1. Cigarette Use Variables for PATH Youth Data (Wave 3)

This dictionary includes variables of cigarette, e-products (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.

UM_W3_Y_100cigs: Youth established cigarette smoker

Description: Youth 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 respondents[1]

Value	Unweighted frequency	%
0 = No	11,575	97.98
1 = Yes	209	1.77
Missing	30	0.24
Total	11,814	100

This variable has 11,784 valid cases out of 11,814 total cases.

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

UM_W3_Y_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[1]

- Mean: 0.37
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 2.94
- Never smoked or did not smoked in the past 30 days: 11,433
- Missing: 24

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

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_cigs1_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,433	96.78
1 = Yes	357	3.02
Missing	24	0.20
Total	11,814	100

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_cigs10_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,633	98.47
1 = Yes	157	1.33
Missing	24	0.20
Total	11,814	100

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_cigs25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,688	98.93
1 = Yes	102	0.86
Missing	24	0.20
Total	11,814	100

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

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_cigs1_past30_ESTD: Youth 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 respondents[1]

Value	Unweighted frequency	%
0 = No	11,626	98.41
1 = Yes	155	1.31
Missing	33	0.28
Total	11,814	100

This variable has 11,781 valid cases out of 11,814 total cases.

UM_W3_Y_cigs10_past30_ESTD: Youth 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 respondents[1]

Value	Unweighted frequency	%
0 = No	11,660	98.70
1 = Yes	121	1.02
Missing	33	0.28
Total	11,814	100

This variable has 11,781 valid cases out of 11,814 total cases.

UM_W3_Y_cigs25_past30_ESTD: Youth 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 respondents[1]

Value	Unweighted frequency	%

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

0 = No	11,695	98.99
1 = Yes	86	0.73
Missing	33	0.28
Total	11,814	100

This variable has 11,781 valid cases out of 11,814 total cases.

UM_W3_Y_cigs_perday_cat: 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[1]

Value	Unweighted frequency	%
0 = Not past 30 day smoker	11,433	96.78
1 = <1 cig/day	103	0.87
2 = 1 cig/day	70	0.59
3 = 2-5 cigs/day	121	1.02
4 = 6-10 cigs/day	40	0.34
5 = 11-20 cigs/day	19	0.16
6 = >20 cigs/day	8	0.07
Missing	20	0.17
Total	11,814	100

This variable has 11,794 valid cases out of 11,814 total cases.

UM_W3_Y_cig_menthol: Smoked cigarette(s) flavored to taste like menthol or mint in the past 30 days

Description: Indicator for respondents who smoked cigarettes flavored to taste like menthol or mint in the past 30 days.

Numerator: Number of current smokers who smoked cigarettes flavored to taste like menthol or mint in the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	120	1.02
1 = Yes	206	1.74
Missing	11,488	97.24
Total	11,814	100

This variable has 326 valid cases out of 11,814 total cases.

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

2. E-product Use Variables for PATH Youth Data (Wave 3)

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_W3_Y_eprods_reg: Youth regular e-product user

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,393	96.44
1 = Yes	391	3.31
Missing	30	0.25
Total	11,814	100

This variable has 11,784 valid cases out of 11,814 total cases.

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

UM_W3_Y_eprods_30day: In the past 30 days, number of days used e-products

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

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

Denominator: Total number of respondents[1]

- Mean: 0.29
- Median: 0.00
- Mode: 0
- Minimum: 0
- Maximum: 30
- Standard deviation: 2.26
- Never smoked or did not smoked in the past 30 days: 11,331
- Missing: 53

This variable has 11,761 valid cases out of 11,814 total cases.

UM_W3_Y_eprods1_past30: Youth e-product user - used at least 1 day in the past 30 days

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

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,331	95.91
1 = Yes	430	3.64
Missing	53	0.45
Total	11,814	100

This variable has 11,761 valid cases out of 11,814 total cases.

