

15 December 2014

To: WHO EHC-RF, International EMF Project

See: http://www.who.int/peh-emf/research/rf_ehc_page/en/
<https://extranet.who.int/datacol/form.asp?id=3092>
emfproject@who.int vandeventere@who.int

From: Margaret Friesen, M.Sc.
Winnipeg, Canada

Re: Input for public consultation on WHO Electromagnetic Fields (EMF) Radio Frequency Fields: Environmental Health Criteria (EHC-RF) Monograph Draft (2014)

Thank you for the opportunity to comment on the EHC-RF draft Monograph.

Outline of my submission:

1. Objectives and scope of EHC Monograph
2. Comments
 - 1) Summary and recommendations
 - 2) Task Group
 - 3) Publications e.g. omitted publications
 - 4) Specifically for chapters
 - 5) Closing comments

1. OBJECTIVES AND SCOPE

Objectives of the EHC Monographs are:

"to **assess information** on the relationship between exposure to environmental pollutants and human health, and to **provide guidelines** for setting exposure limits; to **identify new or potential pollutants**; and to **identify gaps** in knowledge concerning the health effects of pollutants."¹

Furthermore, WHO "will deliver a critical, scientific review of radiofrequency fields on all studied outcomes of relevance to human health, but excluding usage for medical diagnostic and therapeutic purposes..."

The scope of this third in a series of Monographs on Electromagnetic Fields is assumed to be the same as the first two, namely:

Scope: extract²

The criteria monographs are intended to provide critical reviews on the effect on human health and the environment of chemicals and of combinations of chemicals and physical and biological agents. As such, they include and review studies that are **of direct relevance for the evaluation**... Worldwide data are used and are quoted from original studies, not from abstracts or reviews. Both published and unpublished reports are considered and it is incumbent on the authors to assess all the articles cited in the references. Preference is always given to published data. **Unpublished data are used only when relevant published data are absent** or when they are pivotal to the risk assessment. ... In the evaluation of human health risks, **sound human data**, whenever available, are preferred to animal data. Animal and *in vitro* studies provide support and are used mainly to supply evidence missing from human studies... The EHC monographs are intended to assist national and international authorities in making risk assessments and subsequent risk management decisions. **They represent a thorough evaluation of risks** and are not, in any sense, recommendations for regulation or standard setting. These latter are the exclusive purview of national and regional governments."

¹ WHO Environmental Health Criteria Programme, 1973. Emphasis added.

² 2007 EHC-ELF 238 Monograph. Emphasis added.

2. COMMENTS

1) Summary and recommendations (Chapter 1)

Note: neither a summary nor recommendations appear in the draft.

Immediate preventative actions are required.

It is clear that many well designed and scientifically sound studies from credible institutions, published in respected journals, indicate significant, potentially harmful effects at and below International exposure guidelines. It is imperative that the WHO take a leadership role and immediately move to implement the Precautionary Principle.

WHO priorities should include immediate upgrading of warnings, advisories and fact sheets (e.g. #193), to reflect accurately the findings such as cancer, sperm damage, developmental problems, etc.

Gaps in current information, and practices for data gathering include:

- International consensus and implementation of brain cancer coding regarding type and location, to enable collection of meaningful statistics that are comparable within and between jurisdictions.
- Protocols are needed to allow research use of ongoing cell phone and mobile (portable) phone usage data, while protecting privacy.
- Not all frequencies have been studied, so expansion of technologies to increasing numbers of frequencies should be accompanied with exposure tracking, to permit investigation of potential association of health effects with novel exposures.
- Means to measure exposures and discern effects of simultaneous exposures from multiple sources.

2) Task Group

Every effort should be made to establish a balanced Task Group. Details of the selection and composition of the Task Group must be made public.

3) Publications

a. Identifying relevant publications

For 2011 to 2014, I identified >1,000 more RF and EMF-RF related references than are in the Monograph draft (Table 1); undoubtedly, I did not identify all relevant papers. I used EMF portal with the appropriate YEAR and the search terms "EMF" and "radiation" to start searches. Most publications were in PubMed or World Catalog.

Table 1. Count of references identified by me (Friesen), identified by the WHO EHC-RF Monograph draft, and omitted by the WHO EHC-RF Monograph draft.

