who are current established users for at least one tobacco product (cigarettes, e-cigarettes, cigars, hookah, smokeless tobacco or snus).

Denominator: Total number of respondents¹

- Mean: 0
- Minimum: -1.397
- 1st quantile: -0.906
- Median: -0.056
- 3rd quantile: 0.772
- Maximum: 2.170
- Standard deviation: 1
- Missing: 16,607

This variable has 11,755 valid cases out of 28,362 total cases.

¹Those responses that are “not valid” are described for each indicator under “missing values”