

## Forbid the use of mobile phones in Sweden!

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### Introduction

Way over 10,000 billions SEK have been invested into mobile systems in Europe. In order to transport that amount of money it would require a colon of trucks 100 km long, as the distance between Gävle and Uppsala, where each truck carries 10 tons in thousand SEK notes! The use of mobile phones has increased exponentially since 1997 when the second generation of GSM (1800 MHz) started to be rolled out. After year 2001 there is also 3G, adding extra spice to our lives by higher frequencies and also an increased maximum power density to unbelievable **10,000,000  $\mu\text{W}/\text{m}^2$** !

In order to further increase the use of mobile phones the prices are lowered and children do not have to worry about if their weekly 'salary' will cover the phone bill. Unlimited calls, offer Telia between their customers and Telenor takes only 0,09 SEK/minute, close to zero for us grown-ups, remembering the 5:50 per minute during the 80's.

### Facts

Most doctors probably know that our bodies are built up by cells. Even our brains are made of several cells who communicate with each other via small cell phones. The electrical signals in the brain can easily be registered by instruments outside of the skull. This is routinely done in EEG-test, lie detection tests etc. The power density of this radiation is very low. To get good readings by the EEG-instrument the brain activity needs to generate 25-150  $\mu\text{V}$  between test point and the ear (used as reference), probably less than 0,001  $\mu\text{W}/\text{m}^2$  area.

Cells are complex creations, containing many life supporting mechanisms. At danger, sudden physical stress, sudden heat or cold, the body reacts by increased production of stress protein e.g. hsp70. This protein activates stress genes, e.g. HSP70. These genes and proteins help supporting important characteristics. There are 20 different families of stress proteins that help cells to repair damaged proteins and to transport them through cell membranes.

Specific DNA-sequences within HSP70 react on electromagnetic radiation (EMR). Low levels of EMR can affect electrons in DNA and thereby induce stress reactions. Higher levels of EMR in the RF band may even cause clear DNA-breaks [1].

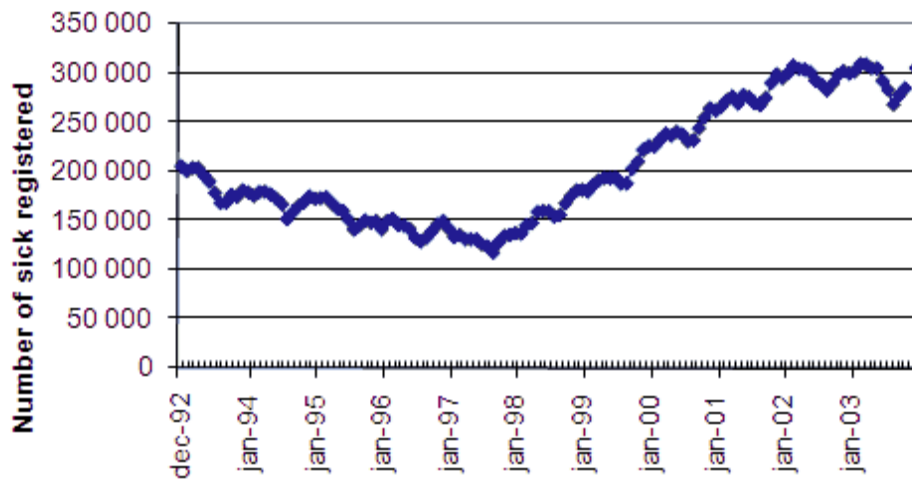
In a natural state HSP70 is activated by natural reasons. You may have to run away from a bear, draw back your hand from the fire or get up from the water on to solid ice as fast as possible. The stress protein hsp70 cannot be produced on a continuous base. If so, the natural defense mechanisms would eventually lose their effect.

The Radiation Safety Authority (SSM) states that if EMR does not heat up the brain it is harmless. But since brain activity 0,001  $\mu\text{W}/\text{m}^2$  routinely is used for EEG or similar signals from the heart for EKG-tests it is difficult to understand why SSM is stating that EMF at **ten billion times higher levels** are harmless!