Year	References Identified		References Omitted by WHO EHC-RF Monograph draft (count)
	By Friesen (count)	By WHO EHC-RF Monograph draft (count)	
2011	379	95	284
2012	463	103	360
2013	437	38	399
2014	123*	6	117*
TOTAL	1402	242	1160

* Partial. I have over 200 references ready to add.

The WHO has an opportunity with this Monograph to correct the global shortcoming for a high quality comprehensive examination of all of the recent EMF-RF literature (Appendix A). In the meantime, an interim document with the most recent literature is urgently required so that governments, etc. can take informed appropriate precautionary and preventative actions.

The references (n=1402) identified by year for 2011, 2012, 2013, and 2014 of my searches are listed in Appendix B. Time did not permit going back to 2010 and earlier but I know there are many relevant publications that have not been included in the draft Monograph. How does WHO intend to capture these?

b. The Monograph should include a comprehensive list of "discarded" publications, with reasons

Lists should appear in the Monograph of all "discarded" publications with reasons, "duplication papers" apart from identical records identified in two databases, and those foreign language papers for which translators were not found.

Appendix X . Line 46. It was agreed to include papers in the following official WHO languages: Chinese, English, French, Russian and Spanish, while due to restricted language competence of available experts and restricted options for translations, **none of the identified Russian papers and only epidemiological Chinese papers have been included.** Papers in German were systematically included, whereas papers in other languages were **included if experts that could help with these were easily identified and available.** [Emphasis added.]

c. Inclusion criteria

The stated reasons for exclusion are too broad and it is not clear that these criteria were applied uniformly.. One of the objectives of the EHC is to identify "new or potential pollutants". To do this, a wide range of literature must be examined. The Scoping section explicitly says that even "**unpublished**" data should be examined.

Appendix X, Line 44: "in a peer-reviewed scientific journal. Narrative reviews are not included. Meta-analyses are not included at this stage. Conference proceedings are not included."

Greater inclusion, as outlined in the "Scope" section, is required, or informative data will be lost e.g. should use the highest level of evidence available as well as the inclusion of case studies e.g. West (2013): # 412, Appendix B.

d. Quality assessment of papers included in the Monograph

The Monograph must disclose its assessment criteria to the public.

If the human epidemiological research was mature, and the exposures today were the same as previously (they are not - exposures are escalating rapidly with new technologies), then non-gold standard studies might be downgraded in the synthesis of information gathering phase; however, to be forward looking, **all** evidence must be weighed and not just exclusively peer-reviewed studies.

References on the influence of funding sources should be included, such as:

- Huss, A., Egger, M., Hug, K., Huwiler-Müntener, K., & Rösli, M. (2007). Source of funding and results of studies of health effects of mobile phone use: systematic review of experimental studies. *Environmental Health Perspectives*, 115(1), 1–4.

or

- Huss, A., Egger, M., Hug, K., Huwiler-Müntener, K., & Rösli, M. (2008). Source of funding and results of studies of health effects of mobile phone use: systematic review of experimental studies. *Ciência & Saúde Coletiva*, 13(3), 1005–1012.

e. Overlooked older references

A wealth of older studies³ is available. For example:

- Kinn, J. B., & Postow, E. (1981). Index of Publications on Biological Effects of Electromagnetic Radiation 0-100 GHz. *U.S. Government Printing Office, EPA-600/9-81-011*, 567.
Extract: "This publication lists 3627 articles published in the world literature dealing with biological effects of electromagnetic radiation over the frequency range of 1-100GHz. The contents have been compiled from the data bases of the U.S. Environmental Protection Agency and the Navy Department ... to March 1980."
- declassified military documents, some of which can be found at: <http://www.magdahavas.com/category/from-zorys-archive/>

(Some of these have been translated, from the original German, Russian, etc.)

4) Comments on the topic chapters

Chapters 2 to 12 must be considered incomplete because of the omission of hundreds of publications. Some of these publications are provided in Appendix B.

Chapter 4. Biophysical mechanisms: tissue heating and add- non-thermal effects and effects at below International standards

A few of many relevant, publications include:

- Pall, M. L. (2014). Microwave electromagnetic fields act by activating voltage-gated calcium channels: why the current international safety standards do not predict biological hazard. *Recent Res. Devel. Mol. Cell. Biol.*, (7). Retrieved from <http://www.cqipe.ca/pdf/microw-vgccnoheat.pdf>
- Nittby (2012) and Trosic (2012) - see attached reference list 2012: # 307 and # 399, respectively.
- Engels, S., Schneider, N.-L., Lefeldt, N., Hein, C. M., Zapka, M., Michalik, A., ... Mouritsen, H. (2014). Anthropogenic electromagnetic noise disrupts magnetic compass orientation in a migratory bird. *Nature*, 509(7500), 353–356.

