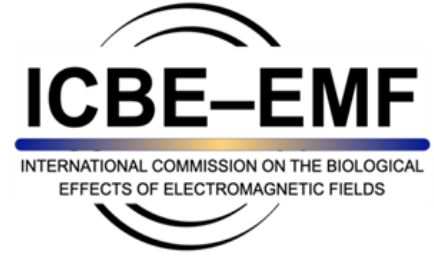


International Commission on the Biological Effects of ElectroMagnetic Fields



-Special Expert-

Kent Chamberlin, PhD

Professor & Chair Emeritus

Fulbright Distinguished Chair

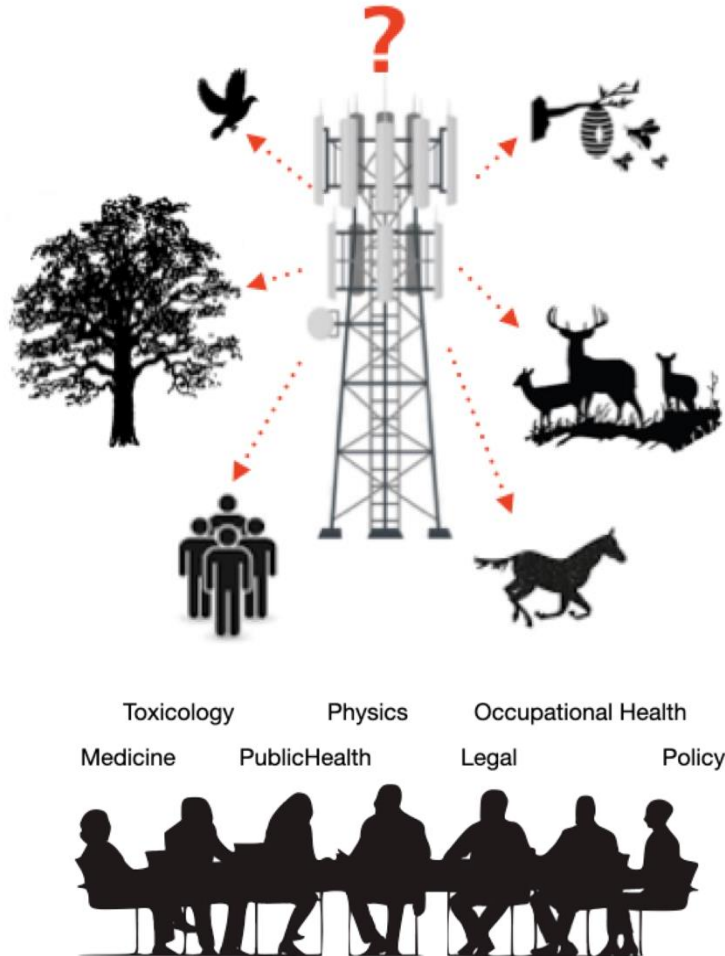
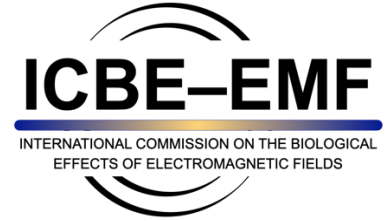
Department of Electrical & Computer Engineering

