positive association. While these results may be interpreted as failing to indicate an excess of cancer mortality from radar or microwave exposure, they neither prove nor disprove prolonged exposures to RF and microwave radiation from wireless communication technology pose a risk to human health. An urgent need of epidemiological studies of RF effects on mobile telephone users is better dosimetry and exposure assessment.

Table 13. Recent epidemiological studies of human exposure to RF and microwave radiation

Spectrum CW/Pulse	Study Endpoint	Study Population	Results	Author Year
RF	Mortality (Cancer)	Amateur Radio Op.	SS	Milham [1988]
Microwave	Cancer	Children Near Tower	NS	Selvin et al [1992]
RF (Radio)	Cancer Leukemia	Children Near Tower	SS	Mascarinec & Cooper [1993]
Microwave/ RF(Pulse)	Brain Tumors	U.S.A.F. Personnel	SS	Grayson [1996]
RF Cell- bhone)	Mortality (Brain Tumors)	Mobile Telephone User	NS	Rothman et al [1996]

SS - Statistically significant; NS - Statistically nonsignificant

SUMMARY AND CONCLUSIONS

It is noteworthy that there is agreement in studies where higher SARs are induced by microwave exposure. Several studies have demonstrated that when the SAR is sufficiently high (CW or pulse-modulated at 165 W/kg or more) that it raises the temperature of the brain to 42°C or higher, BBB permeability increases for substances normally excluded from brain parenchyma.

For rabbits exposed minimum cataractogs SAR of 138 W/kg in production of lens op duration threshold for long the duration of

Although the microwave radiation were more promine epidemiological stud

The microwa average power. The produces a rapid ris pressure that travels the same mechanism the middle and inner microwave pulses. The upon the hearing ap microwave radiation

Exposure of produce electrophys have been reported to observed electrophy the highest SAR was

As mentione BBB permeability findings persist am W/kg). In addition Nevertheless, these may be capable of o

Several in v cultures showed no microwave at an av

Two of the studies gave excess. Grayson [1996] was with a small cluster fumes as a confour realistic measures or risk analysis. In add an urgent need for dosimetry and expenses.