

## 1.1 WHAT IS SAFETY CODE 6?

Safety Code 6 is Health Canada's guideline for recommended human exposure limits to radiofrequency (RF) electromagnetic energy, the kind of energy given off by various electronic devices such as cell phones and Wi-Fi, as well as broadcasting and cell phone towers.

Safety Code 6 was originally created in the 1970's for the protection of federal employees and visitors to federal buildings

- It has been expanded to include Wi-Fi, smart phones, smart meters and cell phone towers
- It has not had any major revisions in the last 30 years

## 1.2 HEALTH CANADA ADMITS STUDIES SHOW HARM AT LEVELS BELOW SAFETY CODE 6

**Mr. Andrew Adams, Health Canada:** In testimony before the Parliamentary Health Committee admitted there are studies that show harm below Safety Code 6. (1)

**Health Canada document** "determined that 36 studies were of "sufficient quality for inclusion in the Risk Assessment" in the following categories:"

- Cancer is linked in 6 studies,
- Brain/nervous system impacts in 13,
- Biochemical disruption in 16 and
- Development and/or learning behaviour impacts in 7. (2)

## 1.3 CANADA'S SAFETY CODE 6 IS AMONG THE COUNTRIES WITH THE WORST GUIDELINES IN THE WORLD.

China, Russia, Italy and Switzerland have wireless radiation safety limits 100 times safer than Canada. (3)

40% of the world's population lives in countries with codes safer than Canada.

Industry Canada does not measure for the multi-hour, multi-day exposure of today's environment; nor the cumulative effects from multiple devices

Manufacturers have safety warnings that are buried in cell phones and tablets (4)

Over 50 Canadian MD's and international scientists signed declarations stating that the current levels of Safety Code 6 do not protect Canadians (5), (6)

## 1.4 CANADA HAS FALLEN BEHIND COUNTRIES SUCH AS FRANCE, TAIWAN AND BELGIUM IN PROTECTING CANADIANS FROM THE UNSAFE USE OF WIRELESS DEVICES.

January 29, 2015 France passed the following articles into law: (7)

- A ban on the use of Wi-Fi in day care centres and nurseries for children under three years of age

- Wi-Fi must be deactivated when not in active use for digital educational activities in primary schools with Wi-Fi already in place,
- For primary schools without Wi-Fi, a consultation process must be followed. (Primary schools include pre-school, (ages 2 to 6) and elementary school, (ages 6 to 11))
- All advertisements promoting cell phones must demonstrate a device to limit the exposure of the head to radiofrequencies emitted by the cellular phones. ( eg. ear buds or speaker mode)
- A campaign of "awareness and information on the responsible and rational use of mobile devices" will be conducted.

February 15, 2015. Taiwanese lawmakers passed new legislation in which: (8)

- Parents face fines if they allow children under the age of two to use tablets and smartphones
- Youth under 18 years of age are allowed devices for a 'reasonable length of time'

March, 2014. It is illegal to market cell phones to children less than seven years of age in Belgium. (9)

## 1.5 TESTIMONY FROM WORLD RENOWNED EXPERTS TO THE PARLIAMENTARY HEALTH COMMITTEE

Dr. Devra Davis, team member Nobel Prize with Al Gore re climate change (10)

- Damaged and reduced sperm (11), (12)
- ADHD-like symptoms in offspring when pregnant mice exposed to cell phones (13)
- Co-author "The underestimation of cell phone radiation, especially in children" (14)

Dr. Anthony Miller, visiting senior scientist World Health Org., U. of Toronto (15)

- Links to brain cancer referencing Swedish and French studies (16),(17), (18)
- Overview of recent information re breast cancer (19)

Dr. Riina Bray, Women's College Hospital, Dr. Magda Havas, Trent Univ. (20), (21)

- Electrosensitivity can affect 3% of the population in the short term and up to 30% in the long term (22)

Dr. Martin Blank Columbia University (23)

- Proof of DNA damage (24), (25)

Dr. Martha Herbert Ph.D., M.D. Harvard Medical School (26)

- Links to autism (27), (28)

Dr. Meg Sears, Children's Hospital of Eastern Ontario, Ottawa Hospital Research Institute (29)

- Health Canada's recent review of Safety Code 6 fails all major criteria for the evaluation of scientific evidence based on international best practices (30)

## **1.6 SAFETY CODE 6 DOES NOT PROVIDE THE NECESSARY PROTECTION FOR CHILDREN AND PREGNANT WOMEN.**

Children are not “little adults”; their skulls are thinner

The tissues of a child’s head, including the bone marrow and brain absorb significantly more energy than those in an adult head. (31)

Radiation from a cell phone which penetrated 10% of an adult head, would affect 70% of the brain of a five year old. (32)

The Canadian Teachers’ Federation states: “Teachers and school communities have not been informed regarding the implementation of Wi-Fi and any inherent potential hazards. In the absence of a definitive statement regarding the safety of Wi- Fi that addresses concerns raised through social and regular media, teachers are rightly concerned for their personal safety and the safety of the children in their care.” (33)

