



INTERNATIONAL POLICY BRIEFING  
Governments, Health Authorities and Schools  
Enacting Policy to Reduce Radiofrequency Radiation Exposures

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Please email [info@ehtrust.org](mailto:info@ehtrust.org) for comments/updates as we do our best to ensure accuracy but the policy landscape is always changing. This is a living document. The last update was made 7/2018.

## France

**2017: Cell Phones are fully banned - in hallways, lunchroom and playgrounds- in schools through 14-15 years old (elementary and middle).**

- Mobile phones will be fully banned announced the Minister of National Education Jean-Michel Blanquer according to [a news article published in Le Monde](#). The measure was confirmed by the Minister of Education. While France previously banned cell phones in classrooms, this policy includes all locations in the school and is considered a “full ban”.

**2017: The Ministry of Ecological and Solidarity Transition: "mobile phone and health" 2017 campaign** on 6 Behaviors to reduce exposure to radiofrequency radiation.

[Web poster 'Mobile phone. Adopt the 6 good behaviors'](#) [Poster for print 'Mobile phone. Adopt the 6 good behaviors'](#)  
[Web pages 'Mobile Phone and Health' 4 pages print 'Mobile Phone and Health'](#)  
[The Ministry of Ecological and Solidarity Transition Webpage "mobile phone and health"](#)

**Since 2010 French Law has Regulations on Cell Phones**

- Retailers must display SAR Radiation levels for different phone models, the specific absorption rate SAR shall be clearly indicated in French.
- All phones must be sold with a headset and mention should also be made of the recommendation to use the accessory to limit the exposure of the head to radio transmissions during communications.
- [Article 183](#): Cell phone advertising aimed at children younger than 14 is banned. In nursery schools, elementary schools and colleges, the use of a mobile telephone during a teaching activity and in the places provided by the rules of procedure, by a pupil is prohibited.
- Cell phones made for children under 6 are banned “to limit exposure to children”.
- EWG Blog Post: [“French law informs, protects cell phone users”](#)
- [Law No. 2010-788, Article 184](#) [2010 Decree No. 2010-1207 relating to the display of the specific absorption rate of radio terminal equipment](#)

**2016 Report Cell For Reducing Exposure: French Agency for Food, Environmental and Occupational Health & Safety (ANSES) 2016 Report** “Radiofrequency Exposure and the Health of Children” recommends regulatory changes to ensure “sufficiently large safety margins” to protect the health of young children stating:

"ALL wireless devices, including tablets, cordless phones, remote controlled toys, wireless toys, baby monitors and surveillance bracelets, should be subjected to the same regulatory obligations as cell phones."

Recommendations of the Agency: ANSES recommends to "reconsider the regulatory exposure limits" to ensure "sufficiently large safety margins" to protect the health of young children:

- All wireless devices, including tablets, cordless phones, remote controlled toys, wireless toys, baby monitors and surveillance bracelets, should be subjected to the same regulatory obligations as cell phones.
- Compliance with regulatory exposure limits should be insured for the ways that devices are customarily used, such as positioned in contact with the body.
- Exposure limits for radiofrequency electromagnetic fields should be tightened to ensure sufficiently large safety margins to protect the health and safety of the general population, particularly the health and safety of children.
- Reliance on the specific absorption rate (SAR) to set human exposure limits should be re-evaluated and replaced through the development of an indicator to assess real exposures for mobile phone users that applies to various conditions: signal type, good or bad reception, mode of use (call, data loading, etc.), location device is used on the body.
- ANSES reiterated its recommendation, as previously stated, to reduce exposure to children: minimize use and prefer a hands-free kit. The new report has made headlines across the country.
- ANSES Article: "[Radio Frequencies, Mobile Telephony and Wireless Technologies](#)"
- [Press Release on Report](#) (translate into English)
- [Full 2016 Report](#) (French)
- [EHT Press Release on Report](#)

#### **2016 National Decree No. 2016-1074 on the protection of workers against the risks arising from electromagnetic fields**

- It is forbidden to place workers under age 18 in posts where EMF is apt to exceed limit values
- each employer has to evaluate EMF risks.
- When exposure exceeding limit values is detected or when an undesirable or unexpected health effect from exposure to EMF is reported, the worker will benefit from a medical visit.
- The employer must provide information and training to his employees regarding the characteristics of EMF emissions, the direct and indirect biophysical effects that could result from exposure to EMF, etc.
- The employer must adapt as much as possible the post in order to limit exposure to EMF.
- Specific precautions will be taken regarding pregnant women.
- Next Impact News Article: "[As early as 2017, employers will have to protect their employees against electromagnetic waves](#)"
- Inter France News Article: "[Companies will have to protect employees from electromagnetic waves](#)"
- [Decree No. 2016-1074](#)

#### **2015 National Legislation - "Law on sobriety, transparency, information and consultation for exposure to electromagnetic waves." [Original Report](#)**

- **WiFi Banned in Nursery Schools:** WIFI and Wireless devices will be banned in "the spaces dedicated to home, to rest and activities of children under 3 years".
- **WiFi on "OFF" as Default to Minimize Exposures in Schools:** In elementary schools, WIFI routers should be turned off when not in use.
- **Schools Will be Informed:** The school board should be informed when new tech equipment is being installed.
- **Cell Tower Emission Compliance Will Be Verified:** A decree will define the limits of emission of equipments for electronic communications or transmission to which the public is exposed. These values can be verified by accredited organizations and results will be made accessible to the public through a National Radiofrequency Agency.
- **Citizens Will Have Access to Environmental/Cell Tower Radiation Measurements** Near homes: Every resident may get access to the results of measurements for their living space.
- **Cell Antennae Maps For the Country:** A description and map of the places with atypical (higher than the limits) places will be conducted at regular intervals with follow up of the actions being taken to limit the exposure. A map of all antennas will be produced for each town.

- **Continued Evaluation of Health Effects:** The National Radiofrequency Agency will be in charge of surveillance and vigilance, evaluating potential risks and setting up scientific research, including information on health effects.
- **SAR Radiation Labeling Mandated:** The SAR of cell phones must be clearly indicated on the package.
- **Information on Reducing Exposures Mandatory:** Information on ways to reduce exposure will be detailed in the contents of the cell phone package. .
- **WIFI Hotspots will be Labeled:** Places where WIFI is provided should be clearly marked with a pictogram.
- **Advertisements Must Recommend Devices That Reduce Radiation Exposure to the Brain:** Advertising for cell phones should clearly indicate the recommendation of hand free kits for protection of the head of the user and it will be included in the package. Advertising for cell phone not accompanied by such a kit is forbidden. Companies in violation will be fined 75,000 Euros.
- **Children Must Be Provided Protections:** At the request of the buyer, equipment reducing cell phone radiation exposures to the head for children less than 14 years should be provided.
- **The Public Will Be Informed:** Within a year, a policy of information on awareness and information on a responsible and reasonable use of cell phones and other apparatus emitting radiofrequencies will be set up.
- **Electrohyper-sensitivity Report To Be Submitted:** Within a year, a report on electrohyper-sensitivity must be given to the Parliament *according to the law*.
- Le Monde.fr News Article: [“A law to frame exposure to the airwaves”](#)

#### **French Agency for Food, Environmental and Occupational Health & Safety (ANSES) 2013 recommendations for limiting exposure to radio frequencies**

- [Original opinion and report on the Update of the “Radiofrequencies and health” expert appraisal](#)
- Recommends hands free phones, SAR labeling, and “limiting the population's exposure to radiofrequencies... especially for children and intensive users, and controlling the overall exposure that results from relay antennas.”
- ANSES news article: [“ANSES issues recommendations for limiting exposure to radiofrequencies”](#)

#### **French National Public Health Website Informs the Public About How To Reduce Exposure**

The Website hosts [infographics on 8 Ways To Reduce Exposure](#) which include

- 1. Protect children and youth the most.** It is recommended that parents advise their children or teenagers to use their phone only for essential calls. The use of the SMS and the use of the earpiece should also be encouraged by the parents. In addition to these specific tips, other good gestures should also be adopted.
- 2. Telephone with a headset:** By phoning with a headset (wired or bluetooth, wireless), the phone is moved away from the head. It is an effective way of reducing exposure to head waves.  
(EHT Note: Bluetooth still exposes the brain to RF so we do not recommend this.)
- 3. Prefer SMS (Texting):** By using SMS to communicate, one reduces the emission of waves of his telephone. Indeed, to send an SMS, the phone "connects" to the nearest relay antenna only the time to send the message. During a conversation, the phone connects to the nearest relay antenna and renews the connection regularly, especially on the go. The level of emission of waves is therefore more important. Also when sending an SMS, the notebook is away from the head.
- 4. Keep the phone away from electronic implants:** If you wear an electronic implant (pacemaker, insulin pump, neurostimulator ...), keep your mobile phone away from the equipped area. It can disrupt the functioning of your medical device.
- 5. Do not call in areas of poor reception:** The less the network coverage is good, the more your phone emits waves to keep the conversation going. It is therefore recommended not to call in areas where reception is not good: underground car parks, elevators, confined spaces ... Check the number of bars on your phone, it indicates the quality of coverage of the network.  
It is also generally prohibited to call in hospitals and airplanes because of the presence of radio-frequency devices. Your phone may cause interference and interfere with the operation of electronic devices.
- 6. Move the phone away just after dialing:** To limit exposure to waves at the head, you can get into the habit of not approaching the phone in your ear within seconds of dialing. Indeed, it is during these first seconds that the transmission of waves is strongest to find the nearest relay antenna. The level of wave emission then stabilizes.

**7. Avoid calling while traveling at high speeds (car, train, bus).** When moving at high speed, the phone must successively connect to different relay antennas to maintain the conversation. With each search for a relay antenna, the telephone transmits at full power, the level of emission of waves is therefore regularly higher. It is therefore recommended to avoid calling by train, for example. Telephoning while driving is also prohibited and liable to a fine. The danger comes more from the distraction created by the conversation than from the immobilization of a hand.

**8. Read the information in your cell phone manual:** You can find out about the level of exposure to the waves of your mobile phone: this is the DAS, whose display becomes mandatory at the points of sale in April 2011. The DAS (Specific Absorption Rate (SAR)) phones Mobile device quantifies the user's maximum exposure level to electromagnetic waves, for use at the ear. The French regulations require that the DAS does not exceed 2 W / kg. The devices described as "anti-waves" have not proved their effectiveness.

Go to French Government Website which hosts these [8 Ways To Reduce Exposure](#)

### **French National Agency on Frequencies Maintains Information On Cell Tower Radiation:**

The Agence Nationale des Fréquences holds public information on the measurements from base stations. Their website has information on their measurements of electromagnetic fields around base stations and other radio frequency emitters.

[Read a 2016 French News Report on ANSES: "Children: their cognitive functions affected by electromagnetic waves"](#)

### **Over 150 Cities in France have refused Smartmeters**

### **Additional Official Recommendations to Reduce Exposure**

**French Ministry of Solidarity and Health** website on electromagnetic waves. Prior to the 2013 and 2016 recommendations, in 2012 a [Brochure Téléphones mobiles, santé et sécurité](#) (Official Recommendations to reduce exposure: Mobile phones, health and safety) was created to inform public about how to reduce exposure to cell phone radiation. In 2010 [Recommendations were issued on the government website here.](#)

### **The City of Lyon France's Cell Phone Campaign** ["Poster: No Cell Phone Before 12 Years old"](#)

### **Removal of Wifi From French Cities and Buildings**

- The Dacsupap Blog Press Release: ["BNF Renounces WiFi"](#)
- The French National Library along with other libraries in Paris, and a number of universities have removed all Wi-Fi networks.
- ["Removing Wifi from Schools"](#) - Herouville-Saint-Clair has removed all Wi-Fi equipment installed in municipalities.

### **French Government Resources (PDFS In French)**

[State Information Resources on radio frequencies, relay antennas mobile phones](#)

[The Obligations of Mobile Telephony operators-2.pdf](#)

[Experimental workings information- 2.pdf](#)

[Antennas-relais fiche web -3.pdf](#)

[Questions - replies on the rules relay web -1-2.pdf](#)

[French Policy, Legislation and Regulatory Texts](#)

### **Information Posters**

[Conditions of Installing Cell Phone Towers](#)

[Health Effects of Limits](#)

[What are Electromagnetic waves?](#)

[Relay Antennas: Who Does What?](#)

Environmental Health Trust <http://ehtrust.org/>

[Relay Antennas: Did You Know](#)

[Brochure from 2012 Téléphones mobiles, santé et sécurité \(Official Recommendations to reduce exposure: Mobile phones, health and safety\)](#)

### Websites

[Recommendations on cell phone radiation issued on the French government website](#)

[The Ministry of Ecological and Solidarity Transition: "mobile phone and health" 2017 campaign](#)

\*[Public Health France: Website dedicated to informing the public about cell phone radiation](#)

## Belgium

**2014: Ghent Belgium bans wi-fi from pre-schools and day care.** Read the Flanders Today article: "[Ghent bans wi-fi from pre-schools and day care](#)"

### 2013 Federal Public Health Regulations Bans Cell Phones and Advertising Cell Phones for Young Children

- Original Legislation: "[New rules for selling mobile phones: Practical guide for sellers and distributors](#)"
- Phones designed for children under 7 years old are prohibited from sale.
- Total Advertising Ban on cell phones aimed at children under 14.
- Mandatory Radiation SAR levels must be available for consumers at point of sale. Warning label on phones: "Think about your health – use your mobile phone moderately, make your calls wearing an earpiece and choose a set with a lower SAR value."
- Recommendations include use of hands-free methods to keep the phone away from the body such as text messaging and not making calls when the signal is weak, such as in elevator/vehicle.
- Flanders Today News article: "[Belgium bans sale of mobile phones designed for children](#)"
- 2014 Presentation on the "[Implementation of the Council Recommendations in Belgium](#)" by the Ministry of Public Health of Belgium.
- Belgium Governments [frequently asked questions](#) about the new law.
- Press Release by Dr. Moskowitz: "[Belgium Adopts New Regulations To Promote Cell Phone Radiation Safety](#)"
- Lower RF Limits are Precautionary in accordance with advice of the Belgium Health Council.

### 2009 Resolution of the Belgian Parliament - "Introduction of new rules for mobile phone sales"

**[Belgian Health Food and Safety Brochure on Wireless Devices](#): This document discusses everything from DECT home phones to baby monitors to Bluetooth to SAR.**

"Considering that baby monitors can differ so greatly, it is advisable to carefully follow the instruction manual, to place the baby set at a sufficient distance from the crib (at least 1 m) and to use the 'voice activation' setting, among other things."

The **Belgian Foundation Against Cancer** warns that intensive use of a mobile phone can increase the risk of contracting cancer. They suggest that children younger than 12 should not use a mobile phone, and that using a mobile phone as an alarm clock is not desirable because the phone is in close proximity to the head the entire night. The Cancer Foundation also strongly advises people not to use a mobile phone in the car or a train. Read details in the [Mobile Phones Section 7: UK & International regulations](#) by Alasdair and Jean Philips.