Chapter 5. Brain physiology and function and add and Electromagnetic Hypersensitivity

The draft Monograph has omitted many publications on Electromagnetic Hypersensitivity. This section should include publications such as:

- McCarty, D. E., Carrubba, S., Chesson, A. L., Frilot, C., Gonzalez-Toledo, E., & Marino, A. A. (2011). Electromagnetic hypersensitivity: evidence for a novel neurological syndrome. *The International Journal of Neuroscience*, 121(12), 670–676.

(Note: there is an exchange of "letters" between one of the authors and Dr. G.J.Rubin.)

Here is a prime example where "unpublished" data should be listed and examined for this emerging public health issue. In addition, clinicians and researchers in the field e.g. medical doctors such as Dr. Belpomme (France) and Dr. Bray (Canada) should be interviewed. (I would be glad to provide more names.)

³ Not in WHO EHC 16 (1981/1982) or WHO EHC 137 (1993)

Chapter 11: Fertility, reproduction and development

Findings in this study must be considered:

- Su, X.-J., Yuan, W., Tan, H., Liu, X.-Y., Li, D., Li, D.-K., ... Miao, M.-H. (2014). Correlation between exposure to magnetic fields and embryonic development in the first trimester. *PloS One*, 9(6), e101050. doi:10.1371/journal.pone.0101050

Chapter 12. Cancer

This recent publication must be considered:

- Carlberg, M., & Hardell, L. (2014). Decreased survival of glioma patients with astrocytoma grade IV (glioblastoma multiforme) associated with long-term use of mobile and cordless phones. *International Journal of Environmental Research and Public Health*, 11(10), 10790–10805. doi:10.3390/ijerph111010790

Note: The Danish cohort studies have been largely discredited and should at best be given a low weighting e.g. *BMJ* comments and commentaries in other publications such as Soderqvist (2012): # 371. How could a personal phone "subscription" possibly serve as a "gold-standard" exposed group, while those with corporate subscriptions are considered unexposed? Exposure in the mid-1990s cannot predict exposures over 10 years later. More comments can be found on the *BMJ* website. Surely, if the website containing the Trottier and Kofsky (2009) comment, can be used as a basis to exclude a study (Havas heart study), then the *BMJ* comments and related peer-reviewed publications should have equal or greater merit e.g. comments by Dr. Henshaw (Emeritus Professor of Human Radiation Effects, School of Chemistry, University of Bristol Cantocks Close, Bristol).

It is of interest to note that the Trottier and Kofsky (2009) comment was accessed in February, 2014 (see Chapter 9, page 46), yet peer reviewed, relevant publications which would have been available at this time, were not identified for inclusion. Some would consider this more than a hint of bias.

Closing Statement: There should be another opportunity for public examination and response to a complete draft Monograph.

Please contact me for clarification or for assistance in identifying the omitted documents, particularly from 2010 and earlier, as well as the most recent 2014 and 2015 publications.

Margaret Friesen M.Sc.
friesenm.ehs@gmail.com

Note: I have conducted this work on a voluntary basis and have received no remuneration for this submission.

Appendix A. Tally of numbers of references 2009 to 2014 cited in the draft of the World Health Organization (WHO) Electromagnetic Fields (EMF) Radio Frequency Fields: Environmental Health Criteria (EHC-RF) Monograph and the Friesen submission as part of the WHO public consultation. Also included are tallies from the Health Canada Safety Code 6 documents, the Royal Society of Canada report, the Friesen Update submission and various "Authoritative Reviews". Abbreviations are defined on the following page.