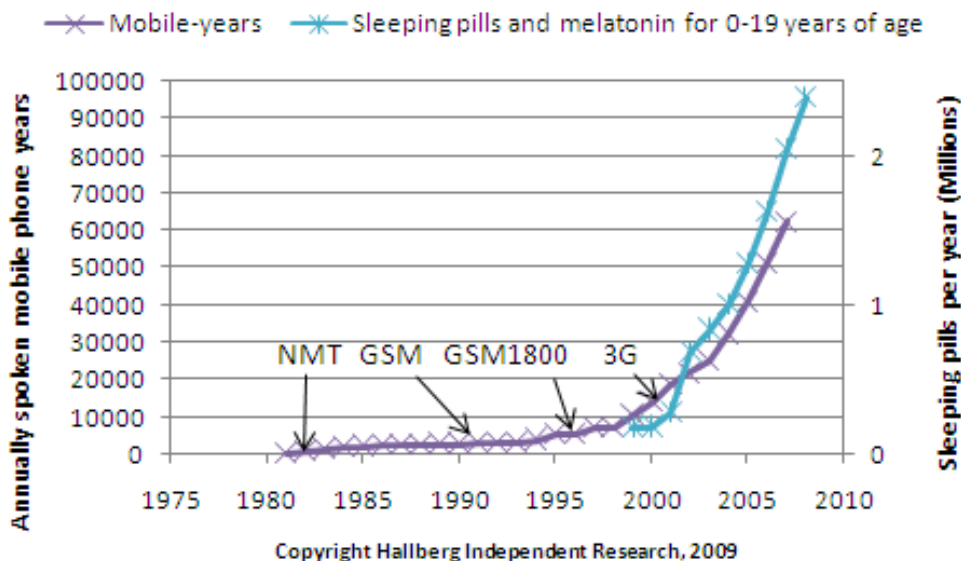
Scientific studies now show that normal radiation from mobile phones stimulates the production of the stress protein hsp70 [1]. Today the body will be exposed to these levels of radiation for long periods of the day and night, many times continuously from nearby base stations as well.

This quite unnatural and stress generating environment has now as a result caused several health indicators to show fast increasing adverse trends. Some examples of such warning signs are given below.

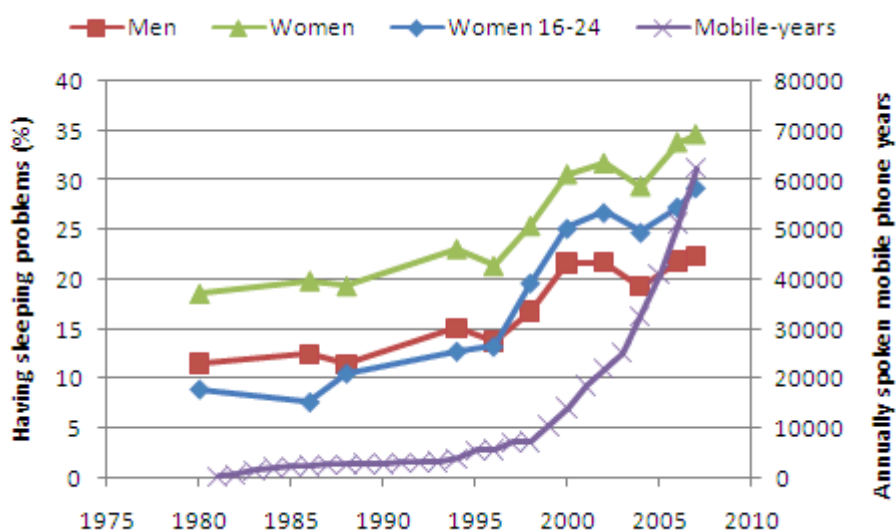
1. The downgoing trend of number people on sick leave suddenly was broken in the autumn 1997 at the same time as the new base stations for GSM 1800 begun to work 24h/day and most people bought the new dual band phones. This trend break occurred suddenly from one specific month for each one of the 21 counties in Sweden. It would have been interesting to know if this month was the same as when the GSM188 system was rolled out in each county. But when the Swedish operator Telia was asked about these roll-out months, the answer was that this information will not be released [2].