University of New Hampshire

ICBE-EMF.org

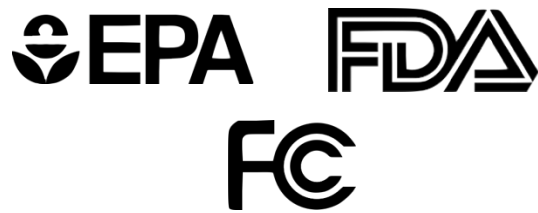


New Hampshire 5G Commission



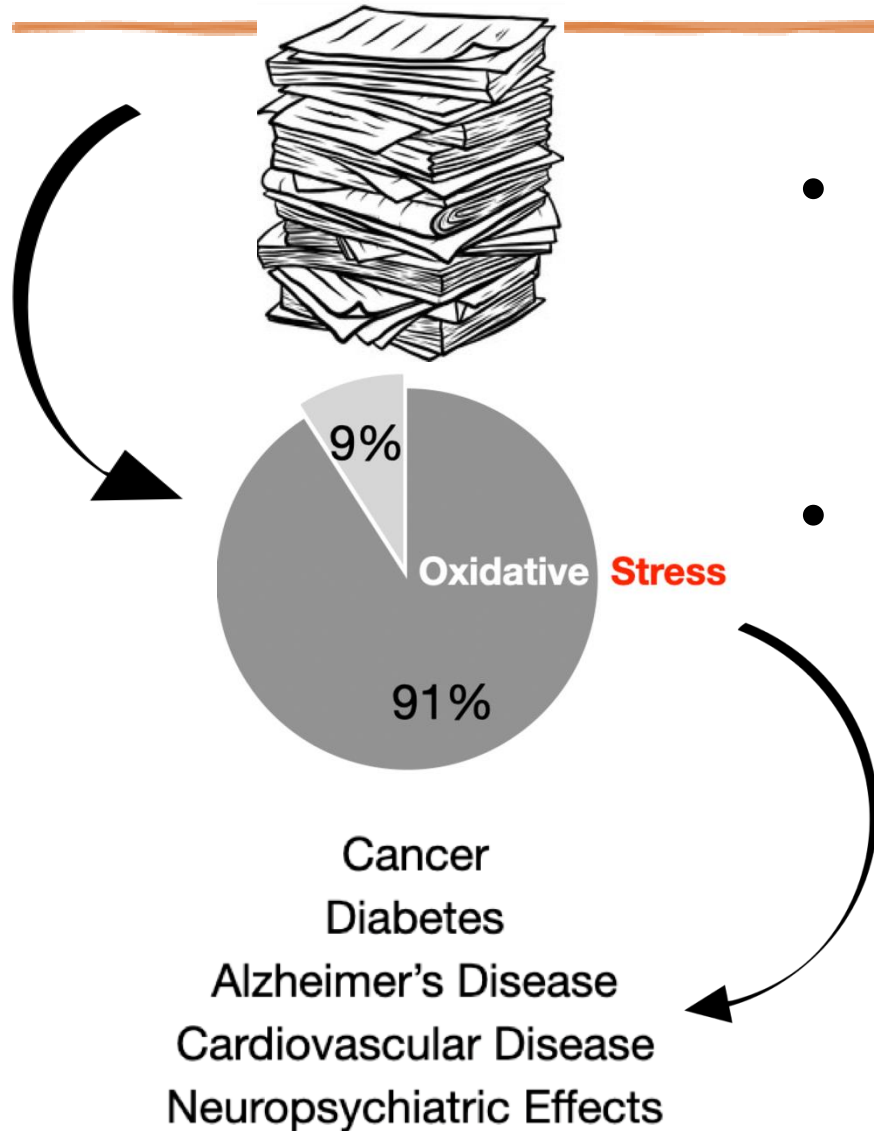
- The **New Hampshire 5G Commission** was convened by the **New Hampshire State Legislature** to determine the truth about the effect of **wireless radiation** on **health and the environment** by bringing together unbiased experts
- The professional backgrounds of the **13 Commission members** included medicine, physics, toxicology, electromagnetics, epidemiology, biostatistics, occupational health, public health policy, business, and law

Information Sources Evaluated by the Commission



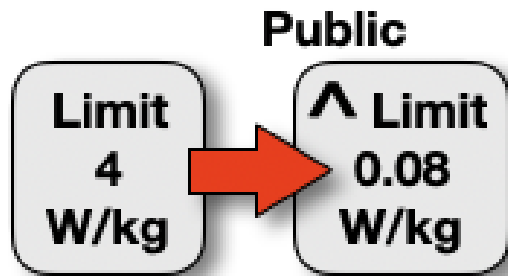
- Peer-reviewed and Commission-vetted, **publications**
- **Federal regulatory agencies** (the FCC, FDA and EPA) were invited to meet with the Commission, but they did not, nor did they provide sufficient answers to our questions.
- **Outside experts**: all presenters except one provided clear evidence that **wireless radiation** poses a threat to human health and the environment.
 - The presenter who did not acknowledge those risks was the presenter from the **telecommunications industry**; he was also the **only person paid to present**.