	Report	2009	2010	2011	2012	2013	2014	Total cited
WHO	WHO-EHC-RF Draft September 2014	110	104	95	103	38	6	456
	FriesenM Response to WHO public consultation - 15 Decemeber 2014	>200	>200	181/379 ^a	272/463 ^b	307/437 ^c	57/123 ^d	>1500 ^e
Health Canada	SC 6 2014 Draft posted on HC website 16May 2014	9	6	2	3	3	-	23
	Health Canada SC6 2013 Rationale	7	3	4	3			17
	RSC SC6 Report 1 April 2014 Chapter 7 (Health Effects)	14	26	26	32	22	4	124
	FriesenM UPDATE provided to RSC (2013)	226	257	233	246	205	3 EAP	1170
"Authoritative Reviews" identified by Health Canada	SCENIHR Preliminary 2013	83	94	99	96	28		400
	ANSES 2013France	84	102	104	64	15		369
	AGNIR 2012United Kingdom (UK)	116	101	41	3			261
	SSM 2013 Sweden	11	31	113	98	4		257
	NIPH 2012Norway	51	77	63	8			199
	IARC 2011WHO Monograph 102	78	69	40				187
	EFHRAN 2012European Commission	38	29	66	3			136
	The Hague 2013The Netherlands	16	14	26	5			61
	SSK 2011 Germany	13	20	18				51
	CCARS 2011 Spain	29	14					43
	Latin America ExpertsCommittee 2010	26	7					33
	Mugdal et al 2013European Commission*	24	3					27 ^f
	Reuben 2010	13						13
	ICNIRP 2009	10						10
	Victoria Dept Health 2012 Australia			5	2			7
	SCENIHR 2009	5						5
	Part&Jarasinski 2013European Commission	1	1			2		4

a 2011: 181 are RF publications. 379 are total number of RF-EMF related publications.

b 2012: 272 are RF publications. 463 are total number of RF-EMF related publications.

c 2013: 307 are RF publications. 437 are total number of RF-EMF related publications.

d 2014: 57 are RF publications. 123 are total number of RF-EMF related publications.

e Total: a conservative estimate that at least 500 publications up to the end of December 2012, directly relating to RF and biological effects, have been omitted from the WHO EHC-RF draft Monograph..

f includes mis-entries and duplicates.

EAP = e-publication ahead of print.