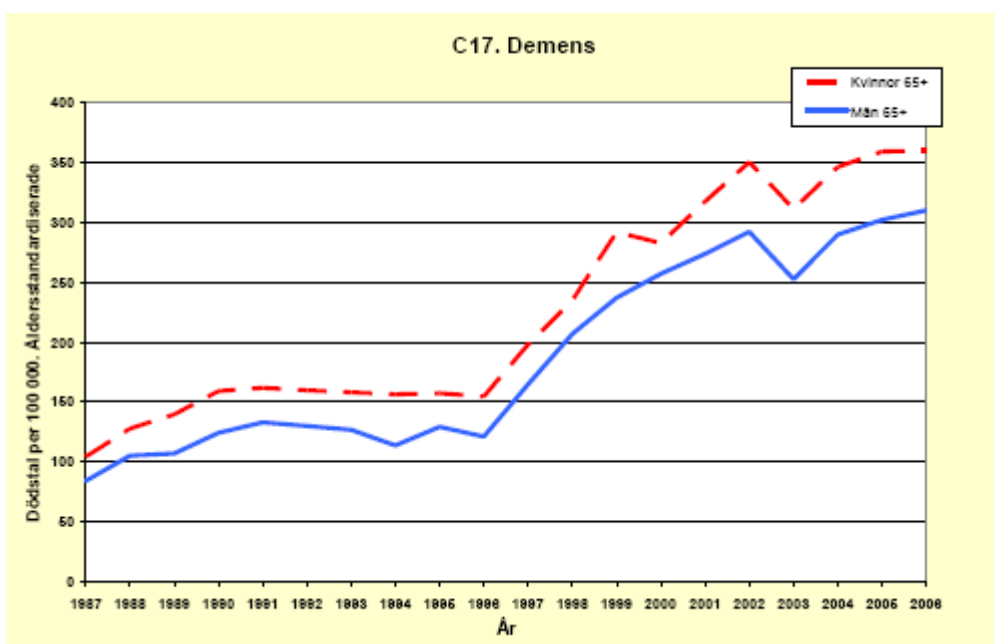
2. Prescription of sleeping pills and melatonin to children and young people is increasing since 1997 and especially since 2001 [3].



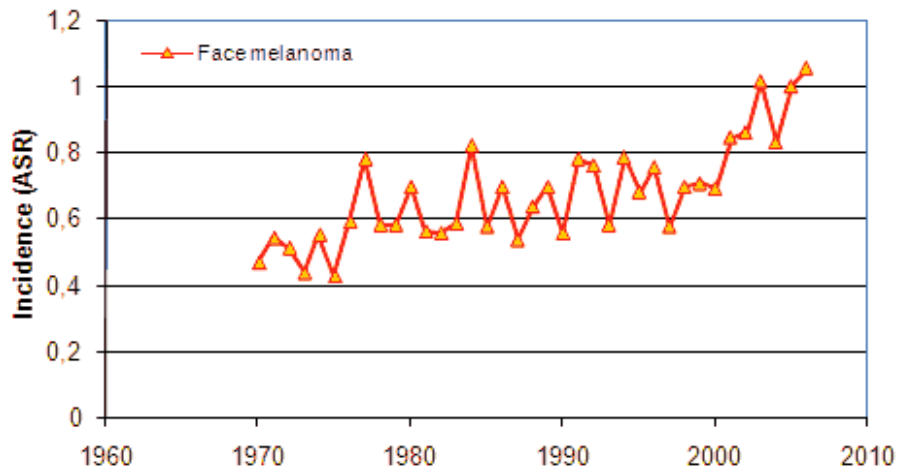
- The increasing sales of sleeping pills to children is not just a result from good marketing efforts by Apoteket (the sales organization). A report from Statistics Sweden shows that both children and adults actually have more and more of sleeping problems. And especially since 1997 [4].



