

MB 11 BERAprone®

Testing Tips & Troubleshooting Guide

Calm Baby

- Perform the screening at a time when the baby is comfortable, that is, recently fed, diapered and preferably sleeping. Much time will be wasted attempting to screen an irritable, hungry baby. It would be more efficient to come back later when the baby is in a calmer state.
- Calm and relax the baby if needed by:
 - o Gently stroking the baby's head, area between the eyebrows or hand
 - o Encourage relaxation of neck/shoulder tension near the test ear by grasping the baby's arm and gently guiding it down and toward the midline of the body. You will note that the baby will suddenly relax and open the shoulder making it easier to position the BERAprone and reducing artifacts from muscle tension.
 - o Roll up a blanket or towel and place it against the curve of the back and neck when the baby is lying on his/her side

Quiet Room

- Noisy conditions can prolong the test and impact the test outcome; therefore, test in a quiet room if possible. When testing in a mother's room or multi-purpose environment, reduce the sound levels (TV, radio, conversations, etc) as much as possible.

Impedance Troubleshooting

- If any impedance traffic light remains red:
 - o Move the BERAprone slightly to be sure to touch the prepared contact points
 - o Rub the contact point on the skin again with a little more gel
 - o Apply a little more gel to the electrode
- If impedance remains poor despite repeated attempts at skin preparation with electrode gel, massaging 10-15 times at each contact point:
 - o Use an electrode skin preparation product such as NuPrep® or an alcohol pad to clean the skin and try again with a small amount of gel on the electrode.
 - o Unplug the laptop PC (and printer) from the AC outlet to run on PC battery power
 - o Check that the system USB cable is securely connected to the PC and to the BERAprone USB box.
 - o Verify that only water-soluble electrode gel is being used. Ultrasound gel is NOT recommended.

EEG Signal Quality Troubleshooting

- If EEG signal quality remains poor or becomes poor during testing:
 - o Check the state of the baby to be sure he/she is calm and relaxed. Pause the test temporarily to calm the baby in necessary. Keep the BERAprone in place since repositioning it can cause the baby to react again causing artifacts.
 - o To the extent possible, turn off other non-critical electrical devices in the environment.
 - o Unplug the MB 11 laptop PC (and printer) from the AC outlet to run on PC battery power.
 - o Check that the BERAprone has not slipped away from the prepared contact points.
 - o Verify that electrode gel at the 3 contact points on the head do not touch each other. Clean any areas of overlapping gel.