

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

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.

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### 1.1. Cigarette use variables

#### UM\_W1\_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  $\geq 100$  cigarettes in their lifetimes

**Denominator:** Total number of respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	15,859	49.07
1 = Yes	16,326	50.51
Missing	135	0.42
Total	32,320	100.00

*This variable has 32,185 valid cases out of 32,320 total cases.*

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

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#### UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	20,844	64.49
1 = Yes	11,402	35.28
Missing	74	0.23
Total	32,320	100.00

*This variable has 32,246 valid cases out of 32,320 total cases.*

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

**UM\_W1\_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 respondents<sup>1</sup>

- 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: 19,112
- Missing: 92

*This variable has 32,228 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	19,112	59.13
1 = Yes	13,116	40.58
Missing	92	0.28
Total	32,320	100.00

*This variable has 32,224 valid cases out of 32,320 total cases.*

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**UM\_W1\_A\_cigs1\_past30\_ESTD: Adult established smoker - smoked at least 1 day in the past 30 days**

**Description:** Established smokers (smoked  $\geq 100$  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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	20,939	64.79
1 = Yes	11,209	34.68
Missing	172	0.53
Total	32,320	100.00

*This variable has 32,148 valid cases out of 32,320 total cases.*

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

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	20,621	63.80
1 = Yes	11,607	35.91
Missing	92	0.28
Total	32,320	100.00

*This variable has 32,224 valid cases out of 32,320 total cases.*

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**UM\_W1\_A\_cigs10\_past30\_ESTD: Adult established smoker - smoked at least 10 days in the past 30 days**

**Description:** Established smokers (smoked  $\geq 100$  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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	21,787	67.41
1 = Yes	10,361	32.06
Missing	172	0.53
Total	32,320	100.00

*This variable has 32,148 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	21,825	67.53
1 = Yes	10,403	32.19
Missing	92	0.28
Total	32,320	100.00

*This variable has 32,224 valid cases out of 32,320 total cases.*

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

**UM\_W1\_A\_cigs25\_past30\_ESTD: Adult established smoker - smoked at least 25 days in the past 30 days**

**Description:** Established smokers (smoked  $\geq 100$  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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	22,741	70.36
1 = Yes	9,407	29.11
Missing	172	0.53
Total	32,320	100.00

*This variable has 32,148 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

- Mean: 6.74
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 500
- Standard deviation: 25.26
- Never smoked or did not smoke in the past 30 days: 18,848
- Missing: 538

*This variable has 31,782 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = None	18,848	58.32
1 = Less than 20	8,841	27.35

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

2 = Twenty or more	4,094	12.67
Missing	537	1.66
Total	32,320	100.00

*This variable has 31,781 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
1 = Yes	4,858	15.03
Missing	27,462	84.97
Total	32,320	100

*This variable has 4,858 valid cases out of 32,320 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\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,020	92.88
1 = Yes	2,263	7.00
Missing	37	0.11
Total	32,320	100.00

*This variable has 32,283 valid cases out of 32,320 total cases.*

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

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

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	28,640	88.61
1 = Yes	3,642	11.27
Missing	38	0.12
Total	32,320	100.00

*This variable has 32,282 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,713	95.03
1 = Yes	1,575	4.87
Missing	32	0.10
Total	32,320	100.00

*This variable has 32,288 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

- Mean: 1.13
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 5.07
- Never used or did not use in the past 30 days: 29,492

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

- Missing: 41

*This variable has 32,279 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	29,492	91.25
1 = Yes	2,787	8.62
Missing	41	0.13
Total	32,320	100.00

*This variable has 32,279 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,947	95.75
1 = Yes	1,332	4.12
Missing	41	0.13
Total	32,320	100.00

*This variable has 32,279 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,443	97.29
1 = Yes	836	2.59
Missing	41	0.13
Total	32,320	100.00

*This variable has 32,279 valid cases out of 32,320 total cases.*

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

### 1.3. Other combustible tobacco products use variables

#### UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	29,760	92.08
1 = Yes	2,470	7.64
Missing	90	0.28
Total	32,320	100.00

*This variable has 32,231 valid cases out of 32,320 total cases.*

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

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#### UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,390	97.12
1 = Yes	840	2.60
Missing	90	0.28
Total	32,320	100.00

*This variable has 31,994 valid cases out of 32,320 total cases.*

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#### UM\_W1\_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: 0.32
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 2.55
- Never smoked or did not smoke in the past 30 days: 30,850 (95.45%)
- Missing: 96 (0.30%)