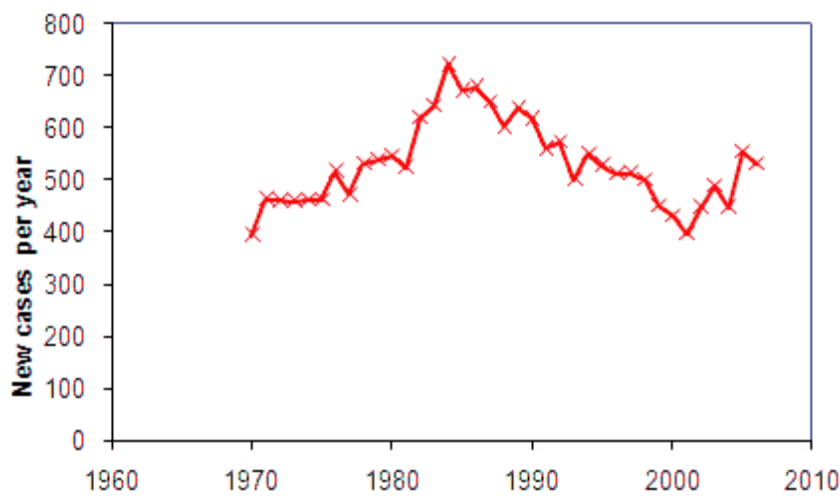
- The mortality in dementia shows a clear cut break in 1997 and supports the suspicion that a broken blood-brain barrier is not to recommend for people, who suffer from a dementia illness [5].



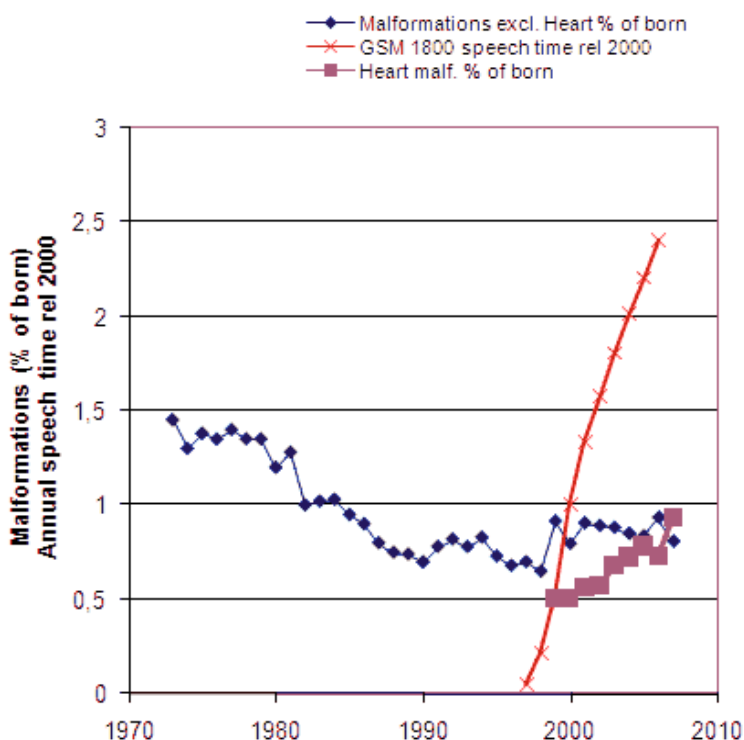
- The dangerous form of skin cancer, melanoma, suddenly starts to increase from 2001 in face and head regions among people younger than 60 years. Earlier the incidence had been stable for decades. But at the same time the incidence of more benign tumors stops increasing so the total sum continues on just as it had been doing since beginning of the 80's. Our environment seems to have changed so that skin damages that earlier might develop towards benign skin tumors now instead have an increased risk of transforming into melanoma [2].



