

# HIR-News

Year 1, Number 2

February 2005

## Hallberg Independent Research - Newsletter 1:2

*The theme of this newsletter is Mobile Phones.*

Örjan Hallberg  
Hallberg Independent Research

Welcome to this second issue to the HIR-Newsletter.

### Are parents really interested in the health of their children?

Yes, of-course they are! But their knowledge about mobile handsets and the output power emitted from these is probably very limited. Read this new information about two unused patents...

There are lots of indications that public health is related to the radiation emitted from mobile phone handsets [1-4]. The data shows that the health is worse in counties where the average output power from the mobile phones is elevated, such as in the country-side counties. The population density is low and the average distance to the mobile base station is large. This forces the mobile phones to 'shout' higher in order to maintain a good contact with the closest base station.

At present this power limit is 2W for 900 MHz GSM and

*Cont page 2*

## IN THIS ISSUE

- 1 Are parents really interested in the health of their children?
- 1 Recent advances
- 3 What is ongoing right now?

## Recent advances

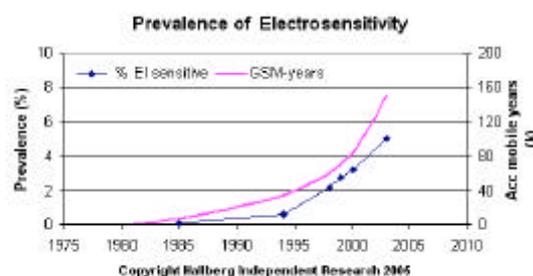
*Brief news of recent advances*

Örjan Hallberg  
Hallberg Independent Research

### The number of Electro Hyper Sensitive (EHS) is increasing!

In Sweden and in many other countries we can see that the number of severely EHS people is increasing. Many of those are chased by the mobile phone operators, who suddenly may build masts close to such people. Here is an estimate of the development so far.

Also included is the number of mobile-years spoken in Sweden.



In a recent study as much as 10% of the interviewed people said that they had some problems that they related to mobile phones or other electrical equipment.

May-be these will also develop EHS in a few years.

*Cont page 2*

1W for 1800 MHz as peak pulse power. It appears that no parents so far have been interested in reducing this maximum output power that will hit their children as soon as the child talks inside a car or is in another place where the base station requests full power.

***But the mobile phone manufacturers have thought about it!***

Nokia writes in patent EP 0 843 421 A2 from 1997 the following: ***"In most countries there are regulations in force which impose certain maximum limits on the power of electromagnetic radiation directed towards humans. These limits vary from country to country and will most probably be tightened in the future"***. It is of interest to note that Nokia already in 1997 expects the maximum power limit to be reduced by time. But still after 7 years the maximum power level of 2W remains unchanged. SSI and the mobile manufacturers are happy.

Further on in the patent it says: ***"In addition, an aim of the invention is to create a system with the aid of which the user may, if he so desires, limit the maximum value of the electromagnetic radiation directed towards his body."*** Already here is a system described to let the user on his own limit the power level of the allegedly dangerous radiation. When can we see more of this genius idea?

Ericsson is not behind the development. In the patent US 6,029,074 also from 1997 is described how the output power from the mobile phone automatically is reduced for the case you are using the phone in a hand held position and not e.g. using a hands-free cord. ***"When the mobile phone is operated in a hand-held mode, the power control logic sets the power level at a maximum hand-held power level which is less than the maximum transmit power level."*** In this patent is also shown how the user may choose maximum output power simply by pushing one of 3 buttons, well done (2W), medium (0,8W) or rare (0,32W) expressed in pulse peak power.

But where is it possible to buy these safety phones patented by both Ericsson and Nokia? When I asked customer services at Sony Ericsson they had never heard of this. But still the patent is valid up to 2017 so no other mobile phone manufacturer will be able to

market a more healthy phone for the children e.g.

Parents should be interested in the health of their children. One reason is that the children shall take care of the old population after their retirement. Right now it looks as the 'Meet Mountain' from the 40's will have to take care of the first dementia generation from the 60's in the near future....

## References

1. Hallberg Ö, Johansson O, "Mobile handset power and health", Electromagnetic Biology and Medicine, 23:229-239, 2004.
2. Hallberg Ö, Johansson O, "1997 - A curious year in Sweden", Eur J Cancer Prev 2004; 13: 535-538
3. Hallberg Ö, Johansson O, "Long-term sickness and mobile phone use", J Aust Coll Nutr & Env Med, 2004; 23: 11-12
4. Hallberg Ö, Johansson O, "Does GSM 1800 MHz affect the public health in Sweden?", In: Proceedings of the 3rd International Workshop "Biological Effects of EMFs", Kos, Greece, October 4-8, 2004, pp 361-364.

