

**Effects on Human Muscle Weakness Patterns  
When Using Cell Phones and the BioElectric Shield**

**By**

**Virginia Bonta Brown, M.S., OTR,  
Carolyn Workinger, Lissa Beatty**

**Objective**

At numerous trade shows around the world, self-selected individuals were tested for muscle strength under differing conditions. The objective was to determine if using a BioElectric Shield would strengthen or weaken a muscle while using a cell phone.

**Methods**

Twelve thousand (12,000) individuals were tested under three different conditions. First, each subject's opponens muscle was tested to determine its baseline strength. Second, the individuals held an active cell phone to their ear and the opponens muscle was retested to determine relative strength or weakness. The opponens muscle was re-tested under a third condition which was with individuals wearing a BioElectric Shield over their lower sternal region (supported by a cord around their neck) while still holding an active cell phone to their ear.

**Results**

Of the 12,000 individuals tested, 11,760 (98%) had reduced opponens muscle strengths after putting an active cell phone to their ear. Of the group that weakened, baseline muscle strength was restored in 11,525 (99%) of these individuals after using a BioElectric Shield.

**Discussion**

While not all individuals have muscle weakness from being in the presence of electromagnetic fields (EMFs) near their head, in this group of 11,762, or approximately, 98%, showed muscle weakness. Of those individuals that are weakened from EMFs near their heads, 99% of these have increased muscle strength when using a BioElectric Shield.

**Conclusion**

The BioElectric Shield increases muscle strength in most people even in the presence of electromagnetic fields.

9/28/2000