

## **Effects of GSM use on brain function and information processing - Phase I**

### **Results:**

The present study employs standardized data acquired from the Brain Resource International Database to study the relationship between mobile phone usage, personality, and brain function ( $n = 300$ ). Based on the frequency and duration of mobile phone usage, three groups were formed. The findings suggest a subtle slowing of brain activity related to mobile phone use that is not explained by differences in personality. These changes are still within normal physiological ranges. Better executive function in mobile phone users may reflect more focused attention, possibly associated with a *cognitive training* effect (i.e., frequently making phone calls in distracting places), rather than a direct effect of mobile phone use on cognition.

**Keywords** cognition, EEG slowing, GSM, mobile phone, neuropsychology, personality

### **Published Work:**

Arns, M., van Luijtelaaar, G., Sumich, A., Hamilton, R. & Gordon, E. (2007) "*Electroencephalographic, personality, and executive function measures associated with frequent mobile phone use*". International Journal of Neuroscience, 117: 1341-1360

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