



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.

1. Ascertainment of Estimated Fetal Weight (EFW)

The investigator is encouraged to utilize one of the following approaches for documentation of EFW. Approach (a) is the preferred approach for retrospective studies, although it is recognized that biometric data may be less easily accessible in retrospective investigations, and as such approach (b) is provided as an alternative.

(a) EFW (preferably in grams) derived by review of available ultrasound reports to obtain relevant biometric measures (bi-parietal diameter [BPD], head circumference [HC], abdominal circumference [AC], and femur length [FL]), followed by calculation of EFW from formula provided by Hadlock (see Hadlock et al., 1985).

Date of ultrasound: _____ (DD/MMM/YYYY)

Gestational Age: _____ weeks _____ days (as per protocol for GA)

Biometric measures as they appear on the ultrasound report:

Bi-parietal diameter (BPD): _____ mm

Head circumference (HC): _____ mm

Abdominal circumference (AC): _____ mm

Femur length (FL): _____ mm

Estimated Fetal Weight (EFW): _____ grams

(b) EFW (preferably in grams) abstracted from ultrasound report contained within the medical record:

Date of ultrasound: _____ (DD/MMM/YYYY)

Gestational Age: _____ weeks _____ days (as per protocol for GA)

Estimated Fetal Weight: _____ grams

2. Verification of Gestational Age (GA)

The PhenX measure for Gestational Age - Medical Record Abstraction is considered essential for interpretation of this measure.

3. Plotting the EFW or Biometric Measures - US populations

Determination of fetal growth should then be undertaken, by plotting EFW or biometric measures on a growth curve, allowing for determination of percentiles, by using the following protocol:

NICHD Fetal Growth Studies

*An SR of 11 methods of EFW assessment did not identify a superior formula; given that Hadlock (1985) is the most widely used formula, it may provide the greatest degree of consistency across studies

Once biometric measures and gestational age have been obtained using one of the approaches described, the investigator should consult the Fetal Growth Standard established via the NICHD Fetal Growth Studies, to determine the specific, ethnicity-specific, EFW percentile. See Table 2 in the Buck Louis et al. 2015 publication for the EFW percentiles of the different ethnicities.

Protocol source: <https://www.phenxtoolkit.org/protocols/view/241501>