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July 15, 2002

Dear Joan,

Thank you for participating in our study. We have enclosed two printouts of your brainwaves that were recorded during one of the activities you did, it was the activity when you were listening to tones. The black and white printout captures your brainwaves as you saw it on the computer screen. This is considered the raw encephalogram (EEG). The second printout of your brainwaves is printed in color and has been processed into event-related potentials (ERPs).

In the colored printout there are recordings from 3 of the sensor sites. Remember we had about 30 sensors that were collecting data, but the three that are in the printout are three that go right down the center of your head from front to back. Fz is in the front of your head (over the frontal cortex) and is the top set of waves in the printout, Cz in the center of your head and is the middle set of waves in the printout, and Pz is at the back of your head (over the parietal cortex) and is the bottom set of waves in the printout. In the printout of your brainwaves there are three different waveforms for each site in 3 different colors; black, red and blue. One reflects what your brain was doing when you heard the frequent low tones (these waves are black in the printout). The red waves reflect what your brain was doing when you heard the combined tones that went from a high sound to a low sound or from a low sound to a high sound. The blue waves reflect what your brain was doing when you heard the high tones and pressed the button.

Notice that your brain showed different activity depending on what tone you heard. Because your brain does different things depending on what you see or what you hear and do, we can learn about how kids think about things and see if this changes as kids grow older.

We have also enclosed a picture we took the day you were in the lab. Thank you so much for your time. You really have helped us gain more information about how kids think about things. If you have any questions or if you would like to participate in more studies like this please call me (491-7294). Also if you know of any of your friends that might like to be in this study please have one of their parents call me to find out more about the study.

Sincerely,

Patti Davies  
Assistant Professor