### [WHO International EMF Project Report on national activities in Belgium for 2010-2016](#)

- Details the research and legislation activities of Belgium

The Government of the Brussels Capital Region Has Maps of Cellular Antennae: A map of all the locations of antennas is [accessible online](#) with the technical data of each installation.

Environmental Health Trust <http://ehtrust.org/>

## **Flanders Belgium Department of the Environment Website Section on “Radiation: transmitting antennas, WiFi, mobile**

- [Radiation is unhealthy or not?](#)
- [FAQ on transmitting antennas and health](#)

## **Belgian Federal Public Service: Health, Food Chain Safety and Environment Recommends Reducing Exposure**

- [“Wireless Devices”](#) - Document describing regulation for wireless telecommunication equipment, wireless home telephones, baby monitors, wireless on the Internet, bluetooth, and comparison of SAR values
- Specific tips for Wi-Fi installations: “In order to limit the exposure, the following simple measures can be taken: Only switch on your wireless network connection when it is needed. This concerns the wifi adapter in your laptop in particular. Otherwise, your laptop tries to continually connect to the network, and that leads to unnecessary exposure and decreases the life expectancy of the batteries. Place the access point away from places where you spend lots of time.”
- [Tips for prudent use](#) - “So far, it has not been proven that the radiation from mobile phones is harmful to their users. But on the foundation of current scientific knowledge, health risks relating to long-term, frequent mobile phone use cannot be ruled out. Experts – including those on the Superior Health Council – advise everyone to limit their exposure to mobile phone radiation.”
- [Mobile phones and children](#) - “The use of the mobile phone by children is a special point of attention. Children may be more sensitive to radio waves. Children absorb twice as much radiation in the brain than adults do, and 10 times more in the bone marrow of the skull. In addition, due to the popularity of the mobile phone, the cumulative exposure of the current generation of children will be much higher by the time they reach their adulthood than that of the current adults.”
- [Electromagnetic hypersensitivity](#): This webpage contains information about complaints, the state of affairs of the scientific research and advice about what can be done in this situation.
- [Wireless on the Internet](#) “Only switch on your wireless network connection when it is needed. This concerns the wifi adapter in your laptop in particular. Otherwise, your laptop tries to continually connect to the network, and that leads to unnecessary exposure and decreases the life expectancy of the batteries. Place the access point away from places where you spend lots of time.”
- [Brochure electromagnetic fields in Dutch, French and German](#)

## **Spain**

Several autonomous parliaments and numerous municipalities have adopted resolutions that urge the application of the precautionary principle in the field of electromagnetic pollution, e.g. by eliminating/ limiting wireless networks for children, conducting health education and public awareness campaigns, avoiding the implementation of smart meters, and claiming support measures for people affected by central sensitization syndromes.

Institutional statements of some regional parliaments of the Autonomous Communities (Basque Country and Navarre) adhering to [Council of Europe Parliamentary Assembly Resolution 1815](#) (PACE) of 2011 to apply the precautionary principle in relation to EMF exposure.

More and more Spanish schools requests a cable internet connection, and the case of the School Solokoetxe in Bilbao has been significantly discussed in the [Basque Parliament](#) itself in 2015 with scientific advisors provided by the parents' association.

### **The Basque Parliament**

In October 2011, the [Basque Parliament](#) in a Non-Law Motion adheres to PACE Resolution 1815 to "act accordingly ... in favor of health protection" in the field of electromagnetic waves, in particular the conducting of information and awareness campaigns “against the immoderate use of mobile phones among children”.

In April 2013, a [Resolution of the Ombudsman of the Basque Country](#) recommends that the Basque Department of Education implement measures to reduce the levels of radiofrequency emission in schools.



## **The Parliament of Navarra**

In September 2014 the [Parliament of Navarra](#) voted to adhere to PACE Resolution 1815 *The potential dangers of electromagnetic fields and their effect on the environment*, with a resolution urging the Spanish Government and the Navarre Autonomous Community Government to implement the recommendations to apply the precautionary principle in relation to EMF exposure. News Article: [“The Parliament of Navarra urges to remove the WIFI in schools by precaution”](#)

**Since 2012, various institutional declarations have been approved by municipalities** and other local entities requesting the implementation of the recommendations of PACE Resolution 1815:

[Barakaldo](#), [Errentería](#), [Espartinas](#), [Hospitalet](#), [Jerez de la Frontera](#), [San Sebastián](#), [Vitoria](#), [Villa de Plentzia](#), [Cornellá de Llobregat](#), [Torrox](#), [Mula](#), [Villa de Buenavista del Norte](#), [Poio](#), [Arganda del Rey](#), [Cenizate](#), [Hospitalet](#), [Juntas generales de Guipúzcoa](#), [Villava](#),

## **Hospitalet City Council deactivated Wi-Fi:**

In April 2014, the Hospitalet City Council [deactivated the Wi-Fi network](#) of municipal nursery schools, reducing levels in these centers below the limits required by PACE Resolution 1815. In December 2014, the head of the Hospitalet department of education [asked](#) the Department of Education of the Catalonia Autonomous Community to follow the precautionary principle to reduce EMF exposure in Catalan educational establishments.

**The Vitoria-Gasteiz City Council** at its plenary session in September 2015 unanimously [approved a precautionary approach with wireless](#): Citizens will be informed of the location of wireless transmitters are in civic centers and municipal buildings. It is recommended that children’s spaces such as playgrounds and family libraries, will be free of Wi-Fi or have decreased Wi-Fi and Wi-Fi free zones will be established in playgrounds and building entrances.

- El Mundo News Article: [“Victoria ‘cures in health’ against the wifi”](#)

## **Institutional motions regarding people affected by environmental pathologies**

Since 2012, municipal institutional motions have been approved in support of people affected by central sensitization syndromes and / or in favor of prevention and action measures in environmental pathologies: [Vitoria-Gasteiz \(May 2012\)](#), [Pinto \(January 2014\)](#), [Jaén \(December 2014\)](#), [Sant Cugat del Vallès \(September 2014\)](#), [Tarragona \(November 2015\)](#), [Barcelona \(December 2015\)](#), [Vilanova i la Geltrú \(December 2015\)](#), [Terrassa \(January 2016\)](#), [Hospitalet de Llobregat \(March 2016\)](#), [Vilassar de Mar \(March 2016\)](#), [Montcada i Reixac \(March 2016\)](#), [Castellbisbal \(May 2016\)](#), [Badia del Vallés \(April 2016\)](#), [Arenys de Munt \(June 2016\)](#), [Durango \(February 2017\)](#).

**The Tarragona City Council** (Tarragona is a major city 100 kilometres south of Barcelona) at its plenary session in November 2015 unanimously approved the “Institutional Declaration of support for people with Central Sensitivity Syndromes”:

1. Carry out (with a yearly update) a diagnosis and census of those affected by CSS in the City of Tarragona, showing what is the actual situation and the specific needs of these patients and their families.
2. An intervention protocol for the staff of the Area of Services to Citizens of the Tarragona City Government to look after those with CSS- including a list of economic subsidies for food, first necessity elements, reduced water bill, and home help specific to the needs of these patients.
3. Housing protocol for people with CSS, especially those who have MCS and/or EHS, those threatened by eviction or those who are forced to leave their home. This protocol has to include a series of safe social housing (green/white spaces: free of xenobiotics and electromagnetic waves).
4. Create green/white spaces in all municipal buildings (free of xenobiotics and electromagnetic waves).

5. Eliminate, as much as possible, the use of pesticides in the whole of the municipality. In the case when this is not possible, establish a communication protocol to contact those affected and the press regarding the places and dates of the interventions with preventive advice.
6. Training for social workers and educators about CSS, its social, health and economic reality. Elaboration of information and education to increase the knowledge about these illnesses amongst the general population and of the city workers in particular, with the objective of diminishing the stigma that is now present regarding these illnesses.
7. Protocol for adapting working conditions of the municipal workers who have CSS with specific measures of support when having a flare up. These would be the measures: work schedule flexibility, encourage work from home through internet (teleworking), reserved parking spaces and include in the collective agreement not deduct the salary of the first 20 days of sick leave.
8. [Read the full article in Catalan, Spanish and English detailing the actions here.](#)
9. Blog Post: [“GOOD NEWS: FIRST RESCUE PLAN FOR PEOPLE WITH CSS”](#)

**In May 2012, the Galician Association of Biologists** [asks the government of the Autonomous Community of Galicia](#) to apply the precautionary principle to exposure to electromagnetic fields, specifically to protect children: Information on health EMF risks, the ban of the use of mobile phones and Wi-Fi devices in the schools and mobile phone antennas near the schools.

**In May 2016, the Guipuzcoan Association of Pharmacists** of (COFG) and the Guipuzcoan Association of Fibromyalgia and Chronic Fatigue Syndrome Bizi Bide signed [a collaboration agreement](#) of 284 pharmacies in Guipúzcoa to disseminate information and to raise awareness on Central Sensitization Syndromes (Fibromyalgia, Chronic Fatigue Syndrome, Multiple Chemical Sensitivity and Electrohypersensitivity).

#### Smartmeters

- During 2016 and 2017 motions were approved at municipal or provincial level, in Catalonia and Andalusia, against the installation of “Smart meters” (1 and 2): [Sta. Perpetua de Mogada](#) (June 2016), [Diputació de Barcelona](#) (June 2016), [Barcelona](#) (July 2016), [Masnou](#) (September 2016), Hostalet de Pierola (September 2016), [Sta. Coloma de Gramanet](#) (September 2016), [Vallirana](#) (September 2016), Sant Feliu de Guíxols (September 2016), [Celrà](#) (October 2016), [Hostalric](#) (October 2016), Sant Adrià de Besòs (October 2016), Cerdanyola del Vallès (October 2016), Diputació de Girona (November 2016), [Torrelles de Llobregat](#) (November 2016), [San Cugat del Vallés](#) (November 2016), [Hospitalet de Llobregat](#) (November 2016), [Cornellà de Llobregat](#) (November 2016), [La Llagosta](#) (November 2016), Pallejà (November 2016), Polinyà (November 2016), [Monistrol](#) (December 2016), [Rupià](#) (December 2016), [Balaguer](#) (December 2016), [Cervellçó](#) (December 2016), [Vendrell](#) (December 2016), [Esplugues de Llobregat](#) (January 2017), Molins de Rei (January 2017), Cunit (January 2017), [Sant Cebrià de Vallata](#) (January 2017), Caldes de Malavella (January 2017), Prat de Llobregat (February 2017), [Fuente Vaqueros](#) (Granada, February 2017), [Sant Boi de Llobregat](#) (February 2017), [Sant Andreu de la Barca](#) (February 2017), [Sant Quirze del Vallès](#) (February 2017), [Mollet del Vallès](#) (March 2017), [Abrera](#) (March de 2017), [Diputación de Granada](#) (March 2017)

**Since 2011, several court judgments have been approved recognizing the disability to different people affected by electrosensitivity.**

- In May 2011, a judgment of the [Madrid Labour Court nº 19](#) to declare permanent incapacity (100% of his base salary) of a worker Complutense University of Madrid who suffered from chronic fatigue and environmental and electromagnetic hypersensitivity (the EHS is mentioned for the first time in Spain as cause of disability).
- In July 2016, a judgment [Nº 588/2016 of the High Court of Madrid](#) has recognized for the first time a situation of total permanent disability for the exercise of the profession of a telecommunications engineer as result of "electrosensitivity syndrome (EHS)". For the first time in Spain, the EHS condition is considered as the main cause of disability involved. "This is the first we have achieved total disability due exclusively to this syndrome," says attorney Jaume Cortés, the Col·lectiu Ronda. Lavanguardia News Article: [“A 'teleco' with electrosensitivity achieves the inability to work between wifes: The TSJ of Madrid recognizes the right to a benefit denied by the INSS”](#)

Environmental Health Trust <http://ehtrust.org/>



- In February 2017, the [Social Court, number 4, of Castellón](#) has issued a ruling that recognizes, for the first time, a permanent disability in the degree of great disability to a patient who suffers as a clinical picture residual multiple chemical sensitivity and electrosensitivity.
- During the last decades, Regional and municipal regulations were approved to reduce the legal exposure in their territories. Unfortunately, now, the last General Telecommunications Law (2014) eliminated the regional and municipal competences in that area.
- In November 2017 a court in Murcia acknowledged the permanent incapacity for work due to electromagnetic hypersensitivity and chemical sensitivity to a university employee of a university - by the union STERM Intersindical. Read [A judge grants an employee permanent incapacity for work due to electromagnetic hypersensitivity](#)

## Canada

### [Health Canada offers Practical Advice on reducing exposure to wireless radiation](#)

1. Limit the length of cell phone calls
2. Replace cell phone calls with text, use "hands-free" devices
3. Encourage children under the age of 18 to limit their cell phone usage.

### **2015 Canadian Parliament Standing Committee on Health of the House of Commons Report: "Radio Frequency Electromagnetic Radiation and the Health of Canadians"**

- [Original Report](#)
- They made 12 recommendations including an awareness campaign on reducing exposures, improved information collecting and policy measures regarding the marketing of radiation emitting devices to children under the age of 14, "in order to ensure they are aware of the health risks and how they can be avoided."

### **Toronto " Prudent Avoidance Policy for Cell Towers"**

- Toronto's current PA policy was adopted by the Board of Health and City Council in 2008. The Policy was first recommended by the Medical Officer of Health and adopted by the Board of Health in 1999 as a precautionary approach.
- This policy recommended that levels of exposures to radiofrequency (RF) for the general public be kept 100 times below Health Canada's guidelines. [Read Factsheet on Policy](#)

### **2015 National Bill C-648 was Introduced into the House Of Commons**

- An Act Respecting the Prevention of Potential Health Risks From Radiofrequency Electromagnetic Radiation" would require manufacturers of all wireless devices to place specific health warning labels clearly on packaging, or face daily penalties /fines and/or imprisonment. Although the Bill did *not pass*, it made headlines.
- [Bill C-648 Video of Bill Introduced](#)
- [Video of Press Conference Featuring Terrence Young and Frank Clegg](#)
- [Canadians For Safe Technology Press Section Website](#)

### **Canadian Pediatric Association issued a Position Statement Recommending no Screen-based Activities for Children under Two**

- Original Position Statement: [Healthy active living: Physical activity guidelines for children and adolescents](#)
- For healthy growth and development: screen time (eg, TV, computer, electronic games) is not recommended for children under 2 years old. For children 2-4 years, screen time should be limited to <1 h/day; less is better.