Report Title Abbreviations

- AGNIR (2012)** = Advisory Group on Non-ionising Radiation. "Health Effects from Radiofrequency Electromagnetic Fields". Health Protection Agency. UK. http://www.ices-emfsafety.org/documents/publications/AGNIR_report_2012.pdf. 2012.
- ANSES (2011)** = Agence nationale de securite sanitaire de l'alimentation, de l'environnement et du travail. Radiofrequences et sante. Mis a jour de l'expertise. Maisons-Alfort, France;
- CCARS (2011)** = Scientific Advisory Committee on Radio Frequencies and Health. Report on Radiofrequencies and Health (2009-2010). Madrid, Spain. 2011;
- EFHRAN (2012)** = European Health Risk Assessment Network on Electromagnetic Fields Exposure. Risk analysis of human exposure to electromagnetic fields (revised). European Commission [Internet]. 2012;
- FriesenM Response to WHO public consultation - 15December2014** = Response to World Health Organization (WHO) Electromagnetic Fields (EMF) Radio Frequency Fields: Environmental Health Criteria (EHC-RF) Draft Monograph (2014).
- FriesenM UPDATE 2013** = Selected list of scientific and other literature on wireless radiation including radiofrequency and microwave radiation, for a full evaluation of biological effects by the Royal Society of Canada's Expert Panel reviewing draft of Safety Code 6 (2013): Update, December 2013. Submitted to the RSC - public consultation process. 2013:108 pp.
- Health Canada SC 6 (2013) Draft** = Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz: Safety Code 6: 2013 DRAFT. Health Canada; 2013.
- Health Canada SC6 (2013) - Rationale** . Safety Code 6 (2013) -Rationale. Health Canada. 2013;44.
- Health Canada SC 6 (2014) Draft** = Health Canada. Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz: Safety Code 6: 2014 DRAFT. Health Canada; 2014.
- IARC (2013)** = International Agency for Research on Cancer (World Health Organization). Non-ionizing radiation, Part II: radiofrequency electromagnetic fields. IARC Working group on the evaluation of carcinogenic risks to humans. IARC Monographs on the evaluation of carcinogenic risks to humans 102. 2013;
- ICNIRP (2009)** = International Commission on Non-Ionizing Radiation Protection (ICNIRP). Exposure to high frequency electromagnetic fields, biological effects and health consequences (100 kHz-300 GHz). 2009 May 1]; Available from: <http://www.icnirp.de/documents/RFReview.pdf>
- Latin American (2010)** = Latin American Experts Committee on High Frequency Electromagnetic Fields and Human Health Latin American Experts Committee. Non-Ionizing Electromagnetic Radiation in the Radiofrequency Spectrum and its Effects on Human Health with a Review on the Standards and Policies of Radiofrequency Radiation Protection in Latin America. 2010. Available from: <http://www.wireless-health.org.br/downloads/originals/LatinAmericanScienceReviewreportFinal-2MR.doc>
- Mugdhal et al. 2013** = Mudgal S, Sonigo P, Toni de A, Johansson L, Rualt C, Schütz J, et al. Promoting healthy environments with a focus on the impact of actions on electromagnetic fields. European Commission.
- NIPH (2012)** = Norwegian Institute of Public Health. Low-level radiofrequency electromagnetic fields - an assessment of health risks and evaluation of regulatory practice (English Summary). Oslo, Norway [Internet]. 2012;
- Part P, Jarosinska D 2013** = same authors as in: Electromagnetic fields. In: Environment and human health — Joint EEA-JRC report (EEA Report No 5/2013). European Commission. 2013;Chapter 8:58–9.
- Reuben SH (2010)** = President's Cancer Panel (PCP). Reducing environmental cancer risk: what we can do now. DIANE Publishing. 2010;240.
- RSC SC6 (2014)** = The Royal Society of Canada Expert Panel: A Review of Safety Code 6 (2013): Health Canada's Safety Limits for Exposure to Radiofrequency Fields. Spring 2014:164. Released to the public 1 April 2014.
- SCENIHR (2009)** = Health effects of exposure to EMF. Scientific Committee on Emerging and Newly Identified Health Risks Opinion, European Commission Directorate General for Health and Consumers, Luxembourg. 2009;
- SCENIHR (2013)** = Preliminary opinion on potential health effects of exposure to electromagnetic fields (EMF). Scientific Committee on Emerging and Newly Identified Health Risks Opinion, European Commission Directorate General for Health and Consumers, Luxembourg. 2013;219.
- SSK (2011)** = German Commission on Radiological Protection. Biological effects of mobile phone use: an overview. German Commission on Radiological Protection. 2011;64 pp.
- SSM (2013)** = Swedish Radiation Health Authority. Eighth report from SSM's Scientific Council on Electromagnetic Fields,2013.
- The Hague (2013)** = The Health Council of The Netherlands. Mobile phones and cancer. Part 1. Epidemiology of tumours of the head. The Netherlands [Internet]. 2013;2013/11.
- Victoria Depart. Health (2013)** = Victoria Department of Health. Radiation Advisory Committee Annual Report 2012. Australia: 20 pp.
- WHO-EHC-RF draft (2014)**= World Health Organization (WHO) Electromagnetic Fields (EMF) Radio Frequency Fields: Environmental Health Criteria (EHC-RF) Draft Monograph (September 2014).

Appendix B: Relevant references identified for 2011, 2012, 2013 and 2014 (n=1402) for World Health Organization (WHO) public consultation on the Electromagnetic Fields (EMF) Radio Frequency Fields: Environmental Health Criteria (EHC-RF) Draft Monograph (n=242).

Many are studies showing biological effects at below International guidelines; some show effects attributable to non-thermal mechanisms. The total list (n=1402) includes a partial listing of Low Frequency, Pulsed EMF and MRI publications which may have relevant findings or comments.

At the end of some references, in { }, is the chapter(s) where the reference/study was cited in WHO's draft. Also listed is whether the cited study was not considered in the WHO's draft evaluation/analyses/summary tables. If listed but not being considered by WHO, the page number where this is noted in the WHO's draft is given.

Publications showing no effects, potentially harmful effects, and potentially therapeutic effects are included.

Note: order and format may not be the same as in the WHO draft.

