

Map Overview

Brain Map – How To:

- Set Up Cap
- Record Map
- Clean Cap
- Upload Map
- Download Report

How To Set Up The Cap

- The tag on the cap goes on the back of the head
- 2 front sensors go in the middle of the forehead, over the ears
- Put Nuprep on an alcohol swab and clean the earlobes and also lift up cap and clean where sensors are on the forehead
- Take your syringe, needle, and gel
 - Pull apart the syringe and dip the plunger (black part) into the ElectroGel and then push back together. This allows the plunger to slide in the tube easier
- Screw the needle into the tube and draw up ElectroGel into the tube
- Section by section, gel up the cap
 - Place fingers on each side of the sensor to hold it down
 - Place needle into the sensor and wiggle it back and forth to go through all the hair
 - Squeeze gel as you pull needle out and wipe away excess
 - Want too little gel than too much
 - If gel from two locations touch, this is called a Salt Bridge which makes two locations read the exact same data
 - This would invalidate the data, thus invalidating the entire map
 - Fill the rest of the locations
- Plug in references (earclips)
 - Fill each cup with ElectroGel using an applicator (do not "scoop" cups in ElectroGel) and squeeze onto ears

Record Map

- Plug the cap into the NewMind amplifier
- "NewMind 4 Channel Amplifier" should be in the top left corner of the screen
 - If not, "Cancel & Close" and try plugging in the amp again
- Recording 4 locations at a time
- Start by testing the connection
 - Poor Impedance – Environmentally Based - cap may be too loose, add gel, wiggle to get hair out of the way
 - Artifact – Client Based – muscle tension, blink, swallow
- Start recording
 - Baseline – allows client to settle before the recording starts

- Recording length – only recording CLEAN EEG, so it may take longer than the 1 minute recording length because the timer pauses at each artifact
- Move to next location set
 - Test, Record
- Label your map w/ Client Name
 - Automatically puts date, time, and EO/EC
- Record another Map
 - Eyes open
 - Don't have to test your connections because you already did in the EC
- If you have a client that is super wiggly or tense, you can turn off auto artifacting, but always try to coach them to relax first
- Label the same as before (it will save as EO)

Cleaning the Cap

- Use warm water, cap only – DO NOT get 25 pin connector wet
- Use a soft toothbrush to gently clean gel out of electrodes with dish soap
- Clean after each use
- Blot dry then hang up
 - If using immediately after, use a hair dryer on low to dry quickly

Upload Map

- Log into newmindmaps.com (database)
- Find client, click on brain maps tab
 - Add EEG set
 - Opens a new window
 - Already in Clients profile, so we don't need to put their name again
 - Can label "Initial Map", etc.
 - Enter in Client's age, CEC, ISI, map date and default brain map size
 - File type – EDF
 - "Add"
- Upload Eyes Closed
 - Choose file, brain map recordings
 - Notice 2 files
 - W/O artifact
 - W/ artifact
 - Upload, do the same for eyes open
- Edit EEG
 - 3 Options
 - Select all data (if already clean)
 - Auto-artifact
 - Manual edit
 - Need at least 30 seconds to produce a report