### **July 2008: The first policy of its kind in Canada, the Toronto Public Health Department issues Factsheet on Children and Cell Phone Use. [Factsheet PDF](#) [Memo Staff Report By Department](#)**

"Children, especially pre-adolescent children, use landlines whenever possible, keeping the use of cell phones for essential purposes only, limiting the length of cell phone calls and using headsets or hands-free options, whenever possible"

# European Parliament

## 2011 The Parliamentary Assembly of the Council of Europe - Resolution 1815:

- [Resolution 1815: "The Potential Dangers of Electromagnetic Fields and Their Effect on the Environment."](#)
- A call to European governments to "take all reasonable measures" to reduce exposure to electromagnetic fields "particularly the exposure to children and young people who seem to be most at risk from head tumours." The Resolution calls for member states to:
- Implement "information campaigns about the risk of biological effects on the environment and human health, especially targeting children and young people of reproductive age."
- "Reconsider the scientific basis for the present standards on exposure to electromagnetic fields set by the International Commission on Non-Ionising Radiation Protection, which have serious limitations, and apply ALARA principles, covering both thermal effects and the athermic or biological effects of electromagnetic emissions or radiation."
- "For children in general, and particularly in schools and classrooms, give preference to wired Internet connections, and strictly regulate the use of mobile phones by schoolchildren on school premises."

## 2009 European Parliament Resolution: Health concerns associated with electromagnetic fields

- [Original Resolution](#)
- Urges the Commission to review the scientific basis and adequacy of the EMF limits as laid down in Recommendation 1999/519/EC and calls for the review to be undertaken by the Scientific Committee on Emerging and Newly Identified Health Risks
- Calls for particular consideration of biological effects when assessing the potential health impact of electromagnetic radiation, especially given that some studies have found the most harmful effects at lowest levels
- Calls for active research to address potential health problems by developing solutions that negate or reduce the pulsating and amplitude modulation of the frequencies used for transmission

# Australia

## [Mobile Phones and Health Factsheet](#) Recommends Parents Reduce Exposure to Children

"It is recommended that, due to the lack of sufficient data relating to children and their long term use of mobile phones, parents encourage their children to limit their exposure by reducing call time, by making calls where reception is good, by using hands-free devices or speaker options, or by texting." [Mobile Phones and Health Webpage](#), [Mobile Phones and Health Factsheet](#)

The Australian Radiation Protection and Nuclear Safety Agency has issued several Factsheet on Wireless over the years and made substantial changes to these factsheets- *downgrading the concern*.

## Feb 2013 [How To Reduce Wireless Exposure Factsheet 14](#) August 2013 [How To Reduce Wireless Exposure Factsheet 14](#)

### "How to Reduce exposure from mobile phones and other wireless devices."

- Reduce the risk from WiFi devices by "keeping them at a distance, for example placing the wireless router away from where people spend time", and "reducing the amount of time you use them".
- ARPANSA recommends that parents encourage their children to limit their exposure stating that "It is recommended that, due to the lack of sufficient data relating to children and their long term use of mobile phones, parents encourage their children to limit their exposure."
- by reducing call time, by making calls where reception is good, by using hands-free devices or speaker options, or by texting."

Current [March 2015 How To Reduce Exposure Factsheet](#) \* *Cautionary advice further minimized. Recommendations to parents minimized*

Environmental Health Trust <http://ehtrust.org/>

“There is no established scientific evidence that the use of mobile phones causes any health effects. However the possibility of a small risk cannot be ruled out. There are things one can do to substantially reduce exposure. Overall, the evidence suggests that the radiofrequency (RF) electromagnetic energy (EME) emissions of mobile phone handsets are not harmful to the user. However, it’s impossible to be completely sure there isn’t some risk. This is particularly true for children where there is little research evidence. One way to exercise caution is to reduce unnecessary exposure from your handset and to encourage your children to do this. This can be done easily. Remember, it doesn’t have to be for every phone call and in an emergency there are better things to worry about.”

**ARPANSA still recommends that parents encourage their children to limit their exposure** stating that “It is recommended that, due to the lack of sufficient data relating to children and their long term use of mobile phones, parents encourage their children to limit their exposure.” [March 2015 Factsheet](#)

### Past Factsheets

#### [2008 Mobile Phones and Children FactSheet 11](#)

#### Queensland Department of Education, Training and Employment - 2015 [“Guide to Safe Technology”](#)

- It’s not only physical hazards you need to consider when thinking about health and safety issues at work or home — you should also think about how you use technology. When using a computer, you need to think about: ergonomics and posture, radiation, vision impacts and harmful lack of exercise (DVT).
- “Wireless devices — smart/mobile phones, tablets, slates, monitors etc — all emit low levels of electromagnetic radiation and should be used correctly. When using electronic devices, the department recommends you follow WiFi/3G/4G best practice:
- Follow the manufacturer’s usage guideline operate from a table or bench — not on your lap
- Use ‘hands-free’ devices to keep smart/mobile phones away from your head and body during phone calls limit the number and length of calls
- Position the device antenna away from your body
- Do not sit within 0.5 m of a wireless router use smart/mobile phone in areas of good reception to reduce exposure.”
- [Safe use of technology by WFi in Schools Australia - Video](#)
- [Link for 2015 PDF](#)

ARPANSA Website [Mobile Phones and Health](#)

### Other Factsheets

#### **How to Reduce Exposure from Mobile Phones and Other Wireless Devices March 2015**

[Electromagnetic Hypersensitivity](#) “The scientific evidence does not establish that EHS symptoms are caused by exposure to low-level electromagnetic fields.”

## New Zealand

**2016 - [Rotokawa School Takes Steps to Minimize RF Exposure](#):** After concerns were raised about e-learning by a small group of parents from the school, the principal has put some positive procedures in place as follows:

- Children will use ipads in flight mode
- Children using laptops and Chromebooks will work on the desk top
- Parents may request that their child use an Ethernet cord to access the internet
- Children are taught about the health precautions as part of their cyber citizenship
- Digital learning in the one to one Year 5 & 6 environment is kept to less than 2 hours per school day.
- The principal has also stated there are no plans to increase the existing Wi-Fi coverage at this stage.

## Italy

Environmental Health Trust <http://ehtrust.org/>

**2018: The City Council of Bologna unanimously approved an initiative to inform the public about the health risks of cell phone and wireless radiation in light of the NTP and Ramazzini Institute studies.** According to news reports the action calls for the Council to:

- Inform the public about the health risks of cell phone and wireless radiation
- Invite mayor Virginio Merola and the junta "to take action, including with the Emilia-Romagna Region, with the Ausl and the competent institutions, through appropriate communication channels, to launch a public information campaign, so that the population citizen is aware of the risks involved in using mobile phones inappropriately. "
- Proposes to the mayor "to request a commitment in this sense also to telephone companies".

Read June 26, 2018 News Report [bologna.repubblica.it](http://bologna.repubblica.it) "[The telephone companies inform about the risks of the mobile phone": the appeal from Bologna](#)"

**2018: The Ramazzini Institute of Bologna has developed materials to share to high school students on how to reduce exposure to cell phone radiation.** Click here to download PDF.

**2017 Decree of the Environment Minister has recommendations on reducing EMF.**

Section 2.3.5.4 of the Decree recommends reducing exposure to indoor electromagnetic pollution

- **Reduce low frequency magnetic fields:** "In order to reduce as far as possible the indoor exposure to low frequency magnetic fields (ELFs) induced by electrical panels, uprights, conductor dorsals, etc." the design of the plants must provide that meters and electric panels are outside the building and take measures to reduce levels.
- **Reduce Radio frequency radiation:** Reduce as much as possible the indoor exposure to high-frequency magnetic fields (RF) equip with alternative data transfer systems to wi-fi, eg. cable connection or Powerline communication (PLC) technology.
- This was started by a Communication by ECC ([COM\(2003\) 302](#)), to European Parliament about: Integrated Product Policy: Develop the concept of "environmental lifecycle.
- [Read the 2017 Decree of the Environment Minister page 20-21.](#)

News on the Directive: "[Replace The WiFi Dangerous With Safer Wiring: It Is Law But No One Knows!](#)" Di [Maurizio Martucci, July 11, 2017](#)

**Occupational Safety Database:** National [database](#) of emission levels of equipment funded by Ministry of Health, regarding occupational exposure to physical agents including EMF [www.portaleagentifisici.it](http://www.portaleagentifisici.it)  
The site is managed and upgraded by INAIL, in cooperation with Tuscany regional authority, and local occupational safety and prevention Departments of Siena and Modena cities. The development of the web site is absolutely relevant in the frame of public information activities, specifically designed for occupational safety.

**2017: The Italian Court of Ivrea ruling recognizes causal link between cellphone use and brain tumor.**

- Italian court is the first in the world to recognize this causal link in an April 11, 2017 ruling which awarded a Telecom employee, Roberto Romeo, lifetime damages of 500 euros a month after he developed a brain tumor from fifteen years of cellphone use.
- [Original Ruling](#)
- [Press Release](#) EHT
- The Guardian News Article: "[Italian court rules mobile phone use caused brain tumour](#)"
- NY Daily News Article: "[Italian Court Finds Link Between Cell Phone Use and Tumor](#)"
- Courthouse News Service Article: "[Italian Court Finds Link Between Cell Phone Use and Tumor](#)"

**2016: Mayor of Borgofranco d'Ivrea ordered Wi-Fi to be turned off in schools.** "Mayor Livio Tola told the town's high

Environmental Health Trust <http://ehtrust.org/>

school and elementary school to return to using cables to connect to the internet after reading that the electromagnetic waves given off by wireless routers were especially harmful to young children.”

- The Local News Article: [“Italian town shuts down wifi over health fears.”](#)
- Torino News Article: [“Ivrea, The Mayor Removes WiFi as it Could Be Dangerous”](#).

**2015: State Parliament of South Tyrol voted to reconfirm the precautionary principle: The State Government was mandated:**

- To replace existing wireless networks whenever possible with networks that emit less radiation at schools, preschools, hospitals, nursing homes, and other public facilities.
- Establish a working group whose mandate it is to assess these new technologies and their exposure levels. With regard to wireless communication technologies, mobile Internet access, and public health, the working group shall clarify which technologies emit less radiation and provide sustainable technology options and
- To start an education and awareness campaign that informs about possible health risks, especially regarding the unborn, infants, children, and adolescents and that develops guidelines for a safer use of cell phones, smartphones, and Wi-Fi.
- Previous Hearing at the Parliament of South Tyrol, 29 April 2015 - [“hearing on the effects of mobile radio”](#)
- Discussion at the Plenary Session: [“Mobile Communications, Refugees”](#)
- Kompetenzinitiative News Article: [“Parliament of South Tyrol Reconfirms Precautionary Principle”](#)
- [Official Resolution - “WLAN, mobile radio, radiation exposure: does the precautionary principle apply”](#)

**2012 Italian Supreme Court Ruling: Man’s brain tumor was caused by his cell phone use.**

- The National Institute for Workmen’s Compensation must compensate a worker with head tumor due to cell use.
- Reuters News Article - [“Italy court ruling links mobile phone use to tumor”](#)
- RT News Article - [“Cancer cells: Italian court rules ‘mobile phones can cause brain tumors’”](#)
- Daily Mail News Article - [Mobile phones CAN cause brain tumours, court rules in landmark case.](#)

**Lecce, Italy, "Istituto Comprensivo Alighieri- Diaz" School banned wifi:** Their two resolutions decided:

- To ban wifi in school and install a wired system for the use of internet and reject the request of the local government (Municipality) to install an antenna on the school roof for the wireless signal providing for the "Wireless city" program.
- The resolution also asks the Municipality to install the antenna at a reasonable distance from school.

**The Piemonte Region Council adopted a resolution to limit EMF exposure** by limiting the use of wifi in schools and be considerate to the problem of EHS people.

- Original Resolution - [“Adoption of the Precautionary Principle exposition Installations in Wireless Environments in School”](#)

**The Italian Society for Preventive and Social Pediatrics has officially called to prohibit cell phones for children under 10 years old.**

- Giuseppe Di Mauro, president of the Italian Society of social and preventive pediatrics [Società italiana di pediatria preventiva e sociale ([www.sipps.it](http://www.sipps.it))] “We do not know all the consequences associated with cell phone use, but excessive use could lead to concentration and memory loss, increase in aggressiveness and sleep disturbances.” and he cites electromagnetic fields stating “The damage to health are increasingly evident”
- Il Tirreno Tuscany News Article - [“Pediatricians: Phone Alarm for Kids”](#)

**2016 - Turin Mayor Chiara Appendino laid out plans “to cut back on Wi-Fi in state schools and government buildings over concerns that radiation might damage people's health”.**

- The Local News Report [“Turin could slash Wi-Fi over 'radiation' concerns”](#)

## Korea

**Mandatory SAR labeling on cell phones and portable devices:** According to the [2017 WHO EMF Project update by the Republic of Korea](#) a new regulation mandates that SAR labels be affixed to devices that are used in contact with the ear of the consumer.

“The regulation for EMF rating and labelling was enforced from August 1, 2014 (MSIP Notification N o. 2015-16). The operators of radio stations should affix the labels for EMF strength rating in an appropriate place. For portable devices used in direct contact with the user’s ear, those who manufacture or import such devices should affix the labels for SAR rating, and/or display the highest SAR values appropriately.”

### **Public health recommendations to reduce exposure to cell phone radiation**

The Korea government website <http://www.rra.go.kr/emf/> has extensive information on what electromagnetic exposures are in the home and how to reduce exposure. Topics include home, school and base stations.

Some examples of statements on the [guidelines for cell phones](#) (translated by google translate) include:

“Text messaging is safer because it moves farther away from your face than voice calls.

It is safer to use alternating right and left sides of the face rather than talking on one side of the face .

When you are asleep or when you are relaxing, the farther away you are from your body, the safer you are.

If you use handsfree for mobile phone calls, you can reduce the amount of electromagnetic waves absorbed by your head by moving away from your phone”

### **The Korean government webpage on children and EMF has graphics that illustrate how to use cell phones in “safer ways” and states:**

“Children and adolescents are not physically developed yet, and when you use your cell phone as a child , you are exposed to cell phone electromagnetic waves for a very long period of time and can have more impact than if you were an adult .

Electromagnetic waves generated in daily life are weak and do not affect the human body. However, if exposed for a long time, it could be harmful to the human body

“If you sleep with your mobile phone on your bedside, it may interfere with your sleep by ringtone, text message, beep, etc. , and cause sleep disorder. Especially for children, it is best to keep them as far away as possible because they can not take a good night's sleep due to text phone calls etc.

If the base station is far away, or the environment in which radio waves are received, such as basements, becomes weaker, the intensity of the electromagnetic waves of the mobile phone becomes larger and the number of antenna reception indications of the mobile phone becomes smaller.

In closed spaces such as basements, lifts, and deep mountains, the intensity of electromagnetic waves in mobile phones becomes stronger, so it is advisable to refrain from talking as much as possible .”