2011

1. Agha-Hosseini, F., & Somayeh, D.. (2011). The influence of hand held mobile phone on human parotid gland secretion. *Oral Diseases*, 17(1), 123; author reply 124. doi:10.1111/j.1601-0825.2010.01768.x
2. Ahlbom, A., & Feychting, M.. (2011). Mobile telephones and brain tumours. *BMJ (Clinical Research Ed.)*, 343, d6605.{Chapter 12}
3. Alanko, T., Puranen, L., & Hietanen, M.. (2011). Assessment of exposure to intermediate frequency electric fields and contact currents from a plasma ball. *Bioelectromagnetics*, 32(8), 644–651. doi:10.1002/bem.20675
4. Albanese, A., Battisti, E., Giordano, N., Vittoria, A., Rigato, M., Leoncini, R., & Vannoni, D.. (2011). Biological evidences than human osteoarthritic chondrocytes could be affected by electromagnetic fields with extremely low-frequency or new TAMMEF system. *The Environmentalist*, 31(2), 176–180. doi:10.1007/s10669-011-9318-9
5. Alekseev, S. I., & Ziskin, M. C.. (2011). Enhanced absorption of millimeter wave energy in murine subcutaneous blood vessels. *Bioelectromagnetics*, 32(6), 423–433. doi:10.1002/bem.20658
6. Alekseev, S. I., Ziskin, M. C., & Fesenko, E. E.. (2011). Problems of using a thermocouple for measurements of skin temperature rise during the exposure to millimeter waves. *Biophysics*, 56(3), 525–528.
7. Alexandrov, B. S., Rasmussen, K. Ø., Bishop, A. R., Usheva, A., Alexandrov, L. B., Chong, S., ... Rodriguez, G.. (2011). Non-thermal effects of terahertz radiation on gene expression in mouse stem cells. *Biomedical Optics Express*, 2(9), 2679–2689. doi:10.1364/BOE.2.002679
8. Aniołczyk, H., Mariańska, M., & Mamrot, P.. (2011). [Optimization of methods for measurement and assessment of occupational exposure to electromagnetic fields in physiotherapy (SW diathermy)]. *Medycyna Pracy*, 62(5), 499–515.
9. Arima, T., Watanabe, H., Wake, K., Masuda, H., Watanabe, S., Taki, M., & Uno, T.. (2011). Local exposure system for rats head using a figure-8 loop antenna in 1500-MHz band. *IEEE Transactions on Bio-Medical Engineering*, 58(10), 2740–2747. doi:10.1109/TBME.2010.2103942
10. Aryal, B., Maskey, D., Kim, M.-J., Yang, J.-W., & Kim, H.-G.. (2011). Effect of Ginseng on Calretinin Expression in Mouse Hippocampus Following Exposure to 835 MHz Radiofrequency. *Journal of Ginseng Research*, 35(2), 138–148. doi:10.5142/jgr.2011.35.2.138{Chapter 5}
11. Aschermann C.. (2011). Elektrosensibilität: Ein Patient mit verbrennungsartigen Hautveränderungen (original article