UM_W3_Y_eprods10_past30: Youth e-product user - used at least 10 days in the past 30 days

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,627	98.42
1 = Yes	134	1.13
Missing	53	0.45
Total	11,814	100

This variable has 11,761 valid cases out of 11,814 total cases.

UM_W3_Y_eprods25_past30: Youth e-product user - used at least 25 days in the past 30 days

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,718	99.19
1 = Yes	43	0.36
Missing	53	0.45
Total	11,814	100

This variable has 11,761 valid cases out of 11,814 total cases.

UM_W3_Y_eprod_anyflvr: Used flavored e-product(s) in the past 30 days

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

Description: Indicator for respondents who used e-products flavored to taste like tobacco, menthol, mint, clove, spice, fruit, chocolate, an alcoholic drink, a non-alcoholic drink, candy, desserts, sweets, or some other flavor in the past 30 days.

Numerator: Number of current e-product users who used e-products flavored to taste like tobacco, menthol, mint, clove, spice, fruit, chocolate, an alcoholic drink, a non-alcoholic drink, candy, desserts, sweets, or some other flavor in the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	0	0.00
1 = Yes	421	3.56
Missing	11,393	96.44
Total	11,814	100

This variable has 421 valid cases out of 11,814 total cases.

UM_W3_A_eprod_tobflvrd: Used e-product(s) flavored to taste like tobacco in the past 30 days

Description: Indicator for respondents who used e-products flavored to taste like tobacco in the past 30 days.

Numerator: Number of current e-product users who used e-products flavored to taste like tobacco in the past 30 days.

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	373	3.16
1 = Yes	48	0.41
Missing	11,393	96.44
Total	11,814	100

This variable has 421 valid cases out of 11,814 total cases.

UM_W3_Y_eprod_menthol: Used e-product(s) flavored to taste like menthol or mint in the past 30 days

Description: Indicator for respondents who used e-products flavored to taste like menthol or mint in the past 30 days.

Numerator: Number of current e-product users who used e-products flavored to taste like menthol or mint in the past 30 days.

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%

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

0 = No	343	2.90
1 = Yes	78	0.66
Missing	11,393	96.44
Total	11,814	100

This variable has 421 valid cases out of 11,814 total cases.

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

3. Other Combustible Product Use Variables for PATH Youth Data (Wave 3)

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_W3_Y_cigar_reg: Regular traditional cigar user

Description: Respondents who have smoked traditional cigars fairly regularly.

Numerator: Number of respondents who have smoked traditional cigars fairly regularly

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,747	99.43
1 = Yes	29	0.25
Missing	38	0.32
Total	11,814	100.00

This variable has 11,776 valid cases out of 11,814 total cases.

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

UM_W3_Y_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

Denominator: Total number of respondents[1]

- Mean: 0.02
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 30.00
- Standard deviation: 0.60
- Never smoked or did not smoked in the past 30 days: 11,762 (99.56%)
- Missing: 20 (0.17%)

This variable has 11,794 valid cases out of 11,814 total cases.

UM_W3_Y_cigar1_past30: Youth traditional cigar user - smoked at least 1 day in the past 30 days

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

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[1]

Value	Unweighted frequency	%
0 = No	11,762	99.56
1 = Yes	32	0.27
Missing	20	0.17
Total	11,814	100.00

This variable has 11,794 valid cases out of 11,814 total cases.

UM_W3_Y_ cigar10_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,786	99.76
1 = Yes	8	0.07
Missing	20	0.17
Total	11,814	100.00

This variable has 11,794 valid cases out of 11,814 total cases.

UM_W3_Y_ cigar25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,790	99.80
1 = Yes	4	0.03
Missing	20	0.17
Total	11,814	100.00

This variable has 11,794 valid cases out of 11,814 total cases.

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

UM_W3_Y_cigarillo_reg: Regular cigarillo user

Description: Respondents who have smoked cigarillos fairly regularly.