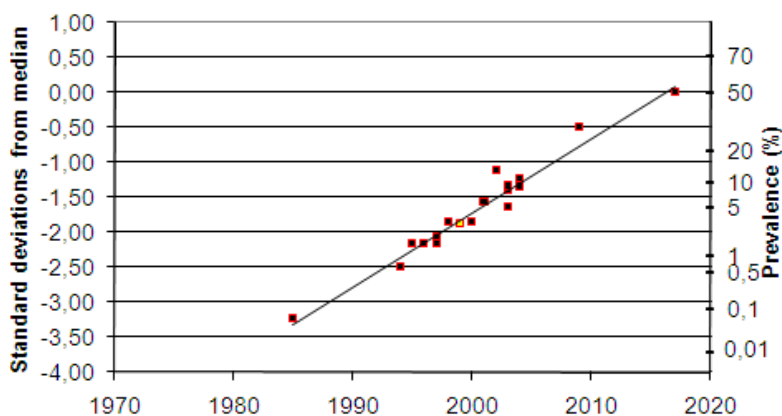
- After 2001 we can also see that the incidence of brain tumors suddenly is increasing among elderly after a long period of decreasing rates. The same increase can also be noticed among younger people [2].



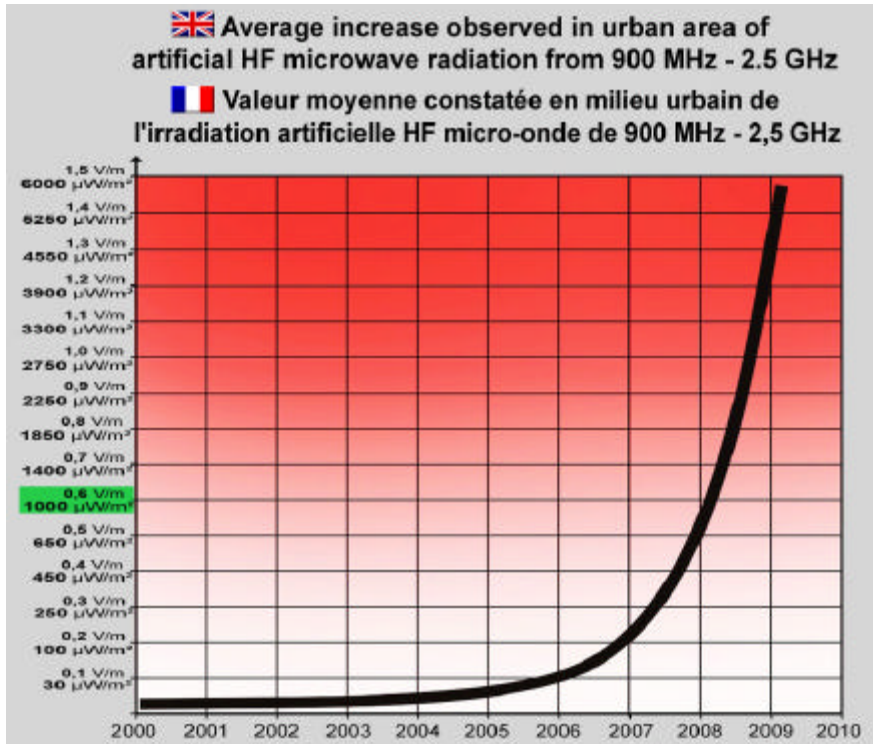
- The number of neonatal born with malfunctions steadily decreased since 1970 up to 1997, when the rate of malfunctions leveled out. From the same year statistics of heart malfunctions was registered as it earlier was not part of the statistics. The fraction of new born with heart problems increased by almost 100% from 2001 to 2007 [2].