## **China**

### **Cell Phones banned in primary and middle schools due to increasing myopia among children.**

“Primary and middle school students in Shandong province will not be allowed to use cellphones or tablets in classrooms starting from Nov 1, according to a new regulation.” Asia One [“China bans mobile phones in classrooms”](#) October 10, 2018

## **Sri Lanka**

**Recommendations to reduce exposure:** The Ministry of Health press release signed by Dr. Paba Palihawadana, Director of Health Education and Communication (dated October 5, 2018) informs people of the "serious risks" to the brain and the rest of nervous system in particular. The press release advises people not to keep mobile phones and electronic communication devices in the sleeping areas and to minimize their use.

According to [coverage](#) by the Daily Mirror, Dr. Ayesha Lokubalasooriya of the Sri Lankan Family Health Bureau said in a press conference that, “ long term exposure to electromagnetic waves regularly could create severe health issues”



and she advised to use hands free devices (headsets, earphones) as much as possible to minimize the health issues from mobile devices.

Daily Mirror, "[Switch off mobile devices at night](#)" 10/7/2018

Hiru News, "[Risk of Cancer by Keeping Mobile Phones Near Bed](#)" 10/6/2018

## Finland

### 2015 - Radiation and Nuclear Safety Authority (STUK) recommend reduced exposure to children

- "[Exposure can be reduced by simple means](#)" webpage recommends:
- Use a hands free device, don't use phones reception is poor, the phone should be kept on a table or similar location instead of in the user's pocket.
- "STUK recommends that unnecessary exposure to radiation from mobile phones be avoided. In particular, children's unnecessary exposure should be avoided as their life-long exposure will be longer than that of those who begin using mobile phone as adults and as only scant research exists on health effects to children."
- "[Mobile phones are a major source of radio frequency radiation](#)" webpage states:
- "The level of exposure to radiation from a mobile phone held next to user's ear can approach the exposure limits. *Never before have humans been exposed to equally strong sources of radiation in their living environments.* Identifying any health impacts is highly important because practically everybody uses a mobile phone today."

### 2009 - Radiation and Nuclear Safety Authority (STUK) initially issued recommendations to reduce exposure with more explicit cautionary language.

- Information posted on the STUK website in 2009, now removed. - "[Radiation and Nuclear Safety Authority: Children's mobile phone use should be limited](#)"
- 2009 Policy position paper by STUK detailing why "It would be good to restrict children's use of mobile phones." - "[Statement of Finnish Radiation and Nuclear Safety Authority \(STUK\) concerning mobile phones and health on 7th January 2009](#)"
- 2009 Yle Uutiset News article - "[Authority Recommends Restricting Childrens' Use of Mobiles](#)"

### Finland Schools

- 2012 [Kivioja primary school](#) in Ylivieska Finland bans phones and minimizes Wireless.
- 2017: Wi-fi OFF Switches Installed in the Fiskars primary school. [Read press release.](#)

## Israel

### 2017: Ministry of Education banned personal use of cell phones for teaching and educational staff during teaching hours. [Read english translated memorandum.](#) [Read original Memo in Hebrew](#)

2018 Note\* Newspaper article states "Offer Rimon, [Head of the Technology administration in the Israeli Ministry of Education](#), said that soon, the ban on smart phones' use in schools will be removed." Details at [No Rad For You](#). EHT will update.

### 2016: Ministry of Education banned cell phones during the school day.

- [Original Summary of the Directive](#)
- A computer or tablet are approved for Pedagogical activities and smartphones are not approved until examination of the issue by the Ministry with published Instructions.
- CH10 News Report - "[NEW CEO memorandum - No use of cellphones for learning in class](#)"

### 2016: The Mayor of Haifa calls for the removal of Wi-fi from all schools. Haifa Mayor Yona Yahav, said that "When there

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is a doubt, when it comes to our children, there is no doubt’.

- “The roots of the decision go back to a 2013 petition by parents in four schools who claim that such networks are harmful. The case eventually made its way to the High Court, which has postponed a final decision on the matter...The movement has spread from Haifa to other cities as well, and petitions have been signed by parents in dozens of cities demanding the removal of the networks. Haifa is the first city to take action on the matter. Haifa Mayor Yona Yahav said that the city would replace the wireless network with a wired connection that will provide safer options to students.”
- The school system has developed in house ability to ethernet connect computers in schools, however *in practice*, a few schools are choosing to continue to use wireless despite the ability to be fully hardwired but access is limited.
- [Video of Lecture by Reuven Kurman, BSc, MBA](#), Chief Information Officer, Education Department of Haifa, Israel “*What Can be Done*” - *Reducing Exposure to Children in Schools and at City Level* [PDF of Kurman January 2017 IAS Presentation](#)
- Haifa & Haifa News Report - ["The Wi-Fi in kindergartens and schools in Haifa severed."](#)
- Hamodia News Report - ["Haifa to Shut School Wireless Networks."](#)

### 2016 Israel National Activity Report on EMF's

- The Ministries of Health and Environmental Protection **advise to use, where possible, wired internet** and smart meter monitors connections and to present the consumers with information as to the pros and cons for the chosen technology.
- In 2016, the Ministry of Environmental Protection and Hadassah Academic College conducted research work based on field measurements regarding how to adequately measure Wi-Fi exposures. The main conclusion was that it is advisable to measure both the peak and the average exposure and to use a high rate response measuring probe. Determination of guidelines concerning Wi-Fi measurement is in process.
- A report on Non-Ionizing Electromagnetic Radiation (EMF) was published by the Israel Institute for Occupational Safety and Health in 2016. The report mapped occupational exposures to EMF and suggested regulations to minimize the risk in workplaces.

[2015 Israel National Activity Report](#) details actions being taken to reduce ELF and RF EMF.

- Cellular operators must inform consumers about radiation safety instructions.
- According to a settlement agreement accepted by the Tel Aviv-Yafo District Court in February 2014, cellular operators have to inform buyers of new mobile phone about the radiation safety instructions, including the minimum distances from the head and the body. Hand-free kits must be provided with every new mobile phone and each cellular operator has to provide information on the safe use of mobile phones on its website.

**The Ministry of Health - "Environmental Health in Israel 2014"** details EMF Policy, Science and Need For More Protections. [Original Publication](#)

- “Precautions should be strictly enforced with regard to children, who are more sensitive to developing cancer.” and that “wireless communication networks in schools be reduced.” The Health Ministry recommends “sensible use of cellular and wireless technology, including: considering alternatives like landline telephones, use of a speaker while talking on a cellphone, and refraining from installing the base of wireless phones in a bedroom, work room, or children’s room.” The Report states that “Findings in Israel clearly indicated a link between cellphone use for more than 10 years and the development of tumors in the salivary glands, particularly among people who held the telephone on the same side where the tumor developed and individuals in the highest category of exposure (heavy use in rural areas).”
- Linda S. Birnbaum, Director, USA National Institute of Environmental Health Sciences and National Toxicology Program wrote in the Israeli Report final chapter that, “*If some of the studies turn out to be harbingers of things to come, we may have major health consequences from the nearly ubiquitous presence of wireless equipment.*”

[2013 Ministry of Environmental Protection Publication on recommendations for ELF-EMF](#): The recommendations of the Ministry of Environment and the Ministry of Health maximum permissible level of exposure to ELF in places of prolonged chronic exposure such as schools and residences is 4 mG. This is signed by Prof. Stelian Galberg and states that this protection

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should apply to those under 15 years old.

#### Israeli Ministry of Health Recommends Reducing Exposure to Cell Phone Radiation

- “These expert committees determined that there are indeed gaps in the knowledge concerning the implications of exposure to this radiation, and therefore they called for further studies on the subjects and recommended to adopt the **“precautionary principle”**. This principle adopts simple and relatively cheap means to reduce exposure to the minimum radiation levels possible with existing technology.”
- “In particular, it is recommended to follow precautionary rules in the children population who are typically more sensitive to cancer development due to exposure to cancerous agents...the Ministry of Health advises parents to reduce children’s exposure to mobile phones as much as possible, consider the age they start using them, reduce the amount of time mobile phones are used, and in any event, make sure they use earphones (not wireless) or a speaker when using the mobile phone.”
- TNUDA - “Recommendations for prudent use of cellphones in Israel” Include:
- Using the speakerphone/headset during conversation.
- Keep the phone away from the body.
- Reduce the amount and duration of calls made on a cell phone.
- Areas of low reception equals higher radiation (low cell tower reception, elevator, car, train) Reduce call time in these low reception areas.
- While driving, it is best to talk as little as possible on the mobile phone, and follow the law which bans handheld phones. Inside vehicles, it is advisable to install an antenna outside the vehicle and not inside it, and to prefer wire connections between the phone and the speaker- rather than bluetooth.

#### 2013 - Israeli Ministry Of Education has issued guidelines limiting WiFi radiation in schools.

- Wireless networks banned in preschool and kindergartens.
- 1st. & 2nd. grade internet is limited to max. 3 hr. per week of internet.
- 3rd grade maximum 8 hours a week.
- A hard wired direct cable connection is required if the teacher has a computer in the class.
- Recommendations for reducing magnetic fields to below 4 mG for children under 15 in schools representing the government's position that international guidelines are NOT protective of children.

**Note:** Despite the precautionary recommendations of the Health Ministry and the statements in Education Ministry regulations for the preference of wired (not wireless) networks- the reality is that wireless is still being deployed in schools. ICNIRP limits are presented as the limit for comparison at the same time that it is stated that non-thermal effects and effects from long term exposure are possible. The *actual practice* in Israel is different than *the official stance* and this has prompted strong outcry from doctors, parents and citizens for the government to be accountable to children’s health.

- A 2016 News Report shows the complex picture whereby no agency is assuming responsibility for ensuring protections. Although smartphones are banned as an educational classroom tool, the Education Ministry is still promoting the use of digital tools that are used for Smartphones, such as Kahoot.

#### **2002 Israel Consumer Protection Regulations (information on non-ionizing radiation from a mobile phone)**

- Compulsory cell phone labeling, radiation information provided to consumers. A mobile phone may not be sold unless they comply with the following:
- A clearly visible sticker on cell phone packaging that says, ““This mobile phone emits non-ionizing radiation; details and information about the radiation levels of this mobile phone model and the maximum permissible level of radiation are included in the attached leaflet.”
- The packaging must include an information leaflet in Hebrew, Arabic and Russian with SAR information.
- The information must be clearly displayed to the public at points of sale of mobile phones, service provision centers, websites of manufacturers, suppliers and service providers of mobile phones.
- Israel Environment and Health Fund - “Non-Ionizing Radiation”
- TNUDA - Compulsory Marking/Provision of Information on Non-Ionizing Radiation
- Israel Ministry of Environmental Protection - “Radiation from Cellphones” Webpage

### Notable Israeli News Stories/Videos

- 2016: [TV CH 2 Documentary – “HOW WE ARE KILLING OURSELVES – WIRELESS RADIATION”](#)
- [2016 TV Report on Israeli government on WiFi Health Concerns: For english subtitles click CC.](#)
- ["Health Ministry: Limit Kids' Use of Cell Phones"](#) - 2009 News article on cell phone guidelines in Israel

### Notable History

- [2010 Position Paper on Wireless in Schools](#) by The Cancer & Radiation Epidemiology Unit of the Gertner Institute for Epidemiology & Health Policy Research: “It was agreed by all, that the precautionary principle should be applied in the education arena as was recommended by the Health Ministry...Since there are alternative ways to establish computer networks which are safer and do not require exposure to RF, such as the use of wired technology by connecting directly to a internet-allocated socket, there is no reason to use wireless technologies such as WLAN and Wi-Fi for computer networks in schools...The education system should be instructed, as a matter of principle, to give preference to existing technologies that are relatively safe and simple, such as the use of wired systems instead of using WLAN and WiFi.”
- [“Stop Wi-Fi in schools, deputy health minister implores”](#) - In 2012 Israel's deputy Minister of Health Rabi Litzman stated that he supports a ban on Wi-Fi in schools. Currently the Health Minister is relying on scientific recommendations of Dr. Sadetsky.
- ["2012 Israeli National Activity Report"](#) - States that a joint ministerial committee of the Education & Health & Environmental Protection Ministries gave advice to the Education Minister for ethernet connections in schools- not wireless. The Environmental Protection Ministry asked to limit the use of cell phones in buses and to prohibit the use of cell phones in elevators.
- [“The Israeli Supreme Court Ordered the Israeli Government to Investigate the Number of Children Currently Suffering From EHS.”](#) - In 2013 a court case moved through the the Israeli Supreme Court on Wi-Fi radiation in classrooms. The 2015 Israeli Supreme court decision was that that the court sees no reason to intervene with the (Israeli) Education Ministry deployments of wireless network at schools.

### Israeli Government Links

[Ministry of Environmental Protection Webpage on Non-ionizing Radiation](#), [Interactive Map of Cell Tower Locations](#)  
[Israeli National Information Center for Non-Ionizing Radiation TNUDA](#)  
[Ministry of Health Webpage on Cell Phone Radiation](#)

## Switzerland

**The Switzerland Federal Office for the Environment Webpage Informs Public about EMF and how to reduce exposure.**

- [“Mobile as an electrosmog source”](#)
- [“How strong is mobile radiation?”](#) - Webpage that contains a PDF of tips for mobile phone use from the Federal Office of Public Health and which states “caution should be exercised primarily when using devices held close to the body, such as laptops, PDAs and Internet telephones..” and gives recommendations on how to reduce exposure including turning the Wi-Fi off when not in use, installing the access point one metre away from places where you work, sit or rest for long periods of time and keeping laptops off laps.
- [Factsheets on Electromagnetic Radiation](#). Includes cell phones, baby monitors and WiFi.
  - Place the babyphone at least one meter away from the cot. Do not use devices that send continuously. Set the baby unit to "automatic voice control" or "VOX" mode. If you are using the baby monitor with an AC adapter, make sure there is a distance of 50 cm between the adapter and the cot.
  -
- [March 15, 2015 Saved Mobile Phone Page: Can be translated to English via google.](#)
- [Cordless Phones, WLAN](#)

- Use a wireless hands-free system (headphone, headset) to reduce radiation to the head.□
  - When buying a mobile phone, make sure it has a low SAR□
  - Never use a phone while you are driving a vehicle, not even with a hands-free kit.□
  - Be wary of radiation shields and other such protective devices that are claimed to limit exposure to radiation. They may reduce the connection quality and therefore force the phone to transmit at a higher output power.□
  - People with active medical implants should keep their mobile phone at least 30 cm away from the implant at all times.□
  - Ensure that DECT base units are placed at least 50 cm away from relaxation places or work stations occupied for long periods.□
  - For longer calls, use a corded phone instead, or use a headset. Remember that some corded phones also operate according to the DECT standard and thus produce emissions.□
  - Low radiation DECT telephones are available in specialised shops. There are models where the base station does not emit radiation when the headset is in place and models where the headset reduces radiation if there is a good connection with the base station. More information about this is available in specialised shops or via the following web page:□
  - Only switch your WLAN on when you need it. With laptops, in particular, it is a good idea to switch the WLAN off as otherwise the device will repeatedly try to connect to a network, leading to unnecessary radiation and a shorter battery life.□
  - Don't hold your laptop close to your body while it is connected to a WLAN.□
  - Wherever possible, install the access point one metre away from places where you work, sit or rest for long periods of time.□
  - Position the access point centrally so that all the devices in the network have good reception.□
  - Choose the WLAN g standard in preference to the b standard. Exposure to radiation is lower with this standard because it transmits data more efficiently.□
  - If it is possible to adjust the power of the network, the transmission power should be optimised at the access point for the area that needs to be supplied.□
  - A WLAN transmitter must only be used with an antenna provided for this purpose by the manufacturer. If an unsuitable antenna with an excessive antenna gain is used, the maximum permitted transmission power may be exceeded.□
  - The measures recommended by the FOPH for reducing radiation exposure when using mobile phones apply to WLAN-enabled mobile phones that are used for Internet telephony.□
- [Publications on Electrosmog in the environment](#) - Precautionary protection provided by the installation limit values is limited to locations where people regularly spend lengthy periods of time. Here, long-term exposure shall be kept as low as possible. Places of sensitive use include apart-ments, schools, hospitals, offices and playgrounds, but do not include balconies and roof terraces, stairways, garages, storage and archive rooms, temporary workplaces, churches, concert halls and theatres, camp sites, sports and leisure-time facilities, passenger areas in railways, observation decks.