Numerator: Number of respondents who have smoked cigarillos fairly regularly

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,705	99.08
1 = Yes	56	0.47
Missing	53	0.45
Total	11,814	100.00

This variable has 11,761 valid cases out of 11,814 total cases.

UM_W3_Y_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

Denominator: Total number of respondents[1]

- Mean: 0.04
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 30.00
- Standard deviation: 0.85
- Never smoked or did not smoked in the past 30 days: 11,702 (99.05%)
- Missing: 21 (0.18%)

This variable has 11,793 valid cases out of 11,814 total cases.

UM_W3_Y_cigarillo1_past30: Youth 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 respondents[1]

Value	Unweighted frequency	%
0 = No	11,702	99.05
1 = Yes	91	0.77
Missing	21	0.18
Total	11,814	100.00

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

This variable has 11,793 valid cases out of 11,814 total cases.

UM_W3_Y_cigarillo10_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,776	99.68
1 = Yes	17	0.14
Missing	21	0.18
Total	11,814	100.00

This variable has 11,793 valid cases out of 11,814 total cases.

UM_W3_Y_cigarillo25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,786	99.76
1 = Yes	7	0.06
Missing	21	0.18
Total	11,814	100.00

This variable has 11,793 valid cases out of 11,814 total cases.

UM_W3_Y_filtcigar_reg: Regular filtered cigar user

Description: Respondents who have smoked filtered cigars fairly regularly.

Numerator: Number of respondents who have smoked filtered cigars fairly regularly

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,713	99.15
1 = Yes	41	0.35
Missing	60	0.51
Total	11,814	100.00

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

This variable has 11,754 valid cases out of 11,814 total cases.

UM_W3_Y_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

Denominator: Total number of respondents[1]

- Mean: 0.02
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 30.00
- Standard deviation: 0.65
- Never smoked or did not smoked in the past 30 days: 11,745 (99.42%)
- Missing: 24 (0.20%)

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_filtcigar1_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,745	99.42
1 = Yes	45	0.38
Missing	24	0.20
Total	11,814	100.00

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_ filtcigar10_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,778	99.70

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

1 = Yes	12	0.10
Missing	24	0.20
Total	11,814	100.00

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_ filtcigar25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,786	99.76
1 = Yes	4	0.03
Missing	24	0.20
Total	11,814	100.00

This variable has 11,790 valid cases out of 11,814 total cases.

UM_W3_Y_ 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

Denominator: Total number of respondents[1]

- Mean: 0.02
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 30.00
- Standard deviation: 0.63
- Never smoked or did not smoked in the past 30 days: 11,765 (99.59%)
- Missing: 23 (0.19%)

This variable has 11,791 valid cases out of 11,814 total cases.

UM_W3_Y_pipe1_past30: Youth 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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,765	99.59
1 = Yes	26	0.22
Missing	23	0.19
Total	11,814	100.00

This variable has 11,791 valid cases out of 11,814 total cases.

UM_W3_Y_pipe10_past30: Youth 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 respondents[1]

Value	Unweighted frequency	%
0 = No	11,783	99.74
1 = Yes	8	0.07
Missing	23	0.19
Total	11,814	100.00

This variable has 11,791 valid cases out of 11,814 total cases.

UM_W3_Y_pipe25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,787	99.77
1 = Yes	4	0.03
Missing	23	0.19
Total	11,814	100.00

This variable has 11,791 valid cases out of 11,814 total cases.

UM_W3_Y_hook_reg: Regular hookah user

Description: Respondents who have smoked hookah fairly regularly.

Numerator: Number of respondents who have smoked hookah fairly regularly

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,691	98.96
1 = Yes	94	0.80
Missing	29	0.25
Total	11,814	100.00

This variable has 11,785 valid cases out of 11,814 total cases.

UM_W3_Y_hook_past30day: Smoked hookah in the past 30 days

Description: Respondents who last smoked tobacco in a hookah, even one or two puffs, during the past 30 days.

