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| **About the Measure** |
| **Protocol Id** | 710302 |
| **Domain:** | Tobacco Regulatory Research - Host: Social/Cognitive  |
| **Measure:** | Susceptibility to Smoking Cigarettes  |
| **Definition:** | These questions address susceptibility to smoking cigarettes.  |
| **Purpose:** | To determine adolescent susceptibility to use cigarettes.  |
| **Essential PhenX Protocols:** | Current Age [10101]Sex Assigned at Birth [11601]Gender Identity [11801]Cigarette Smoking Status - Adolescent [30603]  |
| **Related PhenX Protocols:** | Peer/Partner Substance Use and Tolerance of Substance Use [540401]Peer/Partner Substance Use and Tolerance of Substance Use [540402]  |
| **Measure Release Date:** | February 20, 2015  |

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| **About the Protocol** |
| **Protocol Release Date:** | November 21, 2016  |
| **Protocol Review Date:** | November 21, 2016  |
| **PhenX Protocol Name:** | Susceptibility to Tobacco Products  |
| **Keywords:** | susceptibility to tobacco products; Intention; use; smoking susceptibility; smoking; smoking status; smoking onset; adolescents; peer influence  |
| **Description:** | This 27-item instrument is used to predict whether adolescents or young adults, who never used tobacco, are likely to start. Item responses are on a 4-point Likert scale and include "refused" and "don’t know" options. |
| **Specific Instructions:** | **Gateway question, "Smoking Status" PhenX Toolkit measure must be asked first. Proceed with this protocol only if subject has never smoked.** |
| **Protocol:** | 1. If one of your friends offered you a cigarette, would you smoke it?

[ ] Definitely Yes[ ] Probably Yes[ ] Probably Not[ ] Definitely Not1. At any time during the next 12 months, do you think you will smoke a cigarette?

[ ] Definitely Yes[ ] Probably Yes[ ] Probably Not[ ] Definitely Not1. Do you think you will be smoking cigarettes 5 years from now?

[ ] Definitely Yes[ ] Probably Yes[ ] Probably Not[ ] Definitely NotCigarettes1. Have you ever been curious about smoking a cigarette?