*This variable has 32,224 valid cases out of 32,320 total cases.*

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



**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,850	95.45
1 = Yes	1,374	4.25
Missing	96	0.30
Total	32,320	100.00

*This variable has 32,224 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,876	98.63
1 = Yes	348	1.08
Missing	96	0.30
Total	32,320	100.00

*This variable has 32,224 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,026	99.09
1 = Yes	198	0.61
Missing	96	0.30
Total	32,320	100.00

*This variable has 32,224 valid cases out of 32,320 total cases.*

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

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	29,388	90.93
1 = Yes	2,592	8.02
Missing	340	1.05
Total	32,320	100.00

*This variable has 32,042 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,041	96.04
1 = Yes	942	2.91
Missing	337	1.04
Total	32,320	100.00

*This variable has 31,343 valid cases out of 32,320 total cases.*

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**UM\_W1\_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: 0.47
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 3.13
- Never smoked or did not smoke in the past 30 days: 30,383 (94.01%)
- Missing: 354 (1.10%)

*This variable has 31,966 valid cases out of 32,320 total cases*

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**UM\_W1\_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.

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

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

**Denominator:** Total number of respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,383	94.01
1 = Yes	1,583	4.90
Missing	354	1.10
Total	32,320	100.00

*This variable has 31,985 valid cases out of 32,320 total cases.*

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**UM\_W1\_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.

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

**Denominator:** Total number of respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,441	97.28
1 = Yes	525	1.62
Missing	354	1.10
Total	32,320	100.00

*This variable has 31,985 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,675	98.00
1 = Yes	291	0.90
Missing	354	1.10
Total	32,320	100.00

*This variable has 31,985 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

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

Value	Unweighted frequency	%
0 = No	30,747	95.13
1 = Yes	1,238	3.83
Missing	335	1.04
Total	32,320	100.00

*This variable has 31,989 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,448	97.30
1 = Yes	537	1.66
Missing	335	1.04
Total	32,320	100.00

*This variable has 31,345 valid cases out of 32,320 total cases.*

**UM\_W1\_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: 0.30
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 2.74
- Never smoked or did not smoke in the past 30 days: 31,294 (96.83%)
- Missing: 347 (1.07%)

*This variable has 31,973 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,294	96.83

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

1 = Yes	679	2.10
Missing	347	1.07
Total	32,320	100.00

*This variable has 31,976 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,620	97.83
1 = Yes	353	1.09
Missing	347	1.07
Total	32,320	100.00

*This variable has 31,976 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,732	98.18
1 = Yes	241	0.75
Missing	347	1.07
Total	32,320	100.00

*This variable has 31,976 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,572	97.69
1 = Yes	709	2.19
Missing	39	0.12
Total	32,320	100.00

*This variable has 32,281 valid cases out of 32,320 total cases.*

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

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,965	98.90
1 = Yes	318	0.98
Missing	37	0.11
Total	32,320	100.00

*This variable has 32,283 valid cases out of 32,320 total cases.*

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**UM\_W1\_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: 0.11
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 1.60
- Never smoked or did not smoke in the past 30 days: 31,924 (98.77%)
- Missing: 41 (0.13%)

*This variable has 32,279 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,924	98.77
1 = Yes	355	1.10
Missing	41	0.13
Total	32,320	100.00

*This variable has 32,279 valid cases out of 32,320 total cases.*

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**UM\_W1\_A\_pipe10\_past30: Adult pipe user - smoked at least 10 days in the past 30 days**

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

**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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,155	99.49
1 = Yes	124	0.38
Missing	41	0.13
Total	32,320	100.00

*This variable has 32,279 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,201	99.63
1 = Yes	78	0.24
Missing	41	0.13
Total	32,320	100.00

*This variable has 32,279 valid cases out of 32,320 total cases.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	29,243	90.48
1 = Yes	3,049	9.43
Missing	28	0.09
Total	32,320	100.00

*This variable has 32,292 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

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

Value	Unweighted frequency	%
0 = No	31,236	96.65
1 = Yes	1,058	3.27
Missing	26	0.08
Total	32,320	100.00

*This variable has 32,294 valid cases out of 32,320 total cases*

**UM\_W1\_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.

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

- Mean: 0.29
- Mode: 0
- Minimum: 0
- Maximum: 435
- Standard deviation: 4.92
- Never smoked or did not smoke in the past 30 days: 31,356 (97.02%)
- Missing: 32 (0.10%)

*This variable has 32,288 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,356	97.02
1 = Yes	932	2.88
Missing	32	0.10
Total	32,320	100.00

*This variable has 32,288 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,058	99.19