Numerator: Number of respondents who smoked tobacco in a hookah during the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,724	99.24
1 = Yes	72	0.61
Missing	18	0.15
Total	11,814	100.00

This variable has 11,796 valid cases out of 11,814 total cases.

UM_W3_Y_hook_month: Average number of times smoked hookah in a month

Description: On average, how many times a respondent smoked hookah in the past month.

Numerator: Average number of times a respondent smoked hookah in the past month

Denominator: Total number of respondents[1]

- Mean: 0.12
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 390
- Standard deviation: 4.68
- Missing: 26 (0.22%)

This variable has 11,788 valid cases out of 11,814 total cases.

UM_W3_Y_hook1_month: Youth hookah user - smoked at least 1 time in the past month

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

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,733	99.31
1 = Yes	55	0.47
Missing	26	0.22
Total	11,814	100.00

This variable has 11,788 valid cases out of 11,814 total cases.

UM_W3_Y_hook10_month: Youth hookah user - smoked at least 10 times in the past month

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,767	99.60
1 = Yes	21	0.18
Missing	26	0.22
Total	11,814	100.00

This variable has 11,788 valid cases out of 11,814 total cases.

UM_W3_Y_hook25_month: Youth hookah user - smoked at least 25 times in the past month

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

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,778	99.70
1 = Yes	10	0.08
Missing	26	0.22
Total	11,814	100.00

This variable has 11,788 valid cases out of 11,814 total cases.

---

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

4. Smokeless Tobacco Use Variables for PATH Youth Data (Wave 3)

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_W3_Y_snus_reg: Regular snus pouch user

Description: Respondents who have used snus pouches fairly regularly.

Numerator: Number of respondents who have used snus pouches fairly regularly

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,669	98.77
1 = Yes	48	0.41
Missing	97	0.82
Total	11,814	100.00

This variable has 11,717 valid cases out of 11,814 total cases.

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

UM_W3_Y_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

Denominator: Total number of respondents[1]

- Mean: 0.02
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 30.00
- Standard deviation: 0.55
- Never smoked or did not smoked in the past 30 days: 11,760 (99.54%)
- Missing: 18 (0.15%)

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

This variable has 11,796 valid cases out of 11,814 total cases.

UM_W3_Y_snus1_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,760	99.54
1 = Yes	36	0.30
Missing	18	0.15
Total	11,814	100.00

This variable has 11,796 valid cases out of 11,814 total cases.

UM_W3_Y_snus10_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,787	99.77
1 = Yes	9	0.08
Missing	18	0.15
Total	11,814	100.00

This variable has 11,796 valid cases out of 11,814 total cases.

UM_W3_Y_ snus25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,794	99.83
1 = Yes	2	0.02
Missing	18	0.15
Total	11,814	100.00

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

This variable has 11,796 valid cases out of 11,814 total cases.

UM_W3_Y_slt_reg: Other smokeless tobacco product user

Description: Respondents who have used other smokeless tobacco products fairly regularly.

Numerator: Number of respondents who have used other smokeless tobacco products fairly regularly

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,605	98.23
1 = Yes	121	1.02
Missing	88	0.74
Total	11,814	100.00

This variable has 11,726 valid cases out of 11,814 total cases.

UM_W3_Y_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

Denominator: Total number of respondents[1]

- Mean: 0.13
- Median: 0.00
- Mode: 0.00
- Minimum: 0.00
- Maximum: 30.00
- Standard deviation: 1.73
- Never smoked or did not smoked in the past 30 days: 11,673 (98.81%)
- Missing: 30 (0.25%)

This variable has 11,784 valid cases out of 11,814 total cases.

UM_W3_Y_slt1_past30: Youth 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

---

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,673	98.81
1 = Yes	111	0.94
Missing	30	0.25
Total	11,814	100.00

This variable has 11,784 valid cases out of 11,814 total cases.

UM_W3_Y_slt10_past30: Youth 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 respondents[1]

Value	Unweighted frequency	%
0 = No	11,728	99.27
1 = Yes	56	0.47
Missing	30	0.25
Total	11,814	100.00

This variable has 11,784 valid cases out of 11,814 total cases.

