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| **Domain:** | Substance-specific Intermediate Phenotypes |
| **Measure:** | Expectancies - Alcohol, Tobacco, and Other Substances |
| **Definition:** | Instruments used separately to assess expectations of the positive and negative effects of drinking alcohol, smoking cigarettes, using marijuana, using illegal stimulant drugs, or misusing prescription stimulant drugs. |
| **Purpose:** | These five self-reported questionnaires separately assess expectations of drinking alcohol, smoking cigarettes, using marijuana, using illegal stimulant drugs, or misusing prescription stimulant drugs, by asking the respondents about possible consequences of such actions. |
| **Essential PhenX Measures:** | Current Age Gender |
| **Related PhenX Measures:** | Alcohol - 30-Day Quantity and Frequency Alcohol - Lifetime Use Substances - 30-Day Frequency Substances - Lifetime Use Tobacco - 30-Day Quantity and Frequency Tobacco - Smoking Status |
| **Collections:** | Attitudes and Beliefs Substance-specific Intermediate Phenotypes |
| **Keywords:** | Adderall®, Adolescent, Adult, Alcohol, Amphetamine, B-CEOA, Brief Comprehensive Effects of Alcohol Questionnaire, Cigarette, Cocaine, Concerta®, CEEQ, Cocaine Effect Expectancy Questionnaire, Dexedrine®, Dextroamphetamine, Drugs, Marijuana, Marijuana Effect Expectancy Questionnaire, MEEQ, Methylphenidate, Prescription stimulant expectancy questionnaire, PSEQ, Ritalin®, SAA, SCQ, SEEQ, Smoking, Smoking Consequences Questionnaire, Stimulant Effect Expectancy Questionnaire, Substance-specific Intermediate Phenotypes |

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| **Protocol Release Date:** | February 24, 2012 |
| **PhenX Protocol Name:** | Expectancies - Alcohol, Tobacco, and Other Substances - Marijuana |
| **Protocol Name from Source:** | The Expert Review Panel has not reviewed this measure yet. |
| **Description:** | The Marijuana Effect Expectancy Questionnaire (MEEQ) contains 78 items that describe the effects of marijuana on respondents. Respondents are asked to rate their experiences on a 5-point Likert scale to indicate agreement or disagreement. The MEEQ has 6 scales (6–13 items per scale) - Cognitive and Behavioral Impairment, Relaxation and Tension Reduction, Social and Sexual Facilitation, Perceptual and Cognitive Enhancement, Global Negative Effects, and Craving and Physical Effects. A shorter version of the MEEQ contains 48 items across the same 6 scales (6–10 items per scale). |
| **Specific Instructions:** | The Substance Abuse and Addiction Working Group acknowledges that the following questions may gather sensitive information relating to the use of substances and/or illegal conduct. If the information is released, it might be damaging to an individual's employability, lead to social stigmatization, or lead to other consequences.  Most researchers assure confidentiality as part of their informed consent process, as required by their institutional review boards. When assessing minors with these questions, it may be necessary to obtain informed consent from a parent of the adolescent. Further assurance of confidentiality may be obtained by applying to the National Institutes of Health (NIH) for a Certificate of Confidentiality, which helps researchers protect the privacy of human research participants. The procedures for the Certificate of Confidentiality can be found at the Grants Policy website of the NIH: http://grants1.nih.gov/grants/policy/coc/index.htm. |
| **Protocol:** | *The following questions ask about the effects of marijuana. Read each question carefully and respond according to your own personal thoughts, feelings, and beliefs about marijuana now. We are interested in what you think about marijuana, regardless of what other people might think. Whether or not you have had actual experiences with marijuana, you are to answer in terms of your beliefs about marijuana. It is important that you answer every question. There are no right or wrong answers.*  *Please be honest. Remember, your answers are confidential. Respond to these items according to what you personally believe to be true about a moderate amount of marijuana - however you define moderate.*  *If you have never used marijuana, answer according to how you think it would affect you if did use it.*  *Select a number which shows how much you agree or disagree with each item:*  *There are no right or wrong answers.*  1. Marijuana makes small things seem intensely interesting.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  2. Smoking marijuana makes me hungry.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  3. Smoking marijuana increases my craving for things.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  4. I get a sense of relaxation from smoking marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  5. Smoking marijuana makes me less tense or relieves anxiety; it helps me to unwind.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  6. Marijuana makes me carefree, and I do not care about my problems as much.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  7. I am not concerned about how others evaluate me when I am on marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  8. Marijuana makes me talk more than usual.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  9. I feel like I can focus on one thing better when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  10. When I smoke marijuana I do not feel insecure.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  11. Marijuana makes me say things I do not mean.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  12. I am more sociable when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  13. Smoking marijuana makes me feel like part of the group.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  14. If I have been smoking marijuana, it is harder for me to concentrate and understand the meaning of what is being said.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  15. Marijuana slows thinking and actions.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  16. I become more creative or imaginative on marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  17. If I have been smoking marijuana it is harder to remember things.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  18. Things seem unreal and I feel out of touch with what is going on around me when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  19. When I smoke marijuana it helps me escape reality.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  20. Marijuana makes me giggly and laugh a lot.