

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.

The Tanner-Whitehouse Test is an online tool which was developed by Lorentz Jantschi and Sorana Bolboaca and is available at:

vl.academicdirect.org/medical_informatics/bone_age/v1.0/

The tool describes various findings associated with each of the following 20 regions of interest (ROI) of the left hand as seen on x-ray. The ROIs are the:

- Radius
- Ulna
- First, third, and fifth metacarpal
- Proximal phalanx of the thumb, third finger, and fifth finger
- Middle phalanx of the third and fifth finger
- Distal phalanx of the thumb, third finger, and fifth finger
- Capitate
- Hamate
- Triquetral
- Lunate
- Scaphoid
- Trapezium
- Trapezoid

Users select a finding that matches what they see on the x-ray. Each finding has two x-ray images, a drawing and a written description. Once a selection is made for each ROI, the users enters the patient's name*, address, x-ray date, diagnostic, gender, weight, height and age (in years and months, for example 11 years and 3 months). Then the program calculates the individual's bone age based upon the standard atlas associated with the Tanner and Whitehouse method. *_See Specific Instructions for suggestions regarding personal identifying information.

Protocol source: <https://www.phenxtoolkit.org/protocols/view/220301>