UM_W3_Y_ slt25_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No	11,751	99.47
1 = Yes	33	0.28
Missing	30	0.25
Total	11,814	100.00

This variable has 11,784 valid cases out of 11,814 total cases.

---

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

UM_W3_Y_dissolve_past30D: Youth dissolvable tobacco product user – used dissolvable tobacco products in the past 30 days

Description: Respondents who have used dissolvable tobacco products, even one or two times, in the past 30 days.

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

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = No	11,800	99.88
1 = Yes	4	0.03
Missing	10	0.08
Total	11,814	100.00

This variable has 11,804 valid cases out of 11,814 total cases.

---

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

5. Single, Dual, Poly Use Variables for PATH Youth Data (Wave 3)

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.

5.1 16 Category Variable for Tobacco Use Pattern (1+ Day Definition)

UM_W3_Y_combust1_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No*	11,600	98.19
1 = Yes	210	1.78
Missing	4	0.03
Total	11,814	100.00

This variable has 11,810 valid cases out of 11,814 total cases.
* Including people with missing values, as long as they responded 'NO' to at least one product.

UM_W3_Y_sltgroup1_past30: Youth 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[1]

Value	Unweighted frequency	%
0 = No*	11,684	98.90
1 = Yes	123	1.04
Missing	7	0.06
Total	11,814	100.00

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

This variable has 11,807 valid cases out of 11,814 total cases.
* Including people with missing values, as long as they responded 'NO' to at least one product.

UM_W3_Y_pop_poly_1_past30: Youth tobacco product user – used at least 1 day in the past 30 days (all cigarette smokers / any use of other tobacco products)

Description: Population patterns of single, dual and poly-use among cigarette users and users of e-products, 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[1]

Value	Unweighted frequency	%
0 = Never user	10,969	92.85
1 = Cigarettes only user	136	1.15
2 = E-products only user	244	2.07
3 = Other combustibles (OC) only user	68	0.58
4 = Smokeless (SLT) only user	58	0.49
5 = Cigarettes and e-products user	87	0.74
6 = Cigarettes and OC user	54	0.46
7 = Cigarettes and SLT user	14	0.12
8 = E-products and OC user	26	0.22
9 = E-products and SLT user	16	0.14
10 = OC and SLT user	6	0.05
11 = Cigarettes, e-products and OC user	35	0.30
12 = Cigarettes, e-products and SLT user	8	0.07
13 = Cigarettes, OC and SLT user	6	0.05
14 = E-products, OC and SLT user	4	0.03
15 = Cigarettes, e-products, OC and SLT user	8	0.07
Missing	75	0.63
Total	11,814	100.00

This variable has 11,739 valid cases out of 11,814 total cases.

UM_W3_Y_pop_poly_1_past30_ESTC: Youth tobacco product user – used at least 1 day in the past 30 days (established cigarette smokers / any use of other tobacco products)

Description: Population patterns of single, dual and poly-use among established cigarette users and any users of e-products, 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[1]

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

Value	Unweighted frequency	%
0 = Never user*	11,049	93.52
1 = Cigarettes only user	47	0.40
2 = E-products only user	294	2.49
3 = Other combustibles (OC) only user	97	0.82
4 = Smokeless (SLT) only user	66	0.56
5 = Cigarettes and e-products user	37	0.31
6 = Cigarettes and OC user	25	0.21
7 = Cigarettes and SLT user	6	0.05
8 = E-products and OC user	43	0.36
9 = E-products and SLT user	20	0.17
10 = OC and SLT user	7	0.06
11 = Cigarettes, e-products and OC user	18	0.15
12 = Cigarettes, e-products and SLT user	5	0.04
13 = Cigarettes, OC and SLT user	5	0.04
14 = E-products, OC and SLT user	5	0.04
15 = Cigarettes, e-products, OC and SLT user	7	0.06
Missing	83	0.70
Total	11,814	100.00

This variable has 11,731 valid cases out of 11,814 total cases.

