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.

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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.