- in German) Electrosensitivity: A patient with burn-like dermal changes.. *Umwelt - Medizin - Gesellschaft* 2011, 24(2), 141–146. Retrieved from http://www.umg-verlag.de/umwelt-medizin-gesellschaft/211_a_z.pdf
12. Aslan, A.. (2011). The effects of electromagnetic field exposure at short and long term of 900 mhz frequency emitted from mobile phones on rat bone tissue. *Dicle Medical Journal / Dicle Tip Dergisi*, 38(4), 452–457. doi:10.5798/diclemedj.0921.2011.04.0065
 13. Asmuß, M.. (2011). *Expansion of electric energy transmission networks: radiation protection, information, participation - Report on a Workshop at the Federal Office for Radiation Protection, 05 10 2011(original article in German)*. *umid0411.pdf*. Retrieved October 28, 2014, from <https://www.umweltbundesamt.de/sites/default/files/medien/515/publikationen/umid0411.pdf>
 14. Asmuß M.. (2011). *Non-ionizing radiation and Children's Health - Report on an international Workshop "NIR & Children's Health" in Ljubljana 2011 (original article in German)*. *umid0311.pdf* (pp. 13–18). Berlin: UMID. Retrieved from <http://www.umweltbundesamt.de/sites/default/files/medien/pdfs/umid0311.pdf>
 15. Aydin, B., & Akar, A.. (2011). Effects of a 900-MHz electromagnetic field on oxidative stress parameters in rat lymphoid organs, polymorphonuclear leukocytes and plasma. *Archives of Medical Research*, 42(4), 261–267. doi:10.1016/j.arcmed.2011.06.001
 16. Aydin, D., Feychting, M., Schüz, J., Andersen, T. V., Poulsen, A. H., Prochazka, M., ... Röösli, M.. (2011). Impact of random and systematic recall errors and selection bias in case-control studies on mobile phone use and brain tumors in adolescents (CEFALO study). *Bioelectromagnetics*. doi:10.1002/bem.20651
 17. Aydin, D., Feychting, M., Schüz, J., Andersen, T. V., Poulsen, A. H., Prochazka, M., ... Röösli, M.. (2011). Predictors and overestimation of recalled mobile phone use among children and adolescents. *Progress in Biophysics and Molecular Biology*, 107(3), 356–361. doi:10.1016/j.pbiomolbio.2011.08.013
 18. Aydin, D., Feychting, M., Schüz, J., Tynes, T., Andersen, T. V., Schmidt, L. S., ... Röösli, M.. (2011). Mobile Phone Use and Brain Tumors in Children and Adolescents: A Multicenter Case–Control Study. *Journal of the National Cancer Institute*, 103(16), 1264–1276. doi:10.1093/jnci/djr244{Chapter 12}
 19. Baan, R., Grosse, Y., Lauby-Secretan, B., El Ghissassi, F., Bouvard, V., Benbrahim-Tallaa, L., ... WHO International Agency for Research on Cancer Monograph Working Group. (2011a). Carcinogenicity of radiofrequency electromagnetic fields. *The Lancet Oncology*, 12(7), 624–626. doi:10.1016/S1470-2045(11)70147-4
 20. Baan, R., Grosse, Y., Lauby-Secretan, B., El Ghissassi, F., Bouvard, V., Benbrahim-Tallaa, L., ... WHO International Agency for Research on Cancer Monograph Working Group. (2011b). Carcinogenicity of radiofrequency electromagnetic fields. *The Lancet Oncology*, 12(7), 624–626.
 21. Baan, R., Grosse, Y., Lauby-Secretan, B., El Ghissassi, F., Bouvard, V., Benbrahim-Tallaa, L., ... WHO International Agency for Research on Cancer Monograph Working Group. (2011c). WHO International Agency for Research on Cancer Monograph working Group. Carcinogenicity of radiofrequency electromagnetic fields. *Lancet Oncol.*, 12(7), 624–626. doi:10.1016/S1470-2045(11)70147-4
 22. Babo, S.. (2011). Questions on ICNIRP Guidelines. *Health Physics*, 100(4), 443; author reply 443. doi:10.1097/HP.0b013e31820c37af
 23. Bakker, J. F., Paulides, M. M., Neufeld, E., Christ, A., Kuster, N., & van Rhoon, G. C.. (2011). Children and adults exposed to electromagnetic fields at the ICNIRP reference levels: theoretical assessment of the induced peak temperature increase. *Physics in Medicine and Biology*, 56(15), 4967–4989. doi:10.1088/0031-9155/56/15/020
 24. Baldi, I., Coureau, G., Jaffré, A., Gruber, A., Ducamp, S., Provost, D., ... Salamon, R.. (2011). Occupational and residential exposure to electromagnetic fields and risk of brain tumors in adults: a case-control study in Gironde, France. *International Journal of Cancer. Journal International Du Cancer*, 129(6), 1477–1484.

25. Baldi, I., Coureau, G., Jaffré, A., Gruber, A., Ducamp, S., Provost, D., ... Salamon, R.. (2011). Occupational and residential exposure to electromagnetic fields and risk of brain tumors in adults: A case-control study in Gironde, France. *International Journal of Cancer*, 129(6), 1477–1484. doi:10.1002/ijc.25765{Chapter 12}
26. Baliatsas, C., van Kamp, I., Kelfkens, G., Schipper, M., Bolte, J., Yzermans, J., & Lebret, E.. (2011). Non-specific physical symptoms in relation to actual and perceived proximity to mobile phone base stations and powerlines. *BMC Public Health*, 11, 421. doi:10.1186/1471-2458-11-421{Chapter 5}
27. Ballardin, M., Tusa, I., Fontana, N., Monorchio, A., Pelletti, C., Rogovich, A., ... Scarpato, R.. (2011). Non-thermal effects of 2.45 GHz microwaves on spindle assembly, mitotic cells and viability of Chinese hamster V-79 cells. *Mutation Research*, 716(1-2), 1–9. doi:10.1016/j.mrfmmm.2011.07.009{Chapter 12- excluded, p158,190,215}
28. Ball, Philip. (2011). The Dawn on Quantum Physics. *Nature*, 474.
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