Outcome of Peer-Reviewed Literature Review



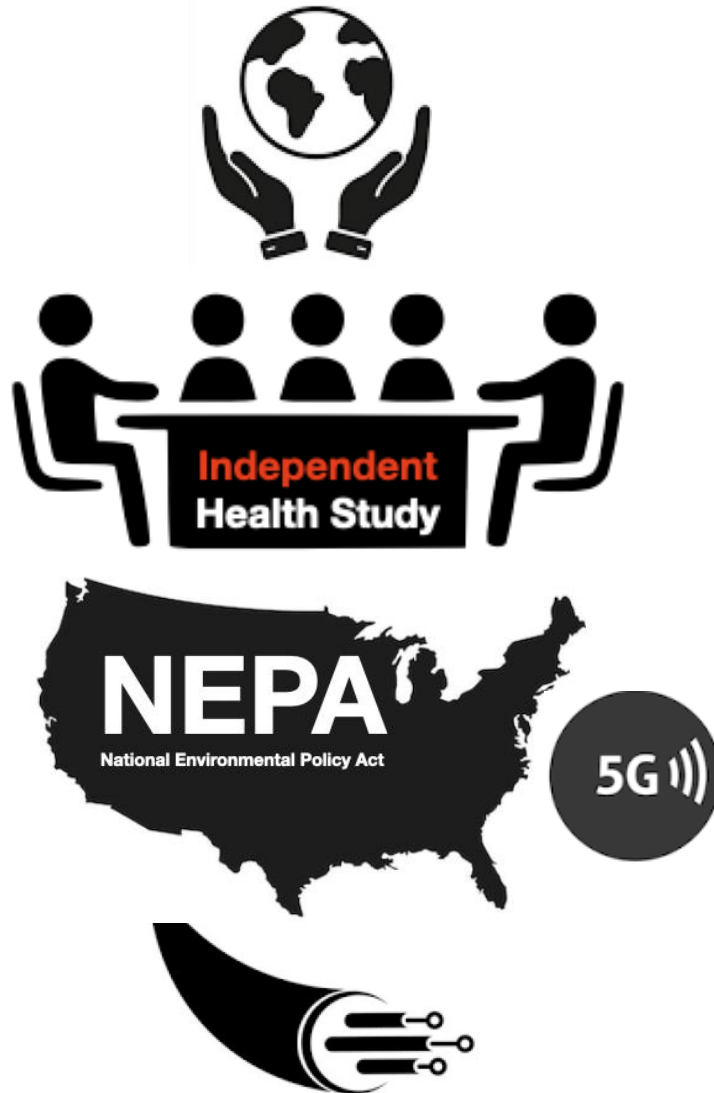
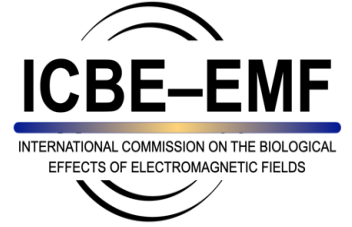
- We identified **hundreds of top-tier peer-reviewed publications** that showed **harm from low-level wireless radiation** exposure.
- The vast majority of these publications showed effects from exposure:
 - **240 out of 261 (91%)** of studies showed **free radical effects** (oxidative damage) resulting from **low-level RFR** exposure
 - **Oxidative stress** is associated with a host of illnesses including **cancer, diabetes, Alzheimer's disease, neuropsychiatric effects, and cardiovascular disease**

How the Current FCC RFR Exposure Guidelines were Set



- Current limits were set in the 1980s and were based on short-term (around an hour) behavioral studies on 8 rats and 5 monkeys
- The assumption made in setting these limits is that, if wireless radiation is not strong enough to warm tissues, it will not cause harm
- The animals were exposed to increasing levels of radiation until they could no longer perform their task. That level was then designated as the threshold dose
- An arbitrary “safety factor” of 50 was then applied to that number to come up with a radiation threshold for the general public

Some of the Commission's Recommendations



- US federal agencies should coordinate “to protect people, wildlife, and the environment” from harmful levels of wireless radiation.
- Congress should require the FCC to commission an independent health study to review safety limits.
- Under the National Environmental Policy Act, FCC should do an environmental impact assessment of 5G and the expansion of RF wireless technologies in the U.S.
- Support statewide deployment of fiber optic cable connectivity with wired connections inside homes.