Sample Perpendicular Lines

The Sample Perpendicular Lines tools allows users to make point and distance measurements perpendicular to a defined line (points A and B).

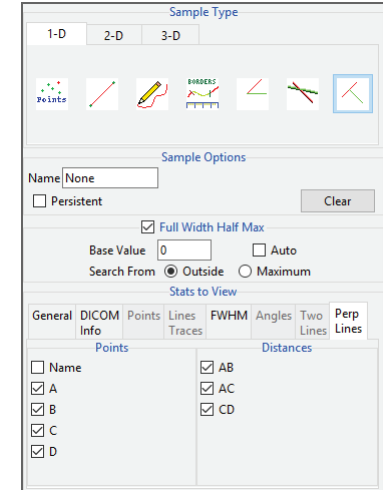**Sample Options:** Provides users with access to the following sampling options:

· **Name:** Assigns a name to the perpendicular line measurements when reported to the log file.

· **Persistent:** Prevents previously defined perpendicular line measurements for being cleared.

· **Clear:** Clears all perpendicular line measurements from the image.

Stats to View

• **General:** Allows users to report general image data parameters in the stats log file. See General under Sample Point(s) > Stats to View for a full description of available options.

• **DICOM Info:** Allows users to report DICOM tag information if the data is in the DICOM format. See the DICOM Info under Sample Point(s) > Stats to View above for a full description of available options.

Perp Lines:

• **Points:** Provides users with the option to report the following point related information and measurements:

· **Name:** Reports the name entered in the Sample Options area for the perpendicular line measurement.

· **A:** Reports the X, Y, Z coordinate location for point A of the perpendicular line tool.

· **B:** Reports the X, Y, Z coordinate location for point B of the perpendicular line tool.

· **C:** Reports the X, Y, Z coordinate location for point C of the perpendicular line tool.

· **D:** Reports the X, Y, Z coordinate location for point D of the perpendicular line tool.

• **Distances:** Provides users with the option to report the following distance measurements:

· **AB:** Reports the distance between point A and point B.

· **AC:** Reports the distance between point A and point C.

· **CD:** Reports the distance between point C and point D.

Making Perpendicular Line Measurements using Sample Perpendicular Lines

The sample perpendicular lines tool is useful when making measurement perpendicular to specific landmarks in a data set. Download the CBCT.avw data set from analyzedirect.com/data to follow along.

- Open Input/Output and load CBCT.avw into Analyze. Select CBCT and open Measure. Select the Sample Perpendicular Lines tool [1] from the 1-D Sample Type tab. Set the measure display so that all three orthogonal views are displayed with the Sagittal as the primary display [2].

- Adjust the Cursor Link tool in the axial [3] or coronal view to select a sagittal slice close to the mid-sagittal point. Toggle off the Cursor Link tool [4]. Enable all required Point and Distance measurements [5].

- Click on an area at the base of the skull [6] to set the first point (A) for the tool. Drag the second point B to an area in the nasal bone [7]. The perpendicular line (points C and D) will appear halfway between points A and B. Drag point D to the mandible [8].

- The selected measurements will be reported to the stats display area [9]. Click Log Stats to log these measurements to a stats file that can be saved to disk.