[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED5. Do you think that you will try a cigarette soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED6. If one of your best friends were to offer you a cigarette, would you smoke it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED*Expanded to Other Products*Electronic Nicotine Products7. Have you ever been curious about using an electronic nicotine product? (Electronic nicotine products include e-cigarettes, vape pens, hookah pens, personal vaporizers and mods, e-cigars, e-pipes, and e-hookahs.)[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED8. Do you think that you will try an electronic nicotine product soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED9. If one of your best friends were to offer you an electronic nicotine product, would you try it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSEDCigars (Traditional, Cigarillos, Filtered)10. Have you ever been curious about smoking a traditional cigar?[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED11, Do you think that you will try a traditional cigar soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED12. If one of your best friends were to offer you a traditional cigar, would you smoke it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED13, Have you ever been curious about smoking a cigarillo?[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED14 Do you think that you will try a cigarillo soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED15. If one of your best friends were to offer you a cigarillo, would you smoke it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED16. Have you ever been curious about smoking a filtered cigar?[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED17. Do you think that you will try a filtered cigar soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED18, If one of your best friends were to offer you a filtered cigar, would you smoke it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSEDPipe19. Have you ever been curious about smoking a pipe filled with tobacco?[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED20. Do you think that you will try smoking a pipe filled with tobacco soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED21. If one of your best friends were to offer you a pipe filled with tobacco, would you smoke it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSEDHookah22. Have you ever been curious about smoking tobacco in a hookah?[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED23. Do you think that you will try smoking tobacco in a hookah soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED24. If one of your best friends were to offer you a hookah, would you try it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSEDSmokeless Tobacco25. Have you ever been curious about using smokeless tobacco?[ ] 1 Very curious[ ] 2 Somewhat curious[ ] 3 A little curious[ ] 4 Not at all curious[ ] -8 DON’T KNOW[ ] -7 REFUSED26. Do you think that you will try smokeless tobacco soon?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSED27. If one of your best friends were to offer you smokeless tobacco, would you try it?[ ] 1 Definitely yes[ ] 2 Probably yes[ ] 3 Probably not[ ] 4 Definitely not[ ] -8 DON’T KNOW[ ] -7 REFUSEDScoring:Respondents who are currently not tobacco product users and answered "definitely not" to all three questions were coded as *nonsusceptible*, and all other students were labeled as *susceptible to using tobacco products*. |
| **Selection Rationale:** | The first three items come from the Pierce instrument, a well-established protocol that is available in the public domain and was previously evaluated through the National Cancer Institute Measures Guide for Youth Tobacco Research. It is used for adolescents across gender and race/ethnicity and requires no training or equipment to administer. The three-item version of the scale has also been used to predict smoking among young adults, including military recruits. The scale has high reliability. The remaining 24 items (items 4-27 below) come from the Population Assessment of Tobacco and Health (PATH) Study, a national longitudinal study of tobacco use and how it affects the health of people in the United States. These items expand the Pierce protocol to tobacco products other than cigarettes. |
| **Source:** | Pierce, J. P., Choi, W. S., Gilpin, E. A., Farkas, A. J., & Merritt, R. K. (1996). Validation of susceptibility as a predictor of which adolescents take up smoking in the United States. *Health Psychology, 15*, 355-361.National Institutes of Health, U.S. Food and Drug Administration. (2015). Population Assessment of Tobacco and Health (PATH) Study: Attachment 2 PATH Study Data Collection Instruments\_Wave 3: 2a.5 - English Youth: Aged-Up Extended Interview, 2015-06-10. Bethesda, MD: National Institutes of Health. [http://www.reginfo.gov/public/do/PRAICList?ref\_nbr=201506-0925-002] |
| **Language** | EnglishOther languages available at source  |
| **Participant:** | Adolescents who never used tobacco, aged 12-17 years. |
| **Personnel and Training Required:** | None |
| **Equipment Needs:** | None |
| **Standards** |  |
| **General References:** | . Choi, W. S., Gilpin, E. A., Farkas, A. J., & Pierce, J. P. (2001) Determining the probability of future smoking among adolescents. *Addiction*, *96*, 313-323.Pierce, J, P., Choi, W. S., Gilpin, E. A., Farkas, A. J., & Berry, C. C. (1988). Tobacco industry promotion of cigarettes and adolescent smoking. *Journal of the American Medical Association*, *279*, 511-515.Pierce, J. P., Choi, W. S., Gilpin, E. A., Farkas, A. J., & Merritt, R. K. (1996). Validation of susceptibility as a predictor of which adolescents take up smoking in the United States. *Health Psychology, 15*, 355-361.Pierce, J. P., Distefan, J. M., Jackson, C., White, M. M., & Gilpin, E. A. (2002). Does tobacco marketing undermine the influence of recommended parenting in discouraging adolescents from smoking? *American Journal of Preventive Medicine*, *23*, 73-81.Pierce, J. P., Farkas, A. J., Evans, N., & Gilpin, E. (1995). An improved surveillance measure for adolescent smoking? *Tobacco Control*, *4*, S47-S56.Sargent, J. D., Dalton, M., Beach. M., Bernhardt, A., Heatherton, T., & Stevens, M. (2000). Effect of cigarette promotions on smoking uptake among adolescents. *Preventive Medicine*, *30*, 320-327.  |
| **Mode of Administration:** | Self-administered questionnaire  |
| **Derived Variables:** | None |
| **Requirements:** |

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| **Requirement Category** | **Required (Yes/No)** |
| **Major equipment** | No |
| **Specialized training** | No |
| **Specialized requirements for biospecimen collection** | No |
| **Average time of greater than 15 minutes in an unaffected individual** | No |

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| **Annotations for Specific Conditions:** | None |
| **Process and Review:** | The [link[phenxtoolkit.org/about/teams#erp3-members|Expert Review Panel #3]] (ERP 3) reviewed the measures in Alcohol, Tobacco and Other Substances, and Substance Abuse and Addiction domains. Guidance from ERP 3 includes:• Changed name of Measure • Updated protocol • New Data Dictionary Back-compatible: Not back-compatible (vastly different than previous protocol which would require a new data dictionary) and not recommended for use (discredited or no longer considered broadly validated)Previous version in Toolkit archive ([link[www.phenxtoolkit.org/domains/view/710000#tab5content|link]]) |