- [2015 Environmental Report](#) - Chapter 17 on Electrosmog states “Effects can also be detected for weak radiation intensity. For example, weak high-frequency radiation can alter electric brain activity and influence brain metabolism and blood flow. Whether these effects have an impact on health is still unclear” and recommends the precautionary principle to reduce risk “Because major gaps still exist in our knowledge about the health impacts of long-term exposure to weak non-ionising radiation, the adopted protective strategy should be pursued consistently.”
- [2012 Radiation of radio transmitters and Health](#) - *“In view of the fact that there are gaps in the available data, the absence of proof of health risks does not automatically also mean proof of their absence. From the scientific point of view, a cautious approach in dealing with non-ionising radiation is still called for. There remains a need for extensive research into the potential long-term effects”*

### **2017 Letter Issued by the Child and Youth Health Service of Geneva Switzerland on the Health Risks of Use of Digital Technology**

July 2017, the Child and Youth Service of the Department of Public Instruction of Geneva issued a letter on the risks of digital technology to health to be transmitted to all teachers at the start of the school year. The letter reminds us that screens also affect sleep and eyesight, and favor the development of diseases such as type 2 diabetes, cardiovascular disease, and obesity. The letter mentions electromagnetic radiation in the context of cancer risk and the precautionary recommendations by the Federal Office for Public Health regarding use of Wi-Fi- WLAN. The letter includes the recommendations to “Only switch your WLAN on when you need it. With laptops, in particular, it is a good idea to switch the WLAN off as otherwise the device will repeatedly try to connect to a network, leading to unnecessary radiation and a shorter battery life” and “Don’t hold your laptop close to your body while it is connected to a WLAN.”

[Read the translated letter here.](#)

### **Swiss expert group on electromagnetic fields and non-ionising radiation (BERENIS)**

- In Switzerland, the Federal Office for the Environment (FOEN) is the responsible government body for monitoring and assessing research on health effects of non-ionising radiation (NIR) from stationary sources in the environment. The FOEN has nominated *BERENIS - Swiss expert group on electromagnetic fields and non-ionising radiation*- a consultative group of Swiss experts from various disciplines with scientific expertise regarding electromagnetic fields. The BERENIS experts regularly screen the scientific literature, and assess the publications which they consider relevant for the protection of humans from potentially adverse effects. [Regular BERENIS Newsletter and Scientific Updates](#)

### **2008 - The Governing Council of Thurgau Canton Recommends Hard-Wired Schools**

- ["Parliamentary Inquiry on Wireless LAN at Elementary, Junior and Secondary High Schools"](#)
- “The Governing Council recommends for schools to forgo the use of wireless networks when the structural makeup of a given school building allows for a wired network.”
- 2007 [“Decision of the Bavarian Parliament - Protecting Children at School from Radiation Exposures Final Report”](#)

### **Swiss Physicians Association of Doctors for Environmental Protection**

- [2012 Swiss Physicians Letter](#) stating, "the risk of cancer for this type of [wireless] radiation is similar to that of the insecticide DDT, rightfully banned... From the medical point of view, it is urgent to apply the precautionary principle for mobile telephony, WiFi, power lines, etc.”
- [2014: Preliminary draft for a federal law on the protection against dangers:](#) Non-ionizing radiation (NIS) is growing steadily. Especially the everyday stress in the area of low-frequency and high-frequency.
- [2016: Press Release on the NTP Study and Policy Implications:](#) “There are increasingly clear indications that mobile radio is a health hazard. From a medical point of view it is clear: the scientific results so far show it is clear that prudent avoidance of unnecessary exposures is necessary.”
- Report on [Smartphones- \(OEKOSKOP 1/16\)](#)
- [AefU-News about Electrosmog](#)



# Germany

**The Federal Office for Radiation Protection (FORP) Website provides precautionary advice and tips for reducing radiation exposure to smartphones, tablets and wireless devices** stating, “Since long term effects could not be sufficiently examined up to now the Federal Office for Radiation Protection (BfS) recommends to keep exposures to these fields as low as reasonably achievable.”

- [“Electromagnetic Fields” FORP Website](#) ”
- “There are uncertainties in the risk assessment that the German mobile communications research programme has not been able to remove completely. These include in particular: possible health risks of the long-term exposure of adults to high [frequency](#) electromagnetic fields when making mobile telephone calls (intensive mobile use over more than 10 years) & the question of whether the use of mobile phones by children could have an effect on health. For these reasons, the BfS continues to consider that precautionary measures are necessary: exposure to electromagnetic fields should be as low as possible.”
- [“Smartphones and tablets – tips to reduce radiation exposure”](#) Website - which recommends: “It is particularly important to minimise children’s exposure to radiation. They are still developing and could therefore react more sensitively in terms of health.”
- [“Bundesamt warns schools against WLAN networks”](#) - The FORP recommends landline phone instead of mobile phone base stations and that schools should not connect wirelessly to the internet.
- [FORP Public Education Poster “Less radiation when Telephoning”](#)

[The German Federal Ministry](#) for Radiation Protection: Read the [German Parliament 2007 document](#) which states, “supplementary precautionary measures such as wired cable alternatives are to be preferred to the WLAN system.”

## **Bavaria - The State Ministry of Education and Cultural Affairs**

- [2007 Decision of the Bavarian Parliament - Protecting Children at School from Radiation Exposures Final Report](#)
- “For precautionary reasons the Federal Office for Radiation Protection recommends for schools that if a wireless network is used to place its components in suitable locations and to prefer the use of wired network solutions whenever possible.” In 2007 Parliament recommendation to all schools to not install wireless LAN networks.

## **Frankfurt’s Schools Banish Wireless Networks**

- The Local Education Authority did not wish to conduct a “large scale human experiment,” said Michael Damian, spokesperson of the Head of the School Department Jutta Ebeling. “In Frankfurt’s schools there will be no wireless networks in the short or mid term.
- Omega News Article - [“WLAN is to be banished from the school sphere”](#)

## **2013: Four German Federal Agencies issued a guidebook recommending reducing cell phones and Wi-Fi to young children**

- [“Parenting Guide: Environmental and Child Health”](#) by the Federal Office for Radiation Protection (BfS), the Federal Institute for Risk Assessment (BfR), the Robert Koch Institute (RKI ) and the Federal Environmental Agency (UBA). It contains practical information including reducing electromagnetic radiation from baby monitors and telephones: Baby monitors should be as far as possible away from the crib. Phones should be banished from the nursery. They are not suitable toys for infants and toddlers. Use of cabled landline phones is preferable. Wi-Fi routers are not suitable in children's bedrooms, and should be switched off when not in use, especially at night.
- Umwelt Bundesamt News Article - [“Nothing for children's sorts: Thick air in school and home: Federal authorities publish comprehensive advice on children's health”](#)

# Austria

Information on How to Reduce Exposure Health Effects of Electromagnetic Fields at the Homepage of the Federal Ministry of Health and Women's Affairs.

- [Brochure on How to Reduce Exposure](#)
- [Report and Recommendations of the Supreme Medical Council](#)

## **Austria's Highest Health Council of the Ministry of Health Advises to Reduce Exposure to Cell Phone Radiation:**

Brochure states that since the long term research is still not completed, it is advisable to take simple precautions to reduce exposure.

- [Original Brochure](#)
- [WHO Report on Austria's EMF activities and research studies](#)

## **Salzberg Public Health Department Advises Against Wi-Fi in Schools**

- [Original Letter](#)
- "The official advice of the Public Health Department of the Salzburg Region is not to use WLAN and DECT in Schools or Kindergartens." - Gerd Oberfeld, MD.
- The public health department of Salzburg (Landessanitätsdirektion) also recommends to evaluate mobile phone base station exposures based on the [EUROPAEM EMF Guideline 2016](#)
- [Lists Electrosmog studies](#) highlighting the EUROPAEM EMF guideline 2016 as representing the current state of medical science that it is used by the Landessanitätsdirektion Salzburg for the health assessment of EMF.

## **The Vienna Medical Association issued cell phone safety guidelines**

- Guidelines state that cell phones should be used for as short of a time as possible and that children under 16 should not use cell phones at all. They also state that "wireless LAN leads to high microwave exposure".
- Ten Cell Phone Guidelines:
  1. Make calls as short and little as possible - use a landline or write SMS. Children and teenagers under 16 years old should carry cell phones *only for emergencies!*
  2. Distance is your friend- Keep the phone away from body during connection of Phone. Pay attention to the manufacturer's safer distance recommendation in the manual, keep a distance during the call set-up from the head and body. Take advantage of the built-in speakerphone or a headset!
  3. When using headsets or integrated hands-free, do not position mobile phones directly on the body - special caution applies here for pregnant women. For men, mobile phones are a risk to fertility if Mobile is stowed in Trouser pockets. Persons with electronic implants (pacemakers, insulin pumps et cetera) must pay attention to distance. Unless otherwise possible, use coat pocket, backpack or purse.
  4. Not in vehicles (car, bus, train) calls - without an external antenna, the radiation in the vehicle is higher. In addition, you will be distracted and you bother in public transport the other passengers!
  5. During the car when driving should be an absolute ban on SMS and internetworking - the distraction leads to self-endangerment and endangering other road users!
  6. Make calls at home and at work via the fixed corded (not wireless) network - Internet access via LAN cable (eg via ADSL, VDSL, fiber optic) no Radiation, is fast and secure data transfer. Constant radiation emitters like DECT cordless telephones, WLAN access points, data sticks and LTE Home base stations (Box, Cube etc.) should be avoided!
  7. Go offline more often or use Airplane mode - Remember that for functions such as listening to music, camera, alarm clock, calculator or offline games an internet connection is not always required!
  8. Fewer apps means less radiation - Minimize the number of apps and disable the most unnecessary background services on your smartphone. Disabling "Mobile services" / "data network mode" turns the smartphone again into a cell phone. You can still be reached, but avoid a lot of unnecessary radiation by background traffic!
  9. Avoid Mobile phone calls in places with poor reception (basement, elevator etc) as it increases transmission power. Use in poor reception Area a headset or the speakerphone!
  10. For buyers of mobile phones, Look out for a very low SAR value and an external antenna connection!

- [Press Release - "EMF guideline propagates precautionary principle for electromagnetic fields"](#)
- [Translated Poster with Tips](#)

### **Guideline of the Austrian Medical Association for the diagnosis and treatment of EMF related health problems and illnesses (EMF syndrome)**

- [Original Guidelines](#)
- The Austrian Medical Association has developed a guideline for differential diagnosis and treatment of health problems associated with outdoor and indoor electrosmog.

## **India**

### **2012 - The Ministry of Communications and Information Technology issued new EMF guidelines with new Exposure Limits lowered to 1/10 of the ICNIRP level, and SAR labeling on phones.**

“Keeping the precautionary EMF safe exposure limits for the Radio Frequency Field (Base Station Emissions) as 1/10th of the safe limits prescribed by ICNIRP for all areas in India, eliminates the need for fixing lower limits for specific areas like schools, hospitals, residential premises, children playgrounds; a segregation of which is impractical in densely populated localities.” <http://www.dot.gov.in/journey-emf>

- [Official Guidelines](#)
- India Government Precautionary Guidelines for mobile users:
  1. Keep distance – Hold the cell phone away from body to the extent possible.
  2. Use a headset (wired or Bluetooth) to keep the handset away from your head.
  3. Do not press the phone handset against your head. Radio Frequency (RF) energy is inversely proportional to the square of the distance from the source -- being very close increases energy absorption much more.
  4. Limit the length of mobile calls.
  5. Use text as compared to voice wherever possible.
  6. Put the cell phone on speaker mode.
  7. If the radio signal is weak, a mobile phone will increase its transmission power. Find a strong signal and avoid movement – Use your phone where reception is good.
  8. Metal & water are good conductors of radio waves so avoid using a mobile phone while wearing metal-framed glasses or having wet hair.
  9. Let the call connect before putting the handset on your ear or start speaking and listening – A mobile phone first makes the communication at higher power and then reduces power to an adequate level. More power is radiated during call connecting time.
  10. If you have a choice, use a landline (wired) phone, not a mobile phone.
  11. When your phone is ON, don't carry it in chest/breast or pants pocket. When a mobile phone is ON, it automatically transmits at high power every one or two minutes to check (poll) the network.
  12. Reduce mobile phone use by children as a younger person will likely have a longer lifetime exposure to radiation from cell phones.
  13. People having active medical implants should preferably keep the cell phone at least 15 cm away from the implant.

The India Ministry of Communications and Information Technology has an [EMF webpage](#) with EMF information.

**Public Information on Environmental Levels from Base Stations:** The India Department of Telecom has a web portal for mobile tower compliance called Tarang Sanchar.