Safety Code 6 guidelines are based on computer models for heating, not specific human measurements of biochemical changes. (34)

## **1.7 HEALTH CANADA WASTED OVER \$100,000 OF TAXPAYERS’ MONEY. THE ROYAL SOCIETY OF CANADA (RSC) REPORT IS NOT AN INDEPENDENT REVIEW.**

The RSC Expert Panel was conflicted; half of the panel members have strong financial ties to industry. (35)

The original panel chair resigned only after the CMAJ reported an undisclosed conflict of interest. (36)

The RSC invited Dr. Anthony Miller and Dr. Martin Blank as peer reviewers of the report. Their input challenging the report results was ignored. (37)

(1) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7892702&Language=E&Mode=1&Parl=41&Ses=2> at time 1540

(2) [http://www.c4st.org/images/documents/hesa/Health\\_Canada\\_Response\\_to\\_C4ST\\_References\\_of\\_140\\_Missing\\_Studies.pdf](http://www.c4st.org/images/documents/hesa/Health_Canada_Response_to_C4ST_References_of_140_Missing_Studies.pdf)

(3) [http://buildingbiology.ca/media/pdf/rf\\_exposure\\_limits\\_cell\\_antennas.pdf](http://buildingbiology.ca/media/pdf/rf_exposure_limits_cell_antennas.pdf)

(4) <http://www.c4st.org/PMB>

(5) <http://www.c4st.org/images/documents/hc-resolutions/medical-doctors-submission-to-health-canada-english.pdf>

(6) <http://www.c4st.org/images/documents/hc-resolutions/scientific-declaration-to-health-canada-english.pdf>

(7) <http://www.complianceandrisk.com/france-publishes-law-on-electromagnetic-waves/>

(8) <http://www.dailymail.co.uk/news/article-2929530/Does-toddler-play-iPad-Taiwan-makes-ILLEGAL-parents-let-children-two-use-electronic-gadgets-18s-limit-use-reasonable-lengths.html>

(9) [expatica.com/be/news/belgian-news/TMag-Mobile-phones-to-be-banned-for-children\\_259994.html](http://expatica.com/be/news/belgian-news/TMag-Mobile-phones-to-be-banned-for-children_259994.html)

(10) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7945128&Language=E&Mode=1&Parl=41&Ses=2> at time 1640

(11) <http://www.ncbi.nlm.nih.gov/pubmed/15910543>

(12) <http://www.ncbi.nlm.nih.gov/pubmed/22348902>

- (13) <http://www.ncbi.nlm.nih.gov/pubmed/22428084>
- (14) <http://www.sciencedirect.com/science/article/pii/S2213879X14000583>
- (15) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7936469&Language=E&Mode=1&Parl=41&Ses=2> at time 1535
- (16) <http://www.ncbi.nlm.nih.gov/pubmed/23261330>
- (17) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4211006/>
- (18) <http://oem.bmj.com/content/early/2014/05/09/oemed-2013-101754>
- (19) <http://www.hindawi.com/journals/crim/2013/354682/>
- (20) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7945128&Language=E&Mode=1&Parl=41&Ses=2> at time 1530
- (21) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7936469&Language=E&Mode=1&Parl=41&Ses=2> at time 1555
- (22) <http://www.c4st.org/images/documents/cell-tower-situations/Peel-DSB/American Academy of Environmental Medicine Letter to PDSB.pdf>
- (23) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7892702&Language=E&Mode=1&Parl=41&Ses=2> at time 1656
- (24) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2999986/>
- (25) <http://www.ncbi.nlm.nih.gov/pubmed/19268550>
- (26) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7945128&Language=E&Mode=1&Parl=41&Ses=2> at time 1629
- (27) <http://www.ncbi.nlm.nih.gov/pubmed/24095003>
- (28) <http://www.ncbi.nlm.nih.gov/pubmed/24113318>
- (29) <http://www.parl.gc.ca/HousePublications/Publication.aspx?DocId=7892702&Language=E&Mode=1&Parl=41&Ses=2> at time 1540
- (30) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4080517/>
- (31) <http://www.ncbi.nlm.nih.gov/pubmed/18562780>
- (32) <http://www.ece.ncsu.edu/erl/html2/papers/lazzi/1996/NCSU-ERL-LAZZI-96-03.pdf>
- (33) <http://www.ctf-fce.ca/Research-Library/BriefToExpertpanel.pdf>
- (34) <http://www.ncbi.nlm.nih.gov/pubmed/21999884>
- (35) <http://www.cmaj.ca/content/185/11/E515.full?sid=1c87d088-0133-4029-8fdd-101ad78008c6>
- (36) <http://www.cmaj.ca/content/185/12/E573.full?sid=1c87d088-0133-4029-8fdd-101ad78008c6>
- (37) <http://news.nationalpost.com/health/canadian-scientists-urge-more-research-into-safety-of-wireless-technology-saying-recent-report-downgrades-cancer-risk>