CORA-Description of the IARC-Report 2013

1. About

Source

IARC (International Agency for Research on Cancer). Non-ionizing radiation, part 2: radiofrequency electromagnetic fields. IARC Monographs, vol. 102, 2013.

Link

https://monographs.iarc.fr/ENG/Monographs/vol102/mono102.pdf

Supporting information

http://monographs.iarc.fr/ENG/Preamble/CurrentPreamble.pdf

2. Content and Mandate

Objectives

To critically review and evaluate, with the help of international Working Groups of experts, the scientific evidence on the carcinogenicity of RF EMF (hazard assessment, not risk assessment).

EMF spectrum covered

30 kHz - 300 GHz

Status of report and authorship

Document based on the evaluation of an independent interdisciplinary Working Group appointed by IARC.

Funding

No fundig

Accountability

IARC

Summary

Scientific evaluation of (peer-reviewed) research about cancerogenic effects of RF EMF by an independent expert group appointed by IARC.

3. Authorship

Selection of Members

Working Group members selected by IARC on the basis of (i) required expertise, (ii) absence of real or apparent conflicts of interests, (iii) demographic considerations and balance of scientific views.

Composition (institutional)

Working Group: 30 experts in EMF cancer research. Involved to different degrees: invited specialists (2), representatives of agencies (6), observers (5), IARC (30).

Composition (expertise)

All required expertise available in the Working Group.

Impartiality

All candidates were screened for conflicts of interests. In case of real or potential conflicts, candidates are not included into the final group.

Disclosure

Full disclosure of names and affiliations.

Summary

Members are appointed, rules of procedure assure impartiality. Required expertise for the mandated task is available.

4. Assessment Process

Literature search

Types of study considered described. Selection criteria for inclusion or exclusion of papers not explained.

Quality assurance

Yes; bias, confounding and chance of study findings are taken into account.

Weighing of evidence

Formal criteria for categorising RF EMF in one of 5 carcinogenicity groups, taking into account evidence from animal studies, human studies and mechanistic studies.

Consultation activities

No consultation process

Consensus finding

Yes. In case of significant differences among WG members, minority opinions are expressed.

Summary

Standard IARC procedure for literature selection and hazard evaluation. Inclusion/Exclusion criteria not described. Very careful and extensive hazard assessment process.

5. Communication

Differentiation between biological and adverse health effects

Yes

Unbiased descriptions

Yes. The report evaluates all research outcomes of the included studies and identifies uncertainties

Evidence-based conclusions

Yes.

Plain language summary

The "Summary" of the report is quite technical, the "Evaluation" in plain language. For laypersons not familiar with the technical wording of IARC, the evaluation scheme (levels of carcinogenicity) remains vague.

Unbiased summary

Yes

Summary

Balanced description on the analysed scientific data. Identification of inconclusive data and evidence. The overall evaluation / rating for non-specialists difficult to fully understand.