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  21. When I smoke marijuana I feel like I have heavy feet and no coordination.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  22. Music sounds different when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  23. Marijuana tastes and smells bad.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  24. I have a happy, good feeling when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  25. Marijuana causes me to lose control and become careless.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  26. Marijuana makes it easier to escape from problems and responsibilities.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  27. I am less motivated when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  28. Marijuana can cause me to become depressed and disappointed with myself.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  29. Marijuana causes euphoria (strong sense of well-being).  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  30. Marijuana can make my feelings change from happy to sad.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  31. I act excited when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  32. Marijuana does not make me feel more romantic or attracted to members of the opposite sex.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  33. After smoking marijuana my eyelids feel heavy and I become drowsy.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  34. Marijuana can make me angry and possibly violent.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  35. After the "high" of smoking marijuana, I feel down.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  36. Marijuana does not alter my personality.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  37. I feel sexy or more interested in sex after smoking marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  38. Marijuana makes me critical and short-tempered.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  39. I get the "munchies" (craving for snacks) when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  40. It is difficult for me to express my thoughts clearly if I have been smoking marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  41. Marijuana makes my mouth seem dry.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  42. Marijuana makes me calm.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  43. Marijuana changes my perception of time and distance.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  44. I am more relaxed in social situations if I have been smoking marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  45. I have a better time at parties if I am smoking marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  46. Marijuana makes reaction times slower.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  47. I am more willing to do things that I normally would not do when I smoke marijuana.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  48. Smoking marijuana is similar to being "high" from drinking alcohol.  1 [ ] DISAGREE STRONGLY  2 [ ] DISAGREE SOMEWHAT  3 [ ] UNCERTAIN  4 [ ] AGREE SOMEWHAT  5 [ ] AGREE STRONGLY  **Scoring Procedure and Interpretation**  The 48 items of the Marijuana Effect Expectancy Questionnaire (MEEQ) comprise the following 6 scales (Aarons et al., 2001):  (1) Cognitive and Behavioral Impairment: items 14, 15, 17, 18, 21, 33, 36\*, 40, 43, and 46  (2) Relaxation and Tension Reduction: items 4, 5, 6, 7, 10, 26, 42, and 44  (3) Social and Sexual Facilitation: items 8, 12, 13, 24, 27\*, 31, 32\*, 45, and 47  (4) Perceptual and Cognitive Enhancement: items 1, 9, 16, 19, 22, 26, 29, and 37  (5) Global Negative Effects: items 11, 23, 25, 28, 30, 34, 35, 38, and 48  (6) Craving and Physical Effects: items 2, 3, 20, 33, 39, and 41  The score for each scale is calculated by averaging the item scores, i.e., totaling the item scores and dividing by the number of items in the scale. Each item is scored on a 1 to 5 scale (Disagree Strongly = 1 and Agree Strongly = 5), except the items marked with an asterisk (\*) which should be reverse-scored (Strongly Disagree = 5 and Strongly Agree = 1). Of note, item 26 appears on scales 2 and 4, and item 33 appears on scales 1 and 6. The scoring scheme reflects factors identified in the original publications. Factor structure may differ in individual studies. |
| **Selection Rationale:** | The 48-item Marijuana Effect Expectancy Questionnaire (MEEQ) is a psychometrically sound instrument. Internal consistency is generally good for both adolescents and adults, and test-retest coefficients over a two-year period are moderate. |
| **Source:** | Aarons, G. A., Brown, S. A., Stice, E., & Coe, M. T. (2001). Psychometric evaluation of the marijuana and stimulant effect expectancy questionnaires for adolescents. *Addictive Behaviors,* *26*(2), 219–236.  Schafer, J., & Brown, S. A. (1991). Marijuana and cocaine effect expectancies and drug use patterns. *Journal of Consulting and Clinical Psychology,* *59*(4), 558–565. |
| **Life Stage:** | Adult Senior Adolescent |
| **Language of source:** | English |
| **Participant:** | Adolescents and adults aged 13 years and older |
| **Personnel and Training Required:** | None |
| **Equipment Needs:** | None |
| **Standards:** | |  |  |  |  | | --- | --- | --- | --- | | **Standard** | **Name** | **ID** | **Source** | | Common Data Element (CDE) | Marijuana Effect Expectancy Questionnaire (MEEQ) Assessment Score | 3332497 | [CDE Browser](https://cdebrowser.nci.nih.gov/CDEBrowser/search?elementDetails=9&FirstTimer=0&PageId=ElementDetailsGroup&publicId=3332497&version=1.0) | |
| **General references:** | Galen, L. W., & Henderson, M. J. (1999). Validation of cocaine and marijuana effect expectancies in a treatment setting. *Addictive Behaviors,* *24*(5), 719–724.  Hayaki, J., Hagerty, C. E., Herman, D. S., de Dios, M. A., Anderson, B. J., & Stein, M. D. (2010). Expectancies and marijuana use frequency and severity among young females*. Addictive Behaviors, 35*(11), 995–1000. |
| **Mode of Administration:** | Self-administered questionnaire |
| **Derived Variables:** | None |
| **Requirements:** | |  |  | | --- | --- | | **Requirement Category** | **Required** | | Major equipment | No | | Specialized training | No | | Specialized requirements for biospecimen collection | No | | Average time of greater than 15 minutes in an unaffected individual | No | |
| **Process and Review:** | The Expert Review Panel has not reviewed this measure yet. |