Environmental Health Trust <http://ehtrust.org/>

- The site contains data from 12.5 lakh base transceiver stations (BTS), and allows users to view tower-specific details such as the operator, the supporting technology (2G/3G/4G) and radiation compliance.
- [Tarang Sanchar website](#)

## Cell Towers Removed Near Schools in India Localities

### 2016: Brihanmumbai Municipal Corporation bans mobile towers at parks, playgrounds

“The Brihanmumbai Municipal Corporation (BMC) in its new policy on regularising mobile towers, has said such towers won’t be allowed on plots reserved for playgrounds, recreational grounds, gardens and parks.” Hindustan Times News Article - [“Brihanmumbai Municipal Corporation \(BMC\) bans mobile towers at parks, playgrounds”](#)

**2015: Zilla Parishad orders removal of all cellphone towers within a 50-metre radius to schools citing exposure to “harmful radiation”.** Kantilal Umap, chief executive officer of Pune Zilla Parishad, said, "We will survey the cellphone towers in all the grampanchayat limits in the district. Notices will be sent to unauthorised towers and those falling within a 50-metre radius from a school's premises. They will have to be moved to another location." [Read Times of India News January 6 2015 article Zilla Parishad orders removal of cellphone towers near schools in district](#)

**2013: State of Rajasthan: Supreme Court of India upheld the 2012 High Court of the State of Rajasthan decision to remove all cell towers from the vicinity of schools, hospitals and playgrounds because of radiation “hazardous to life.”**

- Two hundred and four mobile towers installed on the school premises of Rajasthan have been removed in compliance.
- Economic Times News Article - [“Rajasthan HC orders relocation of mobile towers from schools, hospitals”](#)

### 2013 Mumbai Policy to Prohibit Mobile Towers in Educational Institutions

In August 2013 the city of Mumbai, prohibited cell towers within 100 meters of schools, colleges, orphanages, child rehabilitation centers, and old age homes. It ordered that existing antennas on schools, colleges and hospitals be removed. It also prohibited the installation of antennas on residential rooftops without the consent of every person on the top floor, as well as the consent of 70% of the people in the rest of the building. And it began the process of dismantling 3,200 illegal rooftop towers.

[Policy: REVISED DRAFT POLICY GUIDELINES FOR INSTALLATION OF MOBILE TOWERS IN THE CITY OF MUMBAI first developed in January 2013.](#)

[Read the Indian Express article “State approves policy ban on installation near schools”](#)

### Indian Council of Medical Research Continues research on EMFs:

[“Short Report on the Indian Studies”](#) - Document prepared by Dr. Sharma, Sr. Deputy Director of the Indian Council of Medical Research on Indian Research Studies.

### 2014 Report : [Information paper On Effects of Electromagnetic Field Radiation from Mobile Towers and Handsets 30th by the Telecom Regulatory Authority of India.](#)

- This paper contains a write-up on sources of exposure, effects of Electro-magnetic (EM) exposure on humans, absorption of energy from EM fields and International Commission on Non-Ionizing Radiation Protection (ICNIRP) Guidelines, information on various studies published on effects of EMF radiations and stands taken by various individuals/ bodies.

### Department of Telecom, Government of India

- ["Ensuring Safety from Radiations: Mobile Towers and Handsets"](#) - Graphic including precautionary guidelines for mobile phones [In English](#) [In Hindi](#)

### 2011 Ministry of Environment and Forest Study on the Impact of Communication Towers

Environmental Health Trust <http://ehtrust.org/>

- [“Report on Possible Impacts of Communication Towers on Wildlife Including Birds and Bees”](#)
- *“The review of existing literature shows that the Electro Magnetic Radiations (EMRs) are interfering with the biological systems in more ways than one. There had already been some warning bells sounded in the case of bees and birds, which probably heralds the seriousness of this issue and indicates the vulnerability of other species as well.”*

#### **Celebrity Advocates Raising Awareness**

- Juhi Chawla - who has won multiple awards for her work has taken on the issue of EMF's and received the Indira Gandhi Award for her efforts in raising awareness: [Global Awards 2016](#), [Indira Gandhi Memorial Awards](#), [Full Speech at Gandhi Awards](#), [2011 Lecture](#), [Do's and don'ts for using cellphone safely by Juhi Chawla](#)

#### **[Video Lecture: A Review of epidemiology and toxicology: Dr. R.S Sharma, Dr. Devra Davis and special guest Dr. George Carlo at George Washington University – The Milken Institute School of Public Health](#)**

In a 2015 lecture at George Washington University, Dr. R.S. Sharma, Indian government Senior Deputy Director General & Scientist of the Indian Council of Medical Research, reviewed the research showing genetic damage and health effects from wireless exposures which are informing India's new telecommunications policy. He describes how the government is supporting efforts to reduce exposures.

Slides from Dr Sharma's presentation can be found [here](#).

#### **News Stories**

[Government sets up laboratory at TEC for testing radiation level of mobile phone](#)  
[Youtube Video on India Government Changes on Cell Towers and Cell Phones](#)

## **French Polynesia**

### **2016 Legislation To Protect The Public and Reduce Exposure**

Legislation the country adopted in 2016 prohibits advertising of cell phones to children under 14, prohibits advertising cell phones without showing how to minimize radiation exposure to the head, prohibits wireless in nursery schools, limits wireless in primary schools and reduces exposures to workers.

#### **Summary of the [Law 2016-41 / APF December 8, 2016 on Electromagnetic Radiation](#)**

- Prohibition of advertising that promotes the sale or use of a cell phone to children under fourteen years old. Advertising should clearly and legibly show the limiting of exposure to the head. An offender is liable to a fine not exceeding 8,900,000 F CFP.
- Cell phones may not be marketed without an accessory that limits exposure to the head.
- Recommendations to limit head exposure and SAR levels should be readable and intelligible.
- Wireless is prohibited in nursery schools and spaces dedicated to “reception, rest and activities of children under three years of age.”
- Wireless should be turned to OFF in primary school unless specifically in use for digital activities.
- The government is implementing measurement and monitoring of levels of public exposure to electromagnetic fields throughout the country of French Polynesia.

### **2017 Public Awareness Campaign**

French Polynesia has launched a major public awareness campaign to raise awareness about how to reduce exposure to the electromagnetic radiation from electronics, cell phones, and wireless devices as part of the country's new law to reduce citizens' exposures to electromagnetic radiation exposure.

The multimedia campaign of the French Polynesia Directorate-General for the Digital Economy (DGEN) includes video and graphics promoted on television, radio, and social networking platforms.

A “Best Practices Guide” provides specific recommendations to reduce electromagnetic radiation in order to “protect children and youth.”

#### **Summary of Recommendations to Reduce Wireless Radiofrequency Electromagnetic Radiation ([Best Practices Guide](#))**

- Children under 15 are advised to not use cell phones.
- Distance the phone away from the head.
- Make voice calls with a headset to reduce exposure to the brain.
- Move the mobile device away from electronic implants (pacemaker, Insulin pump, neuro-stimulator, etc.). A mobile device near the implantation area may interfere with the operation of a medical device.
- Do not call in areas of bad reception.
- Avoid carrying your phone in your pants pocket.
- Prefer texting SMS instead of voice calls.
- The base of the home cordless phone emits radiation constantly, so keep it at a distance and use loudspeaker.
- When indoors, prefer to connect to networks outside the building by using your device near a window.
- Distance the phone away from the head after dialing, as wave emission can be the strongest at that time.
- Avoid calling during high-speed travel (in cars or other vehicles) as the phone must emit at full-power to connect successively with different antennas to maintain the connection.
- Place yourself at least 1.50 m from your Wi-Fi box or router, and turn it off overnight. If you are ready to part with it, opt for cable (ethernet) connections (with Wi-Fi capability turned off) or very high-speed fiber optic if possible.

#### **Summary of French Polynesia Recommendations to Reduce ELF Electromagnetic Radiation**

- Do not charge your mobile phone near the bed, distance it as far away as possible.
- Maximize distance from the front of the television or computer monitor.
- Have a professional check home electrical wiring.
- Turn off electricity where no device or appliance is in use.
- Place the wireless baby monitor at least 2 meters (about 6.5 feet) distance from the baby and never in the crib or bed.
- Buy a new microwave oven every five years. Always distance yourself and others at least 1 meter away from the oven and unplug the oven when not using it.
- Distance yourself and others at least 1 to 1.5 meters (3 to 4.5 feet) away from induction stovetop or any appliance capable of generating electromagnetic waves such as your refrigerator.
- Install the electrical panel and large electrical equipment away from rooms and living areas.
- Turn off electrical appliances (by switching off power) when they are not in use, rather than putting them to sleep. This is also a gesture in favor of the environment and your budget.

#### **Workplace Environment**

- Suppression or reduction of risk:  
Select equipment or processes that emit less intense electromagnetic fields, taking account of the work to be carried out. Use other working methods leading to less exposure to electromagnetic fields.
- Collective protection:  
Establish technical or organizational measures to reduce the emission of electromagnetic fields (shielding, distance, locking, etc.).
- Access control:  
Places where the electromagnetic field exceeds regulatory thresholds must be marked, labeled, barred, or marked on the ground in order to limit or control access.



DGEN's video "Electromagnetic Waves: Good Practices" visually depicts how common household electronics – such as a Wi-Fi router, video game console, and wireless baby monitor – emit microwave electromagnetic radiation like cell phone emissions. The campaign also addresses the electromagnetic radiation from electricity-powered alarm clocks and appliances. All multimedia resources are officially provided in both French and Tahitian.

Public Education Video "Good Practices with Electromagnetic Waves"

[DGEN Website on Best Practices For Electromagnetic Waves French](#)

[DGEN Website on Best Practices For Electromagnetic Wave Tahitian](#)

[Watch Public Education Video in French](#)

[Watch Public Education Video in Tahitian](#)

[Watch Public Education Video English Translated by Environmental Health Trust](#)

[Download Best Practices Brochure in French.pdf](#)

[Download Best Practices Brochure in Tahitian Te rará 'ume uira, nāhea e ārai.pdf](#)

[Download the Campaign Poster in French.pdf](#)

[Download the Campaign Poster in Tahitian.pdf](#)

[Download the Law of Country 2016-41 / APF of December 8, 2016 on Electromagnetic Radiation.pdf](#)

### **News Articles on French Polynesia Law on Electromagnetic Radiation**

["Government puts electromagnetic waves under control"](#) Tahiti Infos, August 3, 2017

["Electromagnetic waves: the CESC supports the precautionary principle"](#) Tahiti Infos, July 19, 2016

["Antonio Perez: "Protection of the population and digital development must be compatible"](#) Tahiti Infos July 5, 2016

## **Slovenia**

Slovenia has public exposure limits much stricter than ICNIRP.

Government RF Measurement Campaign informs Public on Radiation Levels

The Government RF Measurement Campaign informs Public on Radiation Levels:

### Advisory Group:

In response to health concerns, Slovenia created an advisory group with representatives of the Ministry of the Economy, the Ministry of Health, the Ministry of the Environment and Spatial Planning, NGOs in the Republic of Slovenia and local communities in the Republic of Slovenia to inform the public about this issue.

### Slovenia Institute for Non-ionizing Radiation webpage:

[Electromagnetic radiation, MOBILE PHONES, AND HEALTH Brochure:](#) Although this brochure states that evidence does not conclude a proven health risk, it does recommend the prudent use of cell phones and provides a long list of measures to reduce radiation exposure including:

- Limit the number and duration of calls.
- Choose a low-SAR mobile phone. Recommendation is that SAR Less than 0,6 W / kg. Data on SAR values of mobile phones are collected At [www.inis.si](http://www.inis.si).
- If possible, use a handsfree kit
- Avoid conversation when the signal is weak (in basements, garages, elevators ...). Move to a place where the signal is strong.

Environmental Health Trust <http://ehtrust.org/>

[Webpage with Government Brochures on various issues related to EMFs](#) such as [Metal Implants](#), Base Stations and more

- [Brochure on Electromagnetic radiation](#) 2014
- This is a report that reviews the issue, shows how Slovenia has RF public exposure limits much stricter than ICNIRP.
- [Brochure on WiMAX](#)
- [Brochure on Cell Phones](#)
- [3819. Regulation on electromagnetic radiation in the natural and living environment, page 5925.](#)

## Russia

### **Russian National Committee on Non-Ionizing Radiation Protection Issued Resolutions to Protect Individuals from Wireless Radiation**

- 2011 Original Resolution - "[ELECTROMAGNETIC FIELDS FROM MOBILE PHONES: HEALTH EFFECT ON CHILDREN AND TEENAGERS](#)"
- Official Recommendations: The Russian Federation specifically advises that those under the age of 18 should not use a mobile phone at all, recommends low- emission phones; and requires the following: on-device labelling notifying users that it is a source of RF-EMF, user guide information advising that "it is a source of harmful RF-EMF exposure" and the inclusion of courses in schools regarding mobile phones use and RF-EMF exposure issues. "Thus, for the first time in the human history, children using mobile telecommunications along with the adult population are included into the health risk group due to the RF EMF exposure....In children, the amount of so-called stem cells is larger than in adults and the stem cells were shown to be the most sensitive to RF EMF exposure....It is reasonable to set limits on mobile telecommunications use by children and adolescents, including ban on all types of advertisement of mobile telecommunications for children."
- 2008 Original Decision - "[Children and Mobile Phones: The Health of the Following Generations is in Danger](#)"
- 2012 - [Video of Russian National Committee](#) Meeting in which they repeatedly warn about electromagnetic radiation impacts on children and recommended WiFi not be used in schools.
- 2010 - [Video](#) of Yuri Grigoriev, President of the Russian National Committee, giving a lecture

## European Environment Agency

### **2013 - EEA Issues "[Late Lessons From Early Warnings: Chapter 12: Mobile phone use and brain tumour risk: early warnings, early actions?](#)"**

- The chapter concludes that "Precautionary actions now to reduce head exposures, as pointed out by the EEA in 2007, and many others since, would limit the size and seriousness of any brain tumour risk that may exist. Reducing exposures may also help to reduce the other possible harms..."

### **2011 - Precautions Recommended by David Gee, EEA Senior Advisor on Science, Policy and Emerging Issues**

- Original document - "[Health risks from mobile phone radiation – why the experts disagree](#)"
- Gee stated in a press release that "We recommend using the precautionary principle to guide policy decisions in cases like this. This means that although our understanding is incomplete, this should not prevent policymakers from taking preventative action."

### **2009 - EEA Issues Recommendations Based on Current Evidence**

- [Original Statement](#)
- "The evidence is now strong enough, using the precautionary principle, to justify the following steps: 1. For governments, the mobile phone industry, and the public to take all reasonable measures to reduce exposures to EMF, especially to radio frequencies from mobile phones, and particularly the exposures to children and young adults who seem to be most at risk from head tumours."

### **2007 - Professor Jacqueline McGlade, the EEA's executive director issued recommendations**

- McGlade stated that "Recent research and reviews on the long-term effects of radiations from mobile

Environmental Health Trust <http://ehtrust.org/>

telecommunications suggest that it would be prudent for health authorities to recommend actions to reduce exposures, especially to vulnerable groups, such as children."

- Independent News Article - ["EU watchdog calls for urgent action on Wi-Fi radiation"](#)

## Singapore

**Singapore's National Environmental Agency posted then removed recommendations to reduce exposure.**

["Frequently asked Questions About Radiation Protection"](#) were removed by 2018 but previously stated the following:

- NEA's advice to the public on cell phone use on their webpage on radiation protection: "While further research is being carried out to study the long-term health effects of RF field, individuals could take precautionary measures to reduce RF exposure to themselves or their children by limiting the length of calls, or using 'hands-free' devices to keep the mobile phones away from the head and body."