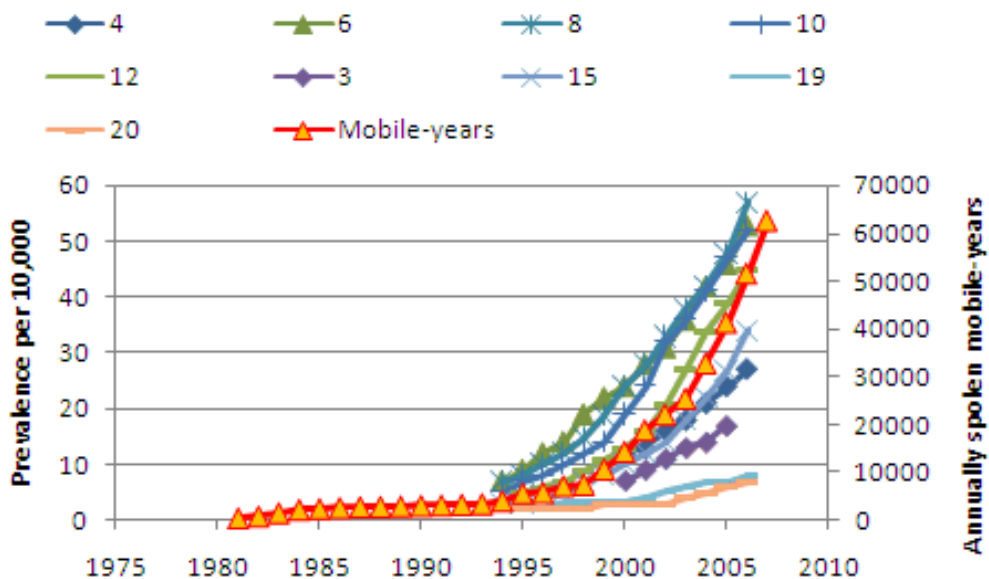
- The prevalence of electrosensitive is increasing and the trend points at 2017 as the year when 50% of the population will suffer from one or another form of electrosensitivity. This is based on a trend of measurements reported since beginning of the 80's when electrosensitivity first was reported. As late as January this year 31% of respondents to a web survey reported pain after longer conversations by mobile phone. The rest of the data in the graph below are reported in ref. [6].



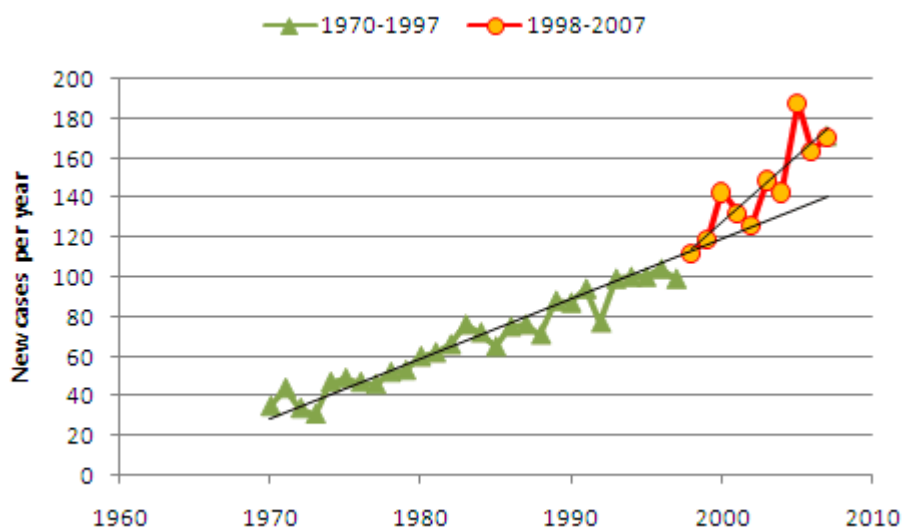
9. Due to the roll-out of GSM1800, 3G-networks, DECT-phones in our homes, WiFi on public areas and in schools and all wireless networks in our homes, we literally swim in high frequency electromagnetic fields. This diagram shows as an example the increase in an urban area. In order to also plot the safety limit of  $10\ 000\ 000\ \mu\text{W}/\text{m}^2$  assured by our Radiation Safety Authority (SSM) we would have to make the graph several meters high!