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



1 = Yes	230	0.71
Missing	32	0.10
Total	32,320	100.00

*This variable has 32,288 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,189	99.59
1 = Yes	99	0.31
Missing	32	0.10
Total	32,320	100.00

*This variable has 32,288 valid cases out of 32,320 total cases.*

---

**1.4. Smokeless tobacco use variables**

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,796	98.38
1 = Yes	482	1.49
Missing	42	0.13
Total	32,320	100.00

*This variable has 32,278 valid cases out of 32,320 total cases.*

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

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,952	98.86
1 = Yes	273	0.84

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

Missing	95	0.29
Total	32,320	100.00

*This variable has 32,225 valid cases out of 32,320 total cases.*

**UM\_W1\_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: 0.12
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 1.68
- Never used or did not use in the past 30 days: 32,003 (99.02%)
- Missing: 43 (0.13%)

*This variable has 32,277 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,003	99.02
1 = Yes	274	0.85
Missing	43	0.13
Total	32,320	100.00

*This variable has 32,277 valid cases out of 32,320 total cases*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,126	99.40
1 = Yes	151	0.47
Missing	43	0.13
Total	32,320	100.00

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

*This variable has 32,277 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,193	99.61
1 = Yes	84	0.26
Missing	43	0.13
Total	32,320	100.00

*This variable has 32,277 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,402	94.07
1 = Yes	1,873	5.80
Missing	45	0.14
Total	32,320	100.00

*This variable has 32,275 valid cases out of 32,320 total cases.*

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

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,460	94.25

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

1 = Yes	1,597	4.94
Missing	263	0.81
Total	32,320	100.00

*This variable has 32,057 valid cases out of 32,320 total cases.*

**UM\_W1\_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: 1.13
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 5.50
- Never used or did not use in the past 30 days: 30,656 (94.85%)
- Missing: 47 (0.15%)

*This variable has 32,273 valid cases out of 32,320 total cases.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,656	94.85
1 = Yes	1,617	5.00
Missing	47	0.15
Total	32,320	100.00

*This variable has 32,273 valid cases out of 32,320 total cases.*

**UM\_W1\_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.

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

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

**Denominator:** Total number of respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	30,960	95.79
1 = Yes	1,313	4.06
Missing	47	0.15
Total	32,320	100.00

*This variable has 32,273 valid cases out of 32,320 total cases.*

---

**UM\_W1\_A\_slt25\_past30: Adult smokeless tobacco product user - used at least 25 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 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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	31,208	96.56
1 = Yes	1,065	3.30
Missing	47	0.15
Total	32,320	100.00

*This variable has 32,273 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,231	99.72
1 = Yes	67	0.21
Missing	22	0.07
Total	32,320	100.00

*This variable has 32,298 valid cases out of 32,320 total cases.*

---

**UM\_W1\_A\_dissolve\_everysome\_ESTD: Adult regular dissolvable tobacco product user – every day or some days**

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

**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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,279	99.87
1 = Yes	19	0.06
Missing	22	0.07
Total	32,320	100.00

*This variable has 32,298 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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: 0.60
- Never used or did not use in the past 30 days: 32,263 (99.82%)
- Missing: 22 (0.07%)

*This variable has 32,298 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,263	99.82
1 = Yes	35	0.11
Missing	22	0.07
Total	32,320	100.00

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

*This variable has 32,298 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,281	99.88
1 = Yes	17	0.05
Missing	22	0.07
Total	32,320	100.00

*This variable has 32,298 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No	32,286	99.89
1 = Yes	12	0.04
Missing	22	0.07
Total	32,320	100.00

*This variable has 32,298 valid cases out of 32,320 total cases.*

---

**UM\_W1\_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 respondents<sup>1</sup>

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

Value	Unweighted frequency	%
0 = No*	25,771	79.74
1 = Yes	6,543	20.24
Missing	6	0.02
Total	32,320	100.00

*This variable has 32,314 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

**UM\_W1\_A\_slgroup\_everysome: Adult multiple smokeless tobacco products user - every day or some days**

**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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	30,222	93.51
1 = Yes	2,091	6.47
Missing	7	0.02
Total	32,320	100.00

*This variable has 32,313 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	29,467	91.17
1 = Yes	2,847	8.81
Missing	6	0.02
Total	32,320	100.00

*This variable has 32,314 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

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



**UM\_W1\_A\_sltgroup\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	30,578	94.61
1 = Yes	1,735	5.37
Missing	7	0.02
Total	32,320	100.00

*This variable has 32,313 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

---

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	28,694	88.78
1 = Yes	3,620	11.20
Missing	6	0.02
Total	32,320	100.00

