


## Quick Guide ABRIS

- 1) To launch the ABRIS module from the Database, double click on the ABRIS icon in the instrument box.
- 2) Apply electrodes. Blue for Left and Red for Right mastoid respectively. White for vertex (or hairline at forehead) and Black for lower forehead. Most neonates with clean (but not oiled) skin do not need abrasive cleaning prior to electrode montage. The neonates can be prepared using disinfecting agents, like sprit on a non-clotting cloth. Disinfect the areas where the electrodes should be mounted.
- 3) Check Impedance with PreAmplifier in "Imp" mode. Turn the dial fully clockwise and then turn it slowly counter clockwise. Each LED will turn on as the impedance is found for that specific electrode. The impedance must be below 3k $\Omega$ .
- 4) If impedance is higher than 3k  $\Omega$  , you may need to redo electrode montage (and maybe clean or abrase skin) at the electrode site where impedance is too high.
- 5) Shift lever at PreAmplifier to "ERA" position.
- 6) Observe EEG level – too much EEG noise from an unrestful baby (or from a very poor electrode montage) will cause the "noise bar" to be in the red zone (or the EEG to be red, if the raw EEG is displayed instead of the "noise bar"). EEG and noise bar is on next page
- 7) Once noise levels are OK, press START.
- 8) Wait for test to complete.
- 9) Save and Exit by clicking on .

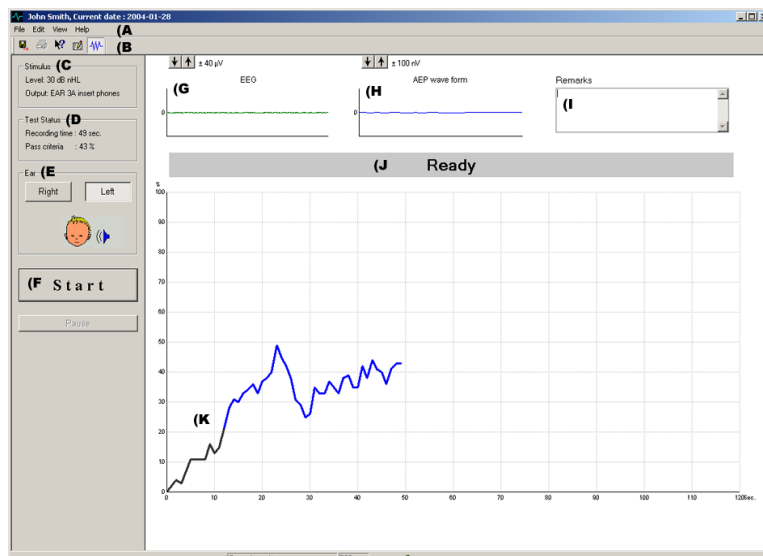
### ABRIS Test results

When the pass criteria are reached, the result "**PASS**" will be shown on the screen.

**Note:** A "PASS" result will not necessarily mean that the full auditory system is normal. A full audiologic examination should be performed if there are other indications that the patient has a hearing impairment.

If the pass criteria are not reached, the result "**REFER**" will be shown on the screen. The "REFER"-result does not necessarily mean absence of hearing. However, the patient should be referred to an audiological "follow up" examination by experts, unless there is a possibility of an error during the test. In this case you should do a retest before you refer the patient to a follow up.

### Reading and Using the ABRIS Screen



The first 13 seconds the curve is black to indicate that no pass will be accepted within the first 13 seconds. After this time it will be blue or red indicating the ear being tested. If the curve rises to 100% before timing out (at 120 seconds), the test will stop, giving a Pass indication. If timeout is reached without getting to 100% a Refer will be indicated.

**A) Dropdown menus including the following options:**


*File:* System Setup, Printing options and Exit.

*Edit:* Delete right, left or both.


*View:* EEG / Noise.


*Help:* Help topics and "About ABRIS".


**B) The toolbar:**

 Save and Exit. (Saves Session results and returns to database.)

 Print. (Prints latest results.)

 Help button. (Launches the HELP function – if available)

 Report button. (If report templates are entered in the System Setup, you may choose one of these to be included for this session. You may edit such a report template for this session if needed, without changing the original contents of the report template.)

 View EEG / Noise bar. (Choose between the two different ways of displaying the EEG signal / Noise)

**C) Stimulus** - Shows the stimulus chosen in the system setup.

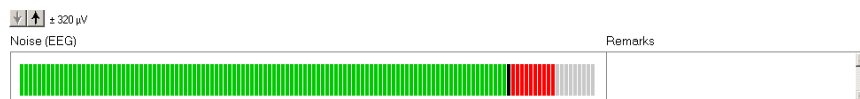
**D) Test status** - Shows the status of the test during testing.

**E) Ear** - Shows which ear is being tested.

**F) Start** - The test will start when the button is activated. (If there is too much EEG noise, though, the test will be in Pause mode, waiting for the noise to settle down before starting)

**G) EEG** - Shows the EEG. The graph will turn red when the measurements are rejected (too much noise). Adjust by using the arrows or changing the setup.

**G) Noise bar**- When viewing Noise instead of EEG the following VU meter is displayed. Green indicates acceptable EEG level and Red indicates too noise EEG level (poor electrode contact or unrestfull baby).



**H) AEP waveform** - Shows the AEP waveform. Due to the nature of the stimulus, this cannot be compared to traditional ABR waveforms.

**I) Remarks box** – you can add your comments here.

**J) Status** - Shows the status of ABRIS (Ready, running etc.).

**K) The Curve** - The first 13 seconds the curve is black to indicate that no pass will be accepted within the first 13 seconds. After this time it will be blue or red indicating the ear being tested. If the curve rises to 100% before timing out (at 120 seconds), the test will stop giving a Pass indication. If timeout is reached without getting to 100% a Refer will be indicated.