* Never established cigarette users and never users of other tobacco products.

5.2 States for Transition Analysis Based on Current Use

UM_W3_Y_states_1_past30: Youth tobacco product user – used at least 1 day in the past 30 days (all cigarette smokers / any use of other tobacco products)

Description: States for transition analysis based on current use among all cigarette smokers and all users of other tobacco products.

Numerator: Number of respondents who use [VALUE] 1+ days in the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = Never user	9,232	78.14
1 = Former user of any product	1,737	14.70
2 = Cigarettes only user	136	1.15
3 = E-products only user	244	2.07
4 = Other combustibles (OC) only user	68	0.58
5 = Smokeless (SLT) only user	58	0.49
6 = Cigarettes and e-products user	87	0.74
7 = Cigarettes and OC user	54	0.46

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

8 = Cigarettes and SLT user	14	0.12
9 = Poly user with cigarettes (cigs, e-prods and OC; cigs, e-prods and SLT; cigs, OC and SLT; cigs, e-prods, OC and SLT)	57	0.48
10 = Other dual/poly-user without cigarettes (e-prods and OC; e-prods and SLT; OC and SLT; e-prods, OC and SLT)	52	0.44
Missing	75	0.63
Total	11,814	100.00

This variables has 11,739 valid cases out of 11,814 total cases

---

UM_W3_Y_states_1_past30_ESTC: States for transition analysis – established cigarette use / any use of other tobacco products

Description: States for transition analysis based on current use among established cigarette smokers and all users of other tobacco products.

Numerator: Number of respondents who use [VALUE] 1+ days in the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = Never user*	9,444	79.94
1 = Former user of any product	1,605	13.59
2 = Cigarettes only user	47	0.40
3 = E-products only user	294	2.49
4 = Other combustibles (OC) only user	97	0.82
5 = Smokeless (SLT) only user	66	0.56
6 = Cigarettes and e-products user	37	0.31
7 = Cigarettes and OC user	25	0.21
8 = Cigarettes and SLT user	6	0.05
9 = Poly user with cigarettes (cigs, e-prods and OC; cigs, e-prods and SLT; cigs, OC and SLT; cigs, e-prods, OC and SLT)	35	0.30
10 = Other dual/poly-user without cigarettes (e-prods and OC; e-prods and SLT; OC and SLT; e-prods, OC and SLT)	75	0.63
Missing	83	0.70
Total	11,814	100.00

This variables has 11,731 valid cases out of 11,814 total cases
* Never established cigarette users and never users of other tobacco products.

UM_W3_Y_states_EF_1_past30: Youth tobacco product user – used at least 1 day in the past 30 days (all cigarette smokers / any use of other tobacco products)

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

Description: States for transition analysis based on current use among all cigarette smokers and all users of other tobacco products. Dual and poly users grouped by current e-product use.

Numerator: Number of respondents who use [VALUE] 1+ days in the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = Never user	9,232	78.14
1 = Former user of any product	1,737	14.70
2 = Cigarettes only user	136	1.15
3 = E-products only user	244	2.07
4 = Other combustibles (OC) only user	68	0.58
5 = Smokeless (SLT) only user	58	0.49
6 = Cigarettes and e-products user	87	0.74
7 = E-products and OC user	26	0.22
8 = E-products and SLT user	16	0.14
9 = Poly user with e-products (cigs, e-prods and OC; cigs, e-prods and SLT; e-prods, OC and SLT; cigs, e-prods, OC and SLT)	55	0.47
10 = Other dual/poly-user without e-products (cigs and OC; cigs and SLT; OC and SLT; cigs, OC and SLT)	80	0.68
Missing	75	0.63
Total	11,814	100.00

This variables has 11,739 valid cases out of 11,814 total cases

---

UM_W3_Y_states_EF_1_past30_ESTC: States for transition analysis – established cigarette use / any use of other tobacco products

Description: States for transition analysis based on current use among established cigarette smokers and all users of other tobacco products. Dual and poly users grouped by current e-product use.

