



## Data Collection Worksheet

**Please Note:** The Data Collection Worksheet (DCW) is a tool to aid integration of a PhenX protocol into a study. The PhenX DCW is not designed to be a data collection instrument. Investigators will need to decide the best way to collect data for the PhenX protocol in their study. Variables captured in the DCW, along with variable names and unique PhenX variable identifiers, are included in the PhenX Data Dictionary (DD) files.

### Section 3A - Tobacco Use

Column a		Column b
<p><b>8a. The next few questions are about experiences that many people have had with using tobacco, including cigarettes, cigars, a pipe, snuff, or chewing tobacco. As I read each experience, please tell me if it has EVER happened to you as a result of using ANY of these types of tobacco.</b></p> <p><b>In your ENTIRE LIFE, did you EVER...(PAUSE)</b></p> <p><i>(Repeat phrase frequently)</i></p>		<p><b>b. Did this happen in the last 12 months?</b></p>
<p><b>(1) More than once want to cut down on your tobacco use?</b></p>	<p>1 <input type="checkbox"/> Yes →</p> <p>2 <input type="checkbox"/> No - <i>Go to next experience</i></p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p><a href="#">[s3aq8b1]</a></p>
<p><b>(2) Give up or cut down on activities that you were interested in or that gave you pleasure because tobacco use was not permitted at the activity?</b></p>	<p>1 <input type="checkbox"/> Yes →</p> <p>2 <input type="checkbox"/> No - <i>Go to next experience</i></p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p><a href="#">[s3aq8b2]</a></p>
<p><b>(3) Give up or cut down on activities that were important to you – like associating with friends</b></p>	<p>1 <input type="checkbox"/> Yes →</p> <p>2 <input type="checkbox"/> No - <i>Go to next</i></p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>

or relatives or attending social activities - because tobacco use was not permitted at the activity?	experience	<a href="#">[s3aq8b3]</a>
(4) Continue to use tobacco even though you knew it was causing you a health problem or making a health problem worse?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b4]</a>
(5) Find yourself (chain smoking/using one pinch or plug of snuff or chewing tobacco right after another)?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b5]</a>
(6) More than once try to stop or cut down on your tobacco use but found you couldn't do it?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b6]</a>
(7) Many people experience problems on occasions when they stop or cut down on their tobacco use.  After stopping or cutting down on your tobacco use, did you EVER...		
(a) Feel depressed?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7a]</a>
(b) Have difficulty falling asleep or staying asleep?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7b]</a>
(c) Have difficulty concentrating?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next	1 <input type="checkbox"/> Yes

	experience	2 <input type="checkbox"/> No <a href="#">[s3aq8b7c]</a>
(d) Eat more than usual or gain weight?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7d]</a>
(e) Become easily irritated, angry, or frustrated?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7e]</a>
(f) Feel anxious or nervous?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7f]</a>
(g) Feel your heart beating more slowly than usual?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to next experience	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7g]</a>
(h) Feel more restless than usual?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - Go to Check Item 3.4	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7h]</a>
<b>CHECK ITEM 3.4</b> Are at least 2 items marked "Yes" in column b, 7(a) - 7(h)?	1 <input type="checkbox"/> Yes - Go to 7(i) 2 <input type="checkbox"/> No - SKIP to (8)	
(i) You just mentioned that you had some experiences after stopping or cutting down on your tobacco use in the last 12 months. Were any of these experiences very uncomfortable or upsetting to you or did they cause problems in your life — like at work or school or with family or friends?		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7i]</a>

(j) Did you use tobacco in the last 12 months to keep from having any of these experiences?		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b7j]</a>
(8) Wake up in the middle of the night to use tobacco?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next experience</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b8]</a>
(9) Often use tobacco just after getting up or shortly after getting up in the morning?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next experience</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b9]</a>
(10) Find yourself using tobacco JUST AFTER being in a situation where tobacco use was not permitted - like after being on a plane, at a meeting, or shopping at the mall?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next experience</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b10]</a>
(11) Find that you had to use much more tobacco than you once did to get the effect you wanted?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next experience</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b11]</a>
(12) Increase your use of tobacco by at least 50 percent?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next experience</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b12]</a>
(13) Have a period when you often used tobacco more than you intended to?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next experience</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No <a href="#">[s3aq8b13]</a>
(14) Continue to use tobacco even though it made you nervous,	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No - <i>Go to next</i>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No

jittery, anxious, or depressed?	experience	[s3aq8b14]
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## Scoring Procedure and Interpretation

The scoring algorithms were reverse-engineered and further validated by members of the Substance Abuse and Addiction Scientific Panel and Working Group, and the results from the algorithms were found to match\* the nicotine dependence diagnoses reported in the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC) (Saha et al., 2010; Muthen & Asparouhov, 2006).

The variable names used in the following SAS code for nicotine dependence diagnosis correspond to the variable names shown in blue from the protocol text. The algorithms are derived from published work by NESARC investigators (Grant et al., 2004), and they are provided to assist with derivation of estimates from NESARC.

The SAS code creates NESARC-compatible dichotomous variables (with values 0 = negative and 1 = positive) for past-year nicotine dependence diagnostic criteria (p12tolerance, p12withdrawal\_v2, p12intend, p12quit, p12giveup, p12time, and p12problems) and past-year nicotine dependence diagnosis (dsm4depend\_p12). The nicotine withdrawal algorithm, shown below as p12withdrawal\_v2, may not directly relate to withdrawal based on the *Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition (DSM-IV)* (American Psychiatric Association, 1994). All other diagnostic criteria algorithms are directly based on *DSM-IV*. Nicotine withdrawal according to Criterion B of *DSM-IV* (American Psychiatric Association, 1994) may be captured by using p12withdrawal\_dsm alone.

\* For p12tolerance, a 1% difference was noted between the publication (Saha et al., 2010) and the reverse-engineered algorithm results.

## SAS code

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*****Dependence items*****;

p12tolerance = (s3aq8b11=1) or (s3aq8b12=1);

p12withdrawal_total =
((s3aq8b7a=1)+(s3aq8b7b=1)+(s3aq8b7c=1)+(s3aq8b7d=1)+(s3aq8b7e=1)+(s3aq8b7f
=1)+(s3aq8b7g=1)+(s3aq8b7h=1));

p12withdrawal_v1=(p12withdrawal_total>3);

p12withdrawal_v2=(p12withdrawal_v1=1 or (s3aq8b7j=1 or s3aq8b8=1 or
s3aq8b9=1 or s3aq8b10=1));

p12withdrawal_dsm=(p12withdrawal_v1=1 or s3aq8b7j=1);
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p12intend = (s3aq8b13=1);

p12quit = (s3aq8b1=1 or s3aq8b6=1);

p12giveup = (s3aq8b2=1 or s3aq8b3=1);

p12time = (s3aq8b5=1);

p12problems = (s3aq8b4=1 or s3aq8b14=1);

\*\*\*\*\*Past 12-month dependence diagnosis\*\*\*;

dsm4depend\_total\_p12=p12tolerance+p12withdrawal\_v2+p12intend+p12quit+p12giveup+p12time+p12problems;

dsm4depend\_p12 =(dsm4depend\_total\_p12 ge 3);

Protocol source: <https://www.phenxtoolkit.org/protocols/view/510403>