Well, take your time to digest this second issue of the HIR-News and if you are interested in more, just go to the main page <http://hir.nu> and dig up details.

---ooo000ooo---

## Recent advances...

Cont fr. page 1

## Cancer and FM broadcasting

Today there are three research reports on this subject listed in the EMF project database that is maintained by WHO.

View This Study - ID 991  
<http://www10.who.int/peh-emf/emfstudies/viewstudy.cfm?ID=991>

**Author's Name** Hallberg O, Johansson O

**Model** RF broadcast tower density and incidence of melanoma

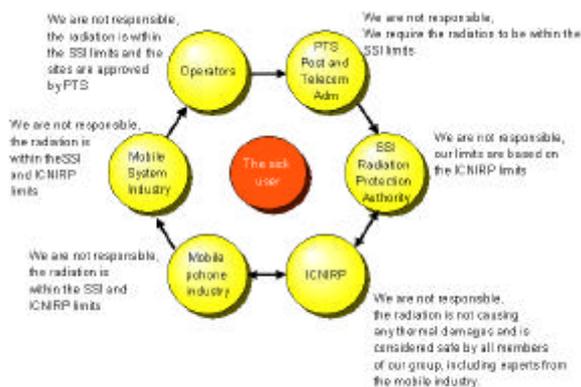
**Reference** Med Sci Monit (2004) 10(7):CR336-340;  
Arch Environ Health (2002)57:32-40;  
ACNEM Journal (2002) 21:3-8

## WHAT IS ONGOING?

A continuous work goes on to study **melanoma of skin**.

Several countries have been studied to see if melanoma of skin is related to the **latitude, UV-dose, population density and the density of body-resonant FM-transmitters**. Without disclosing any details I can tell you that this is interesting reading! Let's hope that there are Journals that dare publish the results. No funds have been granted to support this study, needless to say.

**Lung cancer** is also a very interesting area to dig into. Did you know that the age-standardized rate of lung cancer for men increased rapidly from 1955 up to 1980? And then it suddenly leveled off to start a decent? There seems to be a very logical explanation to this behavior. A report on this is being authored, hopefully you can digest it in due time. Certainly Philip Morris would appreciate it...



## CALENDAR

### SUBMITTED PAPERS

AT PRESENT 4 PAPERS ARE BEING CHECKED BY PEER-REVIEW

### BOOKS

TWO BOOKS ARE BEING AUTHORED. ONE IS FINISHED AND IN PRINTING, THE OTHER IS NOW BEING CONSIDERED BY A PUBLISHER.

### PRESENTATIONS

IF YOU ARE INTERESTED IN A PRESENTATION - PLEASE CONTACT ME VIA THIS E-MAIL:

[ÖRJAH.HALLBERG@SWIPNET.SE](mailto:ÖRJAH.HALLBERG@SWIPNET.SE)

## Who is responsible for health problems caused by mobile phones?

Unfortunately, it appears that nobody is taking the responsibility. Everybody is blaming other parts. If you are interested in details, please, go to this page: <http://hir.nu/Responsibility>

It is worth mentioning that SSI states that any costs will have to be covered by the tax payers (the government).

The responsible ministry (Social) states that no research has been able to show any connection between mobile phones and health problems. Until then there will be no actions taken to sort this question out. (Morgan Johansson).

The graph to the left shows that nobody takes the responsibility for this. The vicious circle!

## Should a cancer patient use a mobile?

Well, it depends probably on what type of cancer we talk about. But for sure, if a patient has been diagnosed with cancer on the acoustic nerve, it would be wise to cut down on talking. Even if talking is at no cost in the evenings...

HIR asked the Swedish Radiation Protection Authority (SSI) what recommendation they would give regarding mobile phone use for a patient diagnosed with a tumor on his neck, right below the 'mobile phone ear'.

The answer was simply: Ask your doctor!

So, the next step is to ask some doctors to learn what kind of advice they would give a worried patient under those circumstances. This will be reported in a later newsletter. I would not be surprised if the doctors referred back to SSI!

Another vicious circle!

Örjan Hallberg