*This variable has 32,314 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

---

**UM\_W1\_A\_sltgroup1\_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 respondents<sup>1</sup>

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

Value	Unweighted frequency	%
0 = No*	30,530	94.46
1 = Yes	1,783	5.52
Missing	7	0.02
Total	32,320	100.00

*This variable has 32,313 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

**UM\_W1\_A\_combust10\_past30: Adult other combustible tobacco products user – used at least 10 days in the past 30 days**

**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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	31,057	96.09
1 = Yes	1,257	3.89
Missing	6	0.02
Total	32,320	100.00

*This variable has 32,314 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

**UM\_W1\_A\_slgroup10\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	30,891	95.58
1 = Yes	1,422	4.40
Missing	7	0.02
Total	32,320	100.00

*This variable has 32,313 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

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

**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	31,593	97.75
1 = Yes	721	2.23
Missing	6	0.02
Total	32,320	100.00

*This variable has 32,314 valid cases out of 32,320 total cases. \* Including people with missing values in zero category as long as they responded 'NO' to at least one product.*

---

**UM\_W1\_A\_slgroup25\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = No*	31,190	96.50
1 = Yes	1,123	3.47
Missing	7	0.02
Total	32,320	100.00

*This variable has 32,313 valid cases out of 32,320 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\_W1\_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 respondents<sup>1</sup>

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

Value	Unweighted frequency	%
0 = Never user*	15,837	49.00
1 = Cigarettes only user	6,501	20.11
2 = E-cigarettes only user	631	1.95
3 = Other combustibles (OC) only user	2,738	8.47
4 = Smokeless (SLT) only user	905	2.80
5 = Cigarettes and e-cigarettes user	1,425	4.41
6 = Cigarettes and OC user	1,757	5.44
7 = Cigarettes and SLT user	296	0.92
8 = E-cigarettes and OC user	407	1.26
9 = E-cigarettes and SLT user	23	0.07
10 = OC and SLT user	238	0.74
11 = Cigarettes, e-cigarettes and OC user	828	2.56
12 = Cigarettes, e-cigarettes and SLT user	66	0.20
13 = Cigarettes, OC and SLT user	304	0.94
14 = E-cigarettes, OC and SLT user	44	0.14
15 = Cigarettes, e-cigarettes, OC and SLT user	211	0.65
Missing	109	0.34
Total	32,320	100.00

*This variable has 32,211 valid cases out of 32,320 total cases. \* Never established cigarette users and never users of other tobacco products.*

---

#### **UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = Never regular user	17,963	55.58
1 = Cigarettes only user	8,803	27.24
2 = E-cigarettes only user	436	1.35
3 = Other combustibles (OC) only user	1,240	3.84
4 = Smokeless (SLT) only user	971	3.00
5 = Cigarettes and e-cigarettes user	716	2.22
6 = Cigarettes and OC user	1,021	3.16
7 = Cigarettes and SLT user	428	1.32
8 = E-cigarettes and OC user	118	0.37
9 = E-cigarettes and SLT user	13	0.04
10 = OC and SLT user	74	0.23
11 = Cigarettes, e-cigarettes and OC user	188	0.58
12 = Cigarettes, e-cigarettes and SLT user	45	0.14
13 = Cigarettes, OC and SLT user	143	0.44

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

14 = E-cigarettes, OC and SLT user	11	0.03
15 = Cigarettes, e-cigarettes, OC and SLT user	47	0.15
Missing	103	0.32
Total	32,320	100.00

*This variable has 32,217 valid cases out of 32,320 total cases.*

#### **UM\_W1\_A\_pop\_poly\_1\_past30: Adult tobacco product user – used at least 1 day 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 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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = Never user*	17,323	53.60
1 = Cigarettes only user	7,739	23.94
2 = E-cigarettes only user	668	2.07
3 = Other combustibles (OC) only user	1,560	4.83
4 = Smokeless (SLT) only user	989	3.06
5 = Cigarettes and e-cigarettes user	1,341	4.15
6 = Cigarettes and OC user	1,117	3.46
7 = Cigarettes and SLT user	348	1.08
8 = E-cigarettes and OC user	216	0.67
9 = E-cigarettes and SLT user	24	0.07
10 = OC and SLT user	118	0.37
11 = Cigarettes, e-cigarettes and OC user	373	1.15
12 = Cigarettes, e-cigarettes and SLT user	71	0.22
13 = Cigarettes, OC and SLT user	139	0.43
14 = E-cigarettes, OC and SLT user	19	0.06
15 = Cigarettes, e-cigarettes, OC and SLT user	66	0.20
Missing	209	0.65
Total	32,320	100.00

*This variable has 32,211 valid cases out of 32,320 total cases. \* Never established cigarette users and never users of other tobacco products.*

