



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.

Collect urine sample in a sterile container. Aliquot a minimum of 5 mL urine sample to be frozen and stored immediately at -20° C. However, if it can't be promptly frozen and may be left at room temperature for extended periods; acidification with sodium bisulfate to pH= 2-3 is advantageous to stabilize the sample.

Liquid chromatography - tandem mass spectrometry (LC-MS/MS) is the preferred method to accurately measure cotinine in urine samples, especially when used to assess secondhand smoke exposure. (See source references for details.) The limit of quantitation is 0.05 ng/mL.

The urinary cotinine cutpoint to distinguish people who smoke from those who do not is 30-50 ng/ml (see source reference 3). Note that this range relates to background population exposure to secondhand smoke and to some degree of metabolic differences. When background secondhand exposure is low, the cutpoint is low.

Protocol source: <https://www.phenxtoolkit.org/protocols/view/91707>