Numerator: Number of respondents who use [VALUE] 1+ days in the past 30 days

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = Never user*	9,444	79.94
1 = Former user of any product	1,605	13.59
2 = Cigarettes only user	47	0.40
3 = E-products only user	294	2.49
4 = Other combustibles (OC) only user	97	0.82
5 = Smokeless (SLT) only user	66	0.56
6 = Cigarettes and e-products user	37	0.31
7 = E-products and OC user	43	0.36
8 = E-products and SLT user	20	0.17

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

9 = Poly user with e-products (cigs, e-prods and OC; cigs, e-prods and SLT; e-prods, OC and SLT; cigs, e-prods, OC and SLT)	35	0.30
10 = Other dual/poly-user without e-products (cigs and OC; cigs and SLT; OC and SLT; cigs, OC and SLT)	43	0.36
Missing	83	0.70
Total	11,814	100.00

This variables has 11,731 valid cases out of 11,814 total cases
* Never established cigarette users and never users of other tobacco products.

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

6. Demographic Variables for PATH Youth Data (Wave 3)

Note about missing values for all indicators: In PATH, many of the questions depend on the ability to classify individuals by tobacco product use status, any respondents who are unable ("Don't Know") or unwilling ("Refused") to provide an answer or requested their data to be removed should be excluded from the calculation of the indicators below.

UM_W3_Y_agegrp: Age range of youth respondents when interviewed

Description: The age (in years) of youth respondents at the time of interview.

Numerator: Number of respondents who were [VALUE] at the time of interview

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
1 = 12 to 14	6,002	50.80
2 = 15 to 17	5,812	49.20
Missing	0	0.00
Total	11,814	100.00

This variable has 11,814 valid cases out of 11,814 total cases.

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

UM_W3_Y_male: Gender of youth respondents

Description: Gender of youth respondents.

Numerator: Number of respondents who are [VALUE]

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
0 = Female	5,677	48.05
1 = Male	6,104	51.67
Missing	33	0.28
Total	11,814	100.00

This variable has 11,781 valid cases out of 11,814 total cases.

UM_W3_Y_RE: Race/ethnicity of youth respondents

Description: Race/ethnicity of youth respondents.

Numerator: Number of respondents who are [VALUE]

Denominator: Total number of respondents[1]

---

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

Value	Unweighted frequency	%
1 = Hispanic	3,444	29.15
2 = Non-Hispanic White	5,342	45.22
3 = Non-Hispanic Black	1,518	12.85
4 = Non-Hispanic Other	1,099	9.30
Missing	411	3.48
Total	11,814	100.00

This variable has 11,403 valid cases out of 11,814 total cases.

UM_W3_Y_educat: Grade level of youth respondents

Description: Grade level youth respondents are in or will be in when returning to school if on a holiday or break.

Numerator: Number of respondents who are or will be in [VALUE]

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
1 = 6th grade or below	755	6.39
2 = 7th grade	1,810	15.32
3 = 8th grade	1,879	15.90
4 = 9th grade	1,904	16.12
5 = 10th grade	1,886	15.96
6 = 11th grade	1,788	15.13
7 = Other	1,735	14.69
Missing	57	0.48
Total	11,814	100.00

This variable has 11,757 valid cases out of 11,814 total cases.

UM_W3_Y_incomecat: Total household income in past 12 months

Description: Total income in the past 12 months, before taxes, of all persons in the youth respondent's household.

Numerator: Number of respondents whose total household income was [VALUE] in the past 12 months

Denominator: Total number of respondents[1]

Value	Unweighted frequency	%
1 = Less than $50,000	5,495	46.51
2 = $50,000 to $99,999	2,839	24.03
3 = More than $100,000	2,700	22.85
Missing	780	6.60
Total	11,814	100.00

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

This variable has 11,034 valid cases out of 11,814 total cases.

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