### Singapore's [Nanyang Technological University Advice to Limit Cell Phone radiation](#)

The University website page called ["Mobile Phone and Health"](#) which states:

Cell phones do have effects on people. Some people feel headache after talking too long and some hypersensitive people fell sick when the cellphone is turned on. These effects are mainly non-thermal effects and we do have a new explanation. We believe that non-thermal effects are due to the waveforms (causing mechanical vibration) that are determined by the frequency of carrier wave and the modulation that is way to put the information riding on the carrier wave. The principle and effect of modulation may be explained using a very close example, music or sound. Different music and sound have different waveforms, assuming the same small volume one may feel comfortable when listening some music or sound but felt uncomfortable or even sick when listening to some other music or (noise) sound (like scratching glass using something). It has been reported that certain waveforms can be used to cure some mental illnesses such as depression, sleepless, etc. This shows that the nerve system of people could be affected by the waveforms.

"Suggestions" include:

- Shorter conversations.
- Avoid speaking for long periods on the cell phone. Try to plan your calls in such a way that you use ordinary phones for long conversations.
- Speak as little as possible inside the car:
- because the reflection from the car cavity may amplifies the radiation. If you have to speak a lot from the car - get a roof antenna.
- To use plug-in earpiece:
- Plug-in earpiece will separate the antenna further away from your head/body.
- Try a CDMA phone if you are hypersensitive to a GSM one:
- If you fell headache or uncomfortable when using a GSM phone, you may be hypersensitive to the modulation of electromagnetic waves. People are less sensitive to CDMA phones.
- Newer CDMA system works differently than GSM system and doesn't emit the sharp-edged lower frequency pulses. The digital RF signal more resembles a noisy analogue signal and is also likely to be less bio-active. This may also be one reason to push industry to replace GSM systems with CDMA systems.
- [Read Singapore's Nanyang Technological University Webpage on Cell Phones here](#)

## Poland

In April 2016, the Polish government announced they were preparing an Act on protection of the population from the radiation emitted by mobile base stations.

According to the [Telecom News article](#):

Environmental Health Trust <http://ehtrust.org/>

“The Polish Ministry of Digitalisation has announced its preparation of an act on the control of the effects of electromagnetic radiation from radiocommunications devices on human life and health, reports Telko.in. The first consultations are planned for the beginning of May. Discussions on public concerns related to electromagnetic radiation are conducted under the patronage of the President's Office.

After the first round of the discussions, the ministry decided to withdraw the controversial provision on facilitating the placement of radiocommunications devices from the draft amendment of the act to support telecommunications services and network development.

The task of the new consultation group will be discussing the assumptions of the draft act with experts and the public and subsequent preparation of the draft. The group will include representatives of the public sector, the public, telecommunications operators and experts in the field of radio-communications and medicine, namely the Institute of Communications and Collegium Medicum of the University Jagiellonski.

The new acts will enforce supervision of emissions standards, tightening sanctions and increase the influence of the local community on the process of placing new radio communications devices.”

[Read the April 2016 Telecom Article on Poland's Developing Action](#)

On December 2016, a conference was organized by the [National Institute of Telecommunications](#) on “Medical, Biological, Technical and Legal Aspects of Electromagnetic Field Influence on Environment” (see [warsaw-conference-on-emf](#)) and speakers from Poland, Finland and Japan presented the latest research and opinions about EMF technology and health.

[Video's of the lectures are available at the Polish Government website here](#)

Slides from Dariusz Leszczynski's lecture “[Cell Phone Radiation, Health Hazard and Precaution](#)“ are available [on his blog](#).

The first mayor of Kraków to be elected by popular ballot, law professor Jacek [Majchrowski](#) initiated forums for citizens to discuss the growing ‘smog’ of electro-magnetic fields.

### **New Public Education Project of the City of Krakow Poland ”Let's Be EcoDigital”**

- The 2017 events of the “ Let's Be EcoDigital” project included contests for Children and Youth: A Photography Contest “A Day Without My Smartphone” and Literary Contest “A Day Without My Smartphone.
- An eminent Polish artist [Pawel Kuczyński](#) created a series of illustrations presenting satirical view of some difficult aspects of digital reality.
- The “International Day of Protection from Electromagnetic Environmental Pollution” includes a “Family Picnic without Smartphone.” The City also organized an International Forum on Protection from Electromagnetic Environmental Pollution.

#### **Resources on Krakow's EMF Policy and Educational Program**

[Protective Policy Webpage](#): This includes [City Council](#) issued resolutions and visual images of radiation from cellular antennas

["Let's be EcoDigital" - a new project of the City of Krakow News Update](#)

[Protection against electromagnetic fields webpage: Includes Recommendations and Leaflets.](#)

## **United Kingdom**

### **The UK National Health Service recommends reducing exposure since 2002.**

- [2002 Steward Report commissioned by the UK Government - “Phones and Mobile Health - AUK Perspective”](#). The report found that exposure to RF radiation below guidelines has not been “proven” to cause adverse health effects but

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it is not possible to say “that exposure to RF radiation, even at levels below national guidelines, is totally without potential adverse health effects” as “there is some scientific evidence which suggests that there may be biological effects and gaps in knowledge justify a precautionary approach to the use of mobile phone technologies until much more detailed and scientifically robust information on any health effects becomes available.”

- [UK Department of Health - 2005 “Mobile Phones and Health” brochure](#) which reads: “*The expert group has therefore recommended that in line with a precautionary approach, the widespread use of mobile phones by children (under the age of 16) should be discouraged for non-essential calls. In the light of this recommendation the UK Chief Medical Officers strongly advise that where children and young people do use mobile phones, they should be encouraged to:* • use mobile phones for essential purposes only • keep all calls short - talking for long periods prolongs exposure and should be discouraged *The UK CMOs recommend that if parents want to avoid their children being subject to any possible risk that might be identified in the future, the way to do so is to exercise their choice not to let their children use mobile phones.*”
- [NHS 2009 slide presentation - “Radio Waves”](#)
- [2015 Webpage “Risks of mobile phone use”](#) with recommendations that state, “*Children are thought to be at higher risk of health implications from the use of mobile phones. This is because their skulls and cells are still growing and tend to absorb radiation more easily. It is recommended that children use mobile phones only if absolutely necessary.*”
- [National Health Service - 2011 “Mobile Phones and Base Stations”](#) which reads, “*Therefore, as a precaution, the UK Chief Medical Officers advise that children and young people under 16 should be encouraged to use mobile phones for essential purposes only, and to keep calls short. If you are concerned, you can take steps to reduce your exposure such as using hands free kits or texting.*”
- [2011 NHS Brochure - “Mobile phones and base stations: Health advice on using mobile phones”](#), which states: “The body and nervous system are still developing into the teenage years. Therefore, as a precaution, the UK Chief Medical Officers advise that children and young people under 16 should be encouraged to use mobile phones for essential purposes only, and to keep calls short.”
- Prior to 2015, the NHS also had additional website sections on health effects, including [“Mobiles and mums-to-be” web page](#), which summarized the research showing cell phones had been linked to behavioral issues in children. NHS also had a [“Mobile effect on sleep” webpage](#) which detailed research which concluded RF “is associated with adverse effects on sleep quality within certain sleep stages”. For the public, the NHS had “recommendations to help lower any potential long-term risks” which included keeping calls short, keeping the phone away from the body on standby mode, only use the phone when the reception is strong and using a phone with an external antenna. These web pages were deleted from the current site.
- In 2011, the National Health Service offered specific recommendations to reduce cell phone radiation exposure to children. Precautions are still recommended, however by 2015 this original advice was no longer present on the site. **The UK National Health service changed the public advice text. Everything noted *above* was reworded. *Now* the website states:**
- [2015 Mobile Phone Safety - Risks Webpage](#) - “If there are any health risks from the use of mobile phones, children might be more vulnerable because their bodies and nervous systems are still developing. Research carried out to date hasn't supported a link between mobile phone use and childhood cancers such as leukaemia. However, if you have any concerns, you can lower your child's exposure to radio waves by only allowing them to use mobile phones for essential purposes and keeping calls short.”
- The newly edited section called [“Mobile phone safety - FAQs”](#) states: “***Do scientists know everything about mobile phones and health? No, and research is continuing. Mobile phones have only been widely used for about 20 to 30 years, so it's not possible to be so certain about the safety of long-term use. More research on the effects of mobile phones on children is also needed, as they're known to be more sensitive than adults to many environmental agents, such as lead pollution and sunlight. Government advice is to be on the safe side and limit mobile phone use by children.***”
- [2015 Webpage “Risks of mobile phone use”](#) contains recommendations that state, “*Children are thought to be at higher risk of health implications from the use of mobile phones. This is because their skulls and cells are still growing and tend to absorb radiation more easily. It is recommended that children use mobile phones only if absolutely necessary.*”

2016 Regulation No. 588 - “Control of Electromagnetic Fields at Work”

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- [Original Legislation](#)
- The regulation requires employers to assess the levels of EMFs their employees may be exposed to, ensure compliance, provide information on risks and take action if necessary.
- *“You must ensure you take workers at particular risk, such as expectant mothers and workers with active or passive implanted or body worn medical devices, into account when appropriate, devise and implement an action plan to ensure compliance with the exposure limits.”*
- Safety and Health Practitioner News Article - [“Explained: CEFAW Regulations, which come into force today”](#)

### **2012: Marketers are advised not to target mobile phones at children under 16**

The Advertising Standards Agency states:

“Mobile Phones and Children

In response to the Stewart Report on mobile phones and health, the Government has discouraged children from using mobile phones except for essential purposes. Although the ASA has not ruled on the advertising of mobile phones to children, on the basis of the NRPB’s statements, marketers are advised not to target mobile phones at children under 16 by the selection of media, style of presentation, content or context in which they appear unless encouraging vital use only.”

Note: The ASA also ruled that ads that suggested other health effects were “both misleading and likely to cause undue alarm about radiation”

[Read ASA Webpage on Children and Mobile Phones](#), [Listen to radio interview with Karl Muller who raised the complaint leading to the ban.](#)

## **Cyprus**

### **2017 Directive of the Minister of Culture and Education to Ban Wi-Fi from kindergartens, Remove Wi-Fi from Elementary Classrooms and Halt Deployment.**

- [Original Translated Directive from the Cyprus Minister of Culture and Education](#)
- Wireless is recommended only to be used if needed in the administrative areas of elementary schools, not by the students. However, if the use of Wi-Fi is required, “ necessary measures to protect children should be taken, and wireless access points should remain inactive when not in use for teaching purposes.” Furthermore before installation of any wireless program involving teachers or students “the consent of parents should be ensured in advance” the directive reads stating that the director of the school should send a letter to the parents of children who will participate in programs involving wireless technology informing them for the reason and duration of WiFi usage.
- [Read Press release on Cyprus Wi-Fi removal from elementary classrooms](#)

### **Cyprus National Committee on Environment and Child Health**

- ["Protecting children from radiation emitted by Wi-Fi, mobile phones and wireless" Webpage](#)
- [EMF brochure](#) on reducing the risks to children from exposure to the Non Ionizing Radiation (mobile phones, Wi-Fi, tablets, etc.).
- [The Cyprus National Committee on Environment and Child Health](#) is supported by the Nation of Cyprus and “has as its basic aim the prevention of illnesses, which also are related with the exposure of children in environmental dangers.” The activities of the National Committee are supported by the State of Cyprus.
- The National Committee recommends, “Be Precautionary and reduce exposure to phones, Wi-Fi and other wireless devices,” states the Cyprus National Committee on Environment and Child Health (ECH). Dr. Stella Michaelidou, President of the ECH, states that society should respond by taking precautions because “Documentation of other potential and more serious biological side effects are on the tip of an emerging iceberg.”
- An In-Cyprus news article quoted Michaelidou as saying that “multiple and frequent exposure to this kind of radiation, which falls below the acceptable levels of thermal effects, pose a health risk to a developing embryo.” Children who use their mobile phone more frequently face a higher risk at having a weaker memory, attention deficit disorder, and similar issues.
- In-Cyprus News Article - [“Mobile devices could harm kids”](#)



### Public Awareness Videos on How to Reduce Exposures

- **PSA Video on Children's Health and Wi-Fi:** Original Video in [Greek](#) & [English](#)
- **PSA Video on Pregnant Women and Wireless:** Original Video in [Greek](#) & [English](#)
- **PSA Video on Teenagers and Wireless:** Original Video [with English subtitles](#).
- [Youtube channel of the Cyprus Committee](#)

### Public Awareness Educational Brochures

[Brochure on How to Reduce Exposure in English](#)

[Brochure on How to Reduce Exposure in Greek](#)

### Scientific Presentations:

- [2015 Powerpoint Slide Presentation by the President of the Commission, Dr. Stella Kanna Michaelides on EMFs \(in Greek\)](#)
- [Dr Michalis Tornaritis on media use \(in Greek\)](#)
- Dr. Michaelidou of the National Committee gives presentation to Ioannina University: "[Neurological and behavioral effects of Non Ionizing Radiation emitted from mobile devices on children: Steps to be taken ASAP for the protection of children and future generation](#)"
- **Stella Canna-Michaelidou, PhD**, President of the National Committee on Environment and Children's Health of Cyprus, [Multi-Media Public Health Tools to Promote Public and Health Professional Understanding of Wireless Radiation](#) PDF of January 2017 IAS Presentation

### Cyprus Medical Association:

In 2017 the Cyprus Medical Association signed the Nicosia Declaration and issued [Sixteen recommendations](#) to reduce personal exposure were issued, including that children under age 16 should only use cell phones for emergencies, to use airplane mode and turn off wireless antennas in electronics before handing devices to children, to distance the phone away from the body and use wired connections rather than wireless connections. [Read full details at the 2017 press release](#).

### News Reports from Cyprus

- April 2016 - Dr. Michaelidou, President of the Cyprus National Committee, gives presentation: "[Environment and Health of the Child](#)", presenting on the issue of Electromagnetic radiation and its effects on children's health.
- Sigma TV News Report - "[Children and Wi-fi](#)"
- President of the National Committee "Environment and Child Health" with Professor Loukas Margaritis speaking in a news piece. <https://www.youtube.com/watch?v=WumF2qOUKrU>
- 2015 In-Cyprus News Report: [Mobile devices could harm kids](#)
- 9/2015 News Report Cyprus Mail: '[Technology harming our children](#)' MPs say
- [Cyprus Medical Association signs the Nicosia Declaration in 2017](#)

## Argentina

### 2016 Proposed National Law on Electromagnetic Pollution

- The law proposes a regulatory framework to "radio infrastructure with radiant systems, antennas and all installations capable of generating electromagnetic radiation" in order to "ensure the protection of public health" considering "both thermal effects and biological. " In education and health facilities only wired connections to data networks and Internet access may be used.
- [Electrosensibili News Article](#)

# Taiwan

## 2015 - Government Updated their Protection of Children and Youths Welfare and Rights Act to Ban Cell Phones for Young Children.

