RECD ENHANCEMENTS

a Axiom®
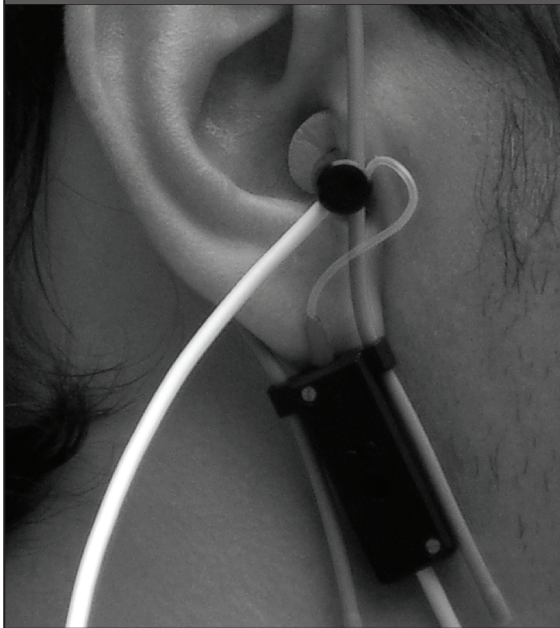
PKB#3 REVA

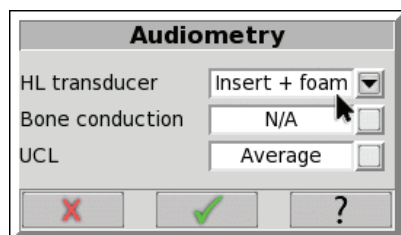# RECD enhancements for Axiom® — Software 1.8

In collaboration with the National Centre for Audiology, changes have been made to the measurement and handling of Real Ear to Coupler Difference (RECD) data. These enhancements also observe the new ANSI S3.46-2013 RECD specifications.

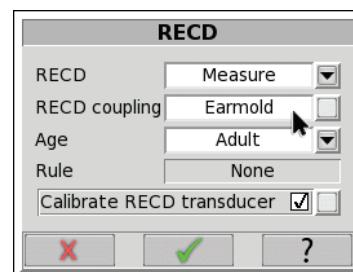### The new software offers the following benefits:

- comprehensive support for clinical measurement and simulation protocols, including the use of earmolds in RECD
- implementation of DSL HL-to-SPL conversions, specific to the HL coupling
- data compatibility with Verifit 2

What has changed?

As always, when entering audiometric assessment data, you will be prompted for the transducer used for HL threshold measurement.

However, in 1.8 software the user is also prompted to select RECD coupling (except where average data is being used) - foam eartip or earmold. This allows the client's personal earmold to be used in RECD when desired, and facilitates entry of RECD data that was measured this way.
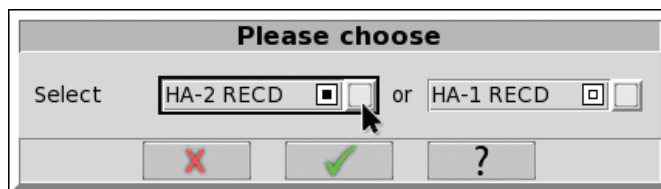
To provide support for the HA-2 coupler in Test box Speechmap®, the BTE instrument selection has been expanded to "BTE + HA-2" and "BTE + mold," the latter to be selected only when the BTE instrument and personal earmold is coupled to an HA-1 coupler.

Note: Users of software versions 1.6.17 to 1.6.28 were limited to using HA-1 coupler with earmold for Test box Speechmap. While the earmold + HA-1 is still an option, HA-2 coupling is once again supported. Regardless of the transducer used during the hearing test (i.e., HL transducer), the Audioscan system will automatically apply the appropriate transform to the RECD measurement and the entered data to capture the transducer and coupling effects.

Compatibility:

All RECD measurements are now expressed and stored as HA-1 referenced (HA-2 used internally where required). This provides compatibility with Verifit 2 systems, and also conforms to ANSI S3.46-2013 advice which states that the RECD is a property of the ear only, exclusive of the coupling and sound source used to measure.

When entering previously-measured RECD data, the user is prompted to choose the coupler reference. HA-1 RECD is selected when entering RECD measured on software 1.6.17 or later (3.10.56 for Verifit VF-1 or RM500SL) and when entering any RECD measured on a Verifit 2. HA-2 RECD is selected when entering data measured on 1.6.5 or earlier (3.10.39 for Verifit VF-1 or RM500SL). Note that when entering existing RECD data the coupler reference appears on the printout — if using NOAH, the selection will be automatic.

The RECD improvements described here will be implemented with the release of software version 1.8 for Axiom. Please check audioscan.com for availability.