

## Data Collection Worksheet

**Please Note:** The Data Collection Worksheet (DCW) is a tool to aid investigators to integrate the collection of PhenX measures in your study. The PhenX measures that you selected and added to your Cart are presented in the DCW in alphabetical order. The DCW includes worksheets for data collection. Variables derived from the collected data are shown in the Data Dictionary (DD) with variable names and unique PhenX variable identifiers. The collection of DCWs produced by the Toolkit is not designed as a data collection instrument. Each investigator will decide how to integrate PhenX measures into data collection for their study.

### 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#Source>