#### **UM\_W1\_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

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

**Denominator:** Total number of respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = Never user*	19,472	60.25
1 = Cigarettes only user	8,868	27.44
2 = E-cigarettes only user	560	1.73
3 = Other combustibles (OC) only user	588	1.82
4 = Smokeless (SLT) only user	1,037	3.21
5 = Cigarettes and e-cigarettes user	609	1.88
6 = Cigarettes and OC user	486	1.50
7 = Cigarettes and SLT user	273	0.84
8 = E-cigarettes and OC user	62	0.19
9 = E-cigarettes and SLT user	11	0.03
10 = OC and SLT user	31	0.10
11 = Cigarettes, e-cigarettes and OC user	51	0.16
12 = Cigarettes, e-cigarettes and SLT user	28	0.09
13 = Cigarettes, OC and SLT user	27	0.08
14 = E-cigarettes, OC and SLT user	3	0.01
15 = Cigarettes, e-cigarettes, OC and SLT user	5	0.02
Missing	209	0.65
Total	32,320	100.00

*This variable has 32,111 valid cases out of 32,320 total cases. \* Never established cigarette users and never users of other tobacco products.*

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**UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = Never user*	20,884	64.62
1 = Cigarettes only user	8,626	26.69
2 = E-cigarettes only user	493	1.53
3 = Other combustibles (OC) only user	374	1.16
4 = Smokeless (SLT) only user	931	2.88
5 = Cigarettes and e-cigarettes user	290	0.90
6 = Cigarettes and OC user	293	0.91
7 = Cigarettes and SLT user	152	0.47
8 = E-cigarettes and OC user	20	0.06
9 = E-cigarettes and SLT user	7	0.02
10 = OC and SLT user	8	0.02

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

11 = Cigarettes, e-cigarettes and OC user	14	0.04
12 = Cigarettes, e-cigarettes and SLT user	10	0.03
13 = Cigarettes, OC and SLT user	8	0.02
14 = E-cigarettes, OC and SLT user	0	0.00
15 = Cigarettes, e-cigarettes, OC and SLT user	1	0.00
Missing	209	0.65
Total	32,320	100.00

*This variable has 32,111 valid cases out of 32,320 total cases. \* Never established cigarette users and never users of other tobacco products.*

### 1.6. States for transition analysis based on current use

#### UM\_W1\_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 respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = Never user*	6,978	21.59
1 = Former user	8,859	27.41
2 = Cigarettes only user	6,501	20.11
3 = E-cigarettes only user	631	1.95
4 = Other combustibles (OC) only user	2,738	8.47
5 = Smokeless (SLT) only user	905	2.80
6 = Cigarettes and e-cigarettes user	1,425	4.41
7 = Cigarettes and OC user	1,757	5.44
8 = Cigarettes and SLT user	296	0.92
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)	1,409	4.36
10 = Other dual/poly-user without cigarettes (e-cigs and OC; e-cigs and SLT; OC and SLT; e-cigs, OC and SLT)	712	2.20
Missing	109	0.34
Total	32,320	100.00

*This variable has 32,211 valid cases out of 32,320 total cases. \* Never established cigarette users and never users of other tobacco products.*

#### UM\_W1\_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.

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

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

**Denominator:** Total number of respondents<sup>1</sup>

Value	Unweighted frequency	%
0 = Never regular user	13,296	41.14
1 = Former user	4,667	14.44
2 = Cigarettes only user	8,803	27.24
3 = E-cigarettes only user	436	1.35
4 = Other combustibles (OC) only user	1,240	3.84
5 = Smokeless (SLT) only user	971	3.00
6 = Cigarettes and e-cigarettes user	716	2.22
7 = Cigarettes and OC user	1,021	3.16
8 = Cigarettes and SLT user	428	1.32
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)	423	1.31
10 = Other dual/poly-user without cigarettes (e-cigs and OC; e-cigs and SLT; OC and SLT; e-cigs, OC and SLT)	216	0.67
Missing	103	0.32
Total	32,320	100.00

*This variable has 32,217 valid cases out of 32,320 total cases.*

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#### **UM\_W1\_A\_TDS: Adult tobacco dependence score**

**Description:** Standardized wave 1 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 respondents<sup>1</sup>

- Mean: 0
- Minimum: -1.454
- 1<sup>st</sup> quantile: -0.890
- Median: -0.039
- 3<sup>rd</sup> quantile: 0.798
- Maximum: 2.025
- Standard deviation: 1
- Missing: 18,245

*This variable has 14,075 valid cases out of 32,320 total cases.*

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