- Complete ban on children under the age of two from using electronic devices such as iPads, televisions and smartphones.
- Parents can be fined NT\$50,000 (about \$1600 US Dollars)
- The new law also states that parents must ensure that under-18s only use electronic products for a 'reasonable' length of time.
- Daily Mail News Article - "[Taiwan makes it ILLEGAL for parents to let children under two use electronic gadgets... and under-18s must limit use to 'reasonable' lengths](#)"
- Teen Safe News Article - "[Fined For NOT Monitoring: Taiwan's New Parenting Penalty](#)"

# Namibia

## 2011/2012 - Namibia's atomic energy review report states that current so called "safety" standards DO NOT protect citizens from long term health effects.

- [Atomic Energy Annual Review](#)
- "ICNIRP guidelines do not guarantee adequate protection against the long term effects of exposure, such as increased risk of cancer. " - Republic of Namibia:Atomic Energy Board

# Turkey

## The Ministry of Health has issued public information brochures that recommend limiting exposure especially for pregnant women and children.

- [Ministry of Health Brochure Mobile Phones and Health Effects:](#)
- The Brochure starts by saying the research on cell phone radiation shows low levels of electromagnetic frequencies "may cause cancer". 13 Recommendations to Reduce Exposure *which include:* Pregnant women and children (under 16) are more vulnerable and they should use the phone only when necessary, Prefer speaker or headset, Decrease time on phones, Use low SAR phone, Keep phone away from the body, Keep phones out of baby and children's bedroom, Turn phone off when you sleep or keep it one meter away from bedside, using phones in cars increases your EMF exposure so it is not recommended.

## Education on Safer Phone Use Project

- The project is mentioned in the following document: "[Annual Report from Turkey: National Activities on Health Effects of Electromagnetic Fields.](#)"
- Turkey has begun an educational project funded by Ministry of Internal Affairs, accomplished by Temkoder (Prevention, Measurement of Electromagnetic Pollution and Training Organization), which has resulted in secondary school student training in the safer usage of cellular phones.

## Development of regulations prohibiting children's cell phone use. In 2014, the Ministry of Health started working on new regulations to prohibit cellphone usage for children under 14 year-old children.

- [2014 WHO Report - "Annual Report from Turkey: National Activities on Health Effects of Electromagnetic Fields."](#)
- However by 2016 the regulation was weakened and in 2016 Turkey stated that they are developing regulations that only would pertain to children under 7 years old.
- [2016 WHO EMF Report - "Short Report Related to National Activities on Health Effects of Electromagnetic Fields"](#)

## The Ministry of Communications and Maritime Affairs monitors Electromagnetic fields around the schools and homes.

- [Ministry Website](#)
- The EMF in schools is monitored and the public can get measurements on EMF levels from cell towers and schools at a national site.

# Ghana

## Advice of the Radiation Protection Institute of the Ghana Atomic Energy Commission

Dr. Joseph Kwabena Amoako, Ghana's Deputy Director of the Radiation Protection Institute of the Ghana Atomic Energy Commission (holding a PhD in Physics) is advising that children reduce exposure to cell phone radiation.

Read the Business News article "[Long use of mobile phones dangerous for kids](#)" 24th May 2018

"Amoako recommends that if children have to stay on their mobile phones for longer than 40 minutes at a time, it was best to do so using the hands-free kit or break the conversation after 30 minutes and go back to their chat later.

Dr. Amoako explained that children were at risk of cancer and their brain activity affected from the long term use of mobile phones because their immune system was not fully developed.

He said in an interview that constant use of mobile phones by children could affect their brain activity.

"Their sleep pattern could be affected because the electromagnetic fields (electrical waves) from the phones will keep interfering with their sleep."

Read the May 23, 2018 [Long use of Mobile Phones Dangerous for Kids article](#) that states "Children below 15 years have been advised not to spend more than 30 minutes continuously on mobile phone because exposure to it for a long time could expose them to serious health problems."

Dr. Joseph Kwabena Amoako is also coauthor on several published studies on exposures in Ghana entitled "[PUBLIC EXPOSURE TO MULTIPLE RF SOURCES IN GHANA](#)" and "[Assessment of radiofrequency radiation within the vicinity of some GSM base stations in Ghana.](#)"

# Greece

## Greek law mandates lower RF exposures near schools, nurseries and hospitals

- The exposure limits in Greece are at 70% of the official European limits. In areas less than 300 m from schools, hospitals and nurseries the exposure limit is lower at 60% of the official European limits. Cell antennae are prohibited from being on top of schools and nurseries.

## 2012 - The Greek government website materials recommend reducing cell phone radiation to children under 16 and they inform citizens of non-ionizing radiation power levels in their community.

- [The National Observatory of Electromagnetic Fields](#) - Interactive web portal linked to a network of 500 fixed measurement stations throughout Greece that continuously monitor the EMF levels from all kinds of antenna stations in the frequency range 100 kHz – 7 GHz.
- ELF and EMF Site Measurements can be looked up for various locations at [EEAE](#).
- The Greek government funds research as detailed on the [WHO EMF report](#).
- [The Q and A on RF radiation states the following text about children:](#)

*"Even though it hasn't been proven conclusively that children are more sensitive/reactive than adults to exposure to radiation, nevertheless, the direct/pointed recommendation of international organizations is that*

children be discouraged from [literally translated, learn not to trust] using cell phones. The above statement is supported by the following:

1. Up to about the age of 16, the nervous system of the human body is in the process of development. Consequently, it's totally possible (although not conclusively proven by relevant scientific research) that up until this age, human beings are more sensitive to any number of factors/elements/determinants.
2. Younger people have more years ahead of them than older persons during which the long-term effects of mobile phones can be manifested.
3. Environmental factors/elements have a greater general impact on the health of children than on the health of adults."

### **Athens Medical Association**

2017 the Athens Medical Association voted to issue 16 recommendations to reduce human exposure to wireless radiation. [Read the press release here.](#)

#### **16 RULES FOR SAFER USE OF WIRELESS COMMUNICATION**

- Use your cell phone with caution and make brief calls as necessary
- Children under the age of 14 should make limited use of cell phones
- Do not put your cell phone in contact with your head
- Do not use your cell phone inside a car, train, aeroplane, or elevator
- Restrict cell phone use when children or pregnant women are near
- Keep mobile phones away from your body
- When using your cell phone keep a safe distance from others
- Do not carry or keep your cell phone inside your pockets
- At bedtime, disable WiFi on your router and switch off your mobile phone
- Do not play games on-line; and if you will, first switch to airplane mode
- Hands-Free option is always preferable though may not be completely safe
- Wireless connections may increase your exposure to microwave radiation
- Limit WiFi connectivity and use hard-wired connection whenever possible
- When signal strength is weak do not attempt to make a call
- If a corded landline is available make use of this as a preferred option
- Disable WiFi, Bluetooth & Data options from your cell phone and other mobile device(s) when not needed.

[Athens Medical Association website page on Electromagnetic Radiation and Health Conference](#) whereby doctors voted to issue these recommendations.

[PC News Article: Secure Mobile Use Rules and Wi-Fi Connections by the Medical Association of Athens 3/4/2017](#)

## **Chile**

### **2012 “Antennae Law” prohibiting cell antennae/towers in “sensitive areas”**

- [International Bar Association Legal Practice Division Newsletter: “New communications antennae law in Chile”](#)
- ‘Regulates the installation of antennas used for the emission and transmission of telecommunications services’ This law limits the power of antennas, reduces urban impact of towers through ‘infrastructure sharing’ opens up a process for citizen participation in the approval or denial process, establishes mitigation measures in areas that are saturated with antennas and prohibits towers near “sensitive areas” institutions serving children, the elderly and medically compromised.
- Sensitive areas are those areas that demand special protection due to the presence of educational institutions, nurseries, kindergartens, hospitals, clinics, nursing homes or other institutions of similar nature.
- Chile’s Minister of Transportation and Telecommunications Pedro Pablo Kuczynski stated, "...in addition to protecting

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*the urban landscape and the goodwill of the neighborhoods, the new law takes care of the most important: the health of people in a precautionary manner as recommended by the World Health Organization, setting strict limits on the powers of the antennas. Chile is setting standards in this regard.”*

- [Press release](#)
- RCRWireless News Article - “[Chilean telecom companies need to comply with new antenna law](#)”

## Ireland

### Department of the Environment, Community and Local Government Gives Advice to Reduce Exposure

The department has a webpage on Electromagnetic fields which directs people to the advice of the Chief Medical Officer.

- [Advice of the Chief Medical Officer of Ireland.](#)
- “Advice from the Chief Medical Officer on mobile phone use: We may not truly understand the health affects of mobile phones for many years. However, research does show that using mobile phones affects brain activity. There is general consensus that children are more vulnerable to radiation from mobile phones than adults. Therefore the sensible thing to do is to adopt a precautionary approach rather than wait to have the risks confirmed. In the light of these findings, the Chief Medical Officer of the Department of Health and Children strongly advises that children and young people who do use mobile phones, should be encouraged to use mobile phones for “essential purposes only” All calls should be kept short as talking for long periods prolongs exposure to radiofrequency electromagnetic fields. All mobile phone users can reduce their exposure to radiofrequency energy by making fewer calls, reducing the length of calls, sending text messages instead of calling, using cell phones only when landline phones are unavailable, using a wired “hands free” device so that the phone need not be held against the head and refraining from keeping an active phone clipped to the belt or in the pocket”.

### Irish Doctors Environmental Association Recommends Wired Connections

- [2013 Letter](#)
- The Irish Doctors Environmental Association wrote a statement in 2013 concerning health concerns with Wi-Fi in school: “We urge you to use wired technologies for your own safety and that of your pupils and staff.”

## Denmark

### Denmark Board of Health Provides Recommendations to Reduce Exposure

- [Denmark Board of Health Recommendations on Reducing Cell Phone Radiation](#)
- “As a precautionary measure, the Board of Health recommends a series of simple steps you should follow to reduce exposure from mobile phones:
  - Use the headset or handsfree with earbud, conversation, or use the speakerphone feature*
  - When possible, use text instead of call*
  - Limit the duration of calls*
  - Did not sleep with the phone close to the head*
  - Limit conversations during low reception and while in transport.*
  - Do not cover the phone with aluminum foil, special covers, etc.*
  - Compare phones' SAR value. Lower SAR require less exposure*

**Denmark Schools that have removed or reduced wireless exposure;** Bjedstrup elementary School og Børnehus, (school and kindergarten) Student must hand over cell phones before classes + no wifi in school premises; [Hammer Free Private School](#) - all internet connections are hard wired; Vejlernes private school - no wifi; Kastanjely kindergarten - no wifi

## Tanzania

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## 2014 - Director General of Tanzania Atomic Energy Commission (TAEC), Mr Idy Mkilaha publicly endorses precaution.

- "Mr Mkilaha says that when weighing up this convenient tool with the questionable health impact control, caution and measures must be taken to reduce one's exposure from radio frequency (RF) emissions from the cell phone to prevent health hazards."
- "According to TAEC, we should use hands-free devices or wireless headset to increase the distance between the phone and our heads. This is the best approach because it creates distance between us and the radiating phone... We should also keep phone away from us when dialling. Phones use more radiation during connection time, says TAEC."

### News Reports

- AllAfrica News Article: "[Tanzania: We Should Manage Our Cell Phones Properly Otherwise...](#)"
- AllAfrica News Article: [Tanzania: Need to Protect Oneself When Using Cell Phone](#)

### Tanzania Commission for Science and Technology Newsletter Details how to reduce cell phone exposure

- [Original Newsletter \(pg. 11\)](#)
- After complaints were raised by residents about health effects the Commission co-authored a published paper that reviews national RF level profiles of the radiation emitted from base stations.
- [Review on Measured and Calculated Radio Frequency Radiation Emission From The Base Stations](#)
- The paper states: "*In 2016, [Director General of Tanzania Atomic Energy Commission \(TAEC\), Mr Idy Mkilaha died under investigated circumstances](#) and at this time EHT is unable to find the Reports or official warnings as mentioned in the news reports on the current [Atomic Commission](#) webpage.*"

## Romania

### Recommendations Of The Consumers Protection Association Of Romania On Cell Phones And Wireless

- [Recommendations to reduce exposure](#)
- The Association for Consumer Protection in Romania launched a national campaign of information and awareness of consumers entitled "SOS electromagnetic pollution."
- "*Do not allow children younger than 12 years how to use a cell phone, except for emergencies. Developing bodies are more susceptible to negative influences from exposure to electromagnetic fields*".

## United States

Legislation has been introduced at the state and national level. Some Communities have issued proclamations, resolutions and and started initiatives to inform the public of wireless health issues.

**May 12, 2015 Berkeley Adopted the Cell Phone "Right to Know" Ordinance on a Unanimous Vote.** Berkeley is the first city in the nation to require cell phone retailers to provide those who purchase a new phone an informational fact sheet which informs buyers to read the user manual to learn the cell phone's minimum separation distance from the body. The text states:

"The City of Berkeley requires that you be provided the following notice: To assure safety, the Federal Government requires that cell phones meet radio frequency (RF) exposure guidelines. If you carry or use your phone in a pants or shirt pocket or tucked into a bra when the phone is ON and connected to a wireless network, you may exceed the federal guidelines for exposure to RF radiation. Refer to the instructions in your phone or user manual for information about how to use your phone safely."

- ["Right to Know" Ordinance](#) Dr. Moskowitz blog on the Ordinance
- [Berkeley's Right To Know Ordinance](#): Environmental Health Trust's Page on the Ordinance
- [Video of the historic vote](#) featuring Harvard Law professor Lawrence Lessig.
- [Video of testimony to Berkeley](#) from November 8, 2011 on the need for cell phone guidelines.
- [Video of the September 2016 Federal Appeals Court Hearing oral arguments CTIA vs. Berkeley as the CTIA tries to strike down the Ordinance.](#) -- This the hearing considering whether to overturn the district court's decision that denied

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the CTIA's request for an injunction to block Berkeley's cellphone ordinance.

- **October 11, 2017, the 9th U.S. Circuit Court of Appeals denied an *en banc* hearing** to the Wireless Industry's challenge to the Berkeley cellphone right to know act. The CTIA has until January 9, 2018 to petition the Supreme Court for a hearing. [The Court's 10/2017 ruling.](#)
  - [Appeals Court Won't Reconsider Challenge To Berkeley Cellphone Warnings Law, CBS SF Bay Area, October 11, 2017](#)
- Environmental Health Trust's [Powerpoint presentation to Berkeley in 2011 for Cell Phone Ordinance.](#)

## NEWS RESOURCES

- [March 2017 video of CBC's coverage of the Berkeley Ordinance](#) with an investigation finding cell phones tested against the body violate current safety standards.
- [News One: Video on Ordinance](#)

**2014 - Wireless Router Labeling in all Suffolk, NY Public buildings:** Legislation requires all county buildings to post notices that wireless routers are in use such as