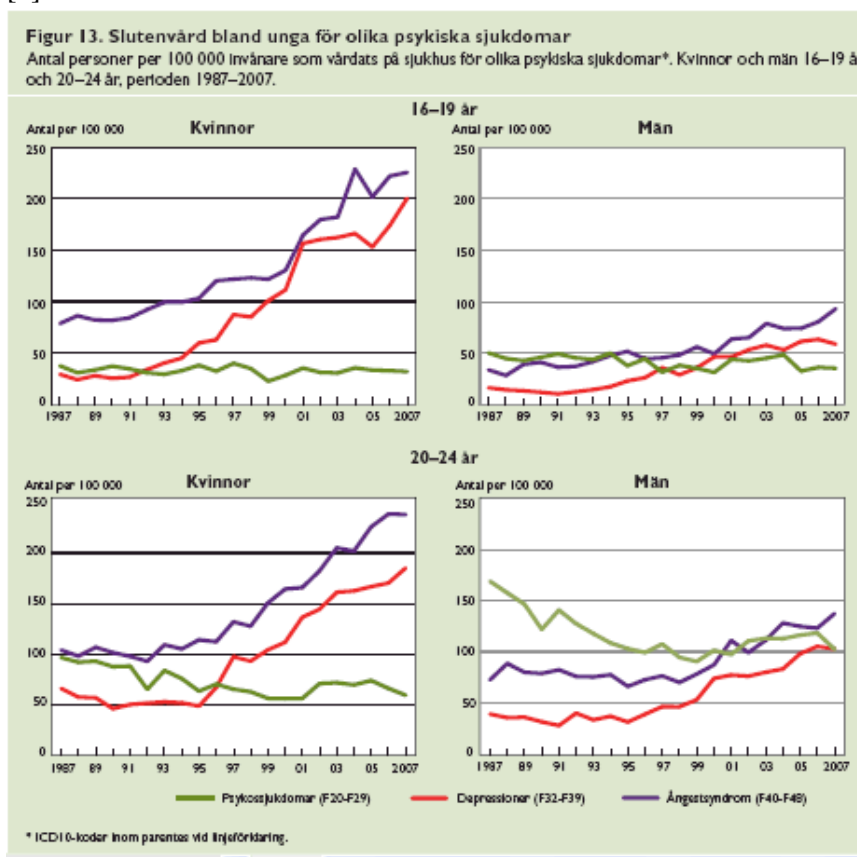
10. Autism is fast increasing among our children. In the USA this development has been followed carefully and it is possible to get prevalence data for children and youths from 3 to 20 years of age since 1994. The information given in the graph below has been supplemented with the volume of mobile phone speech time in Sweden just to point at a very probable connection. A more scientific explanation to the connection between EMR and Autism is given by Mariaea and Carlo in the ACNEM Journal [7].



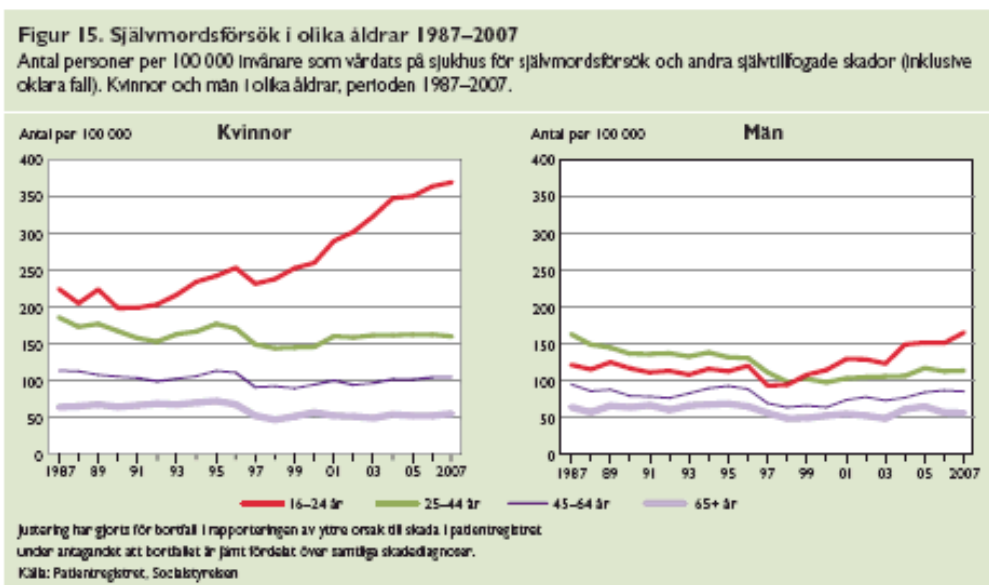
11. Cancer in the throat is increasing according to Swedish TV, April 1, 2009. A fast check in the cancer register in Sweden shows a clear trend break after 1997. In the TV program a specific virus is mentioned as the probable cause. The possibility that the immune defense efficiency against such a virus has been reduced by some external factor is ofcourse not mentioned [8].



