

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)

Jagannathan Rangarajan

Project Number

J0924

Project Title

The Untold Truth! The Effects of Cell Phone Radiations (Comparision)

Abstract

Objectives/Goals

Does your cell phone emit radition, which brand emits the most radiation, compare radiation strength during incoming and outgoing calls and at what distance will generate the most radition waves.

The objective is to create awareness about this biggest non-drug addiction in the 21st century.

Methods/Materials

Materials: A jig to hold the cell phone, few cell phones and a EMF detection meter.

Methods: Mount the cell phone on a jig and dial to that cell phone and measure the radiation. Move the cell phone at different distances and measure the radiation. Do this for few other cell phones, and chart the results.

Results

The radiations levels are generally the same on all aspect of the experiment, classified as: the more the distance from the phone, the less radiation. Samsung Galaxy S4 when held zero inches away from cell sensor during the incoming call produced the most radition waves (Comparision based on LG, Blackberry and Samsung Andriod phones).

Conclusions/Discussion

The inferrence is that the farther one holds their phone from their head, the less radition the human brain is exposed to. Other ways to discount radition exposure is the use of bluetooth or speaker phone.

Children are at greater risk than adults for developing brain cancer from cell phone as their nervous systems are developing and more vulnerable to factors causing cancer. Their heads are smaller compared to adults and have a greater proportional exposure to the field of radio frequency radiation emitted by cell phones.

Summary Statement

The Comparision and Effects of Cell Phone Radiation

Help Received

Dad reviewed my grammer, and ordered me a cell phone detector meter.