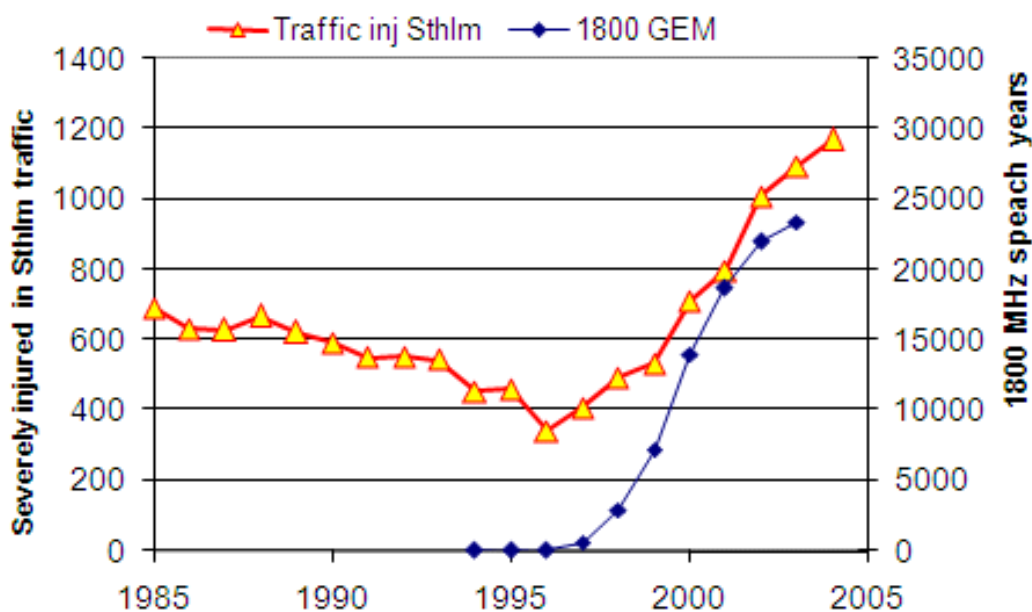
12. According to the Public Health Report 2009 the need for special care of young people is increasing regarding depression. Below is shown that this need is increasing fast after 1997 [9].



13. Suicide and suicide attempts among young girls is increasing after 1997. It is not only the production of the sleep hormone melatonin that is affected by EMR. Serotonin and dopamine are important hormones to feel good and not to jump in front of a train as soon as something does not go the wanted way. By a funny coincidence also these sad incidents happen more often after 1997 [9].



14. The number of seriously injured people in the Stockholm traffic showed a good trend and was steadily lower from year to year since beginning of the 1990's. But from 1997 it became possible to use the improved coverage for mobile phones thanks to GSM1800 and you could use the long time in the slow rush hour traffic for telephone calls. American tests have shown that the reaction time for a mobile talking driver is comparable with or worse as one having 0.08 % alcohols in the blood. The number of seriously injured people starts to increase rapidly from 1997 and reaches record high levels [2].





## Conclusions

1. The Environmental Minister must take full responsibility for the fact that so far nothing has been done to stop these negative trends. The ministers for Social welfare and Public health should also feel concerned.
2. The Radiation Safety Authority is responsible for still allowing continuous exposure of the population to manmade radiation levels up to ten billions times higher than levels having biological effects
3. The National Board for Health and Welfare are responsible for not reacting on negative trends in their reports but always explain these by "aging population" or "improved diagnostics" etc.
4. The mobile phone industry is product responsible and must compensate injured people for damages that the industry's products have caused them.

The mobile telephony in its present technique, WiFi, wireless home lan networks, DECT-phones and similar equipment need to be prohibited and must be replaced by safer products.

Those, who are responsible for the worsening public health of today, must take this responsibility and instigate corrective actions. If that is not started immediately, responsible people will, in due time, be taken into court and charged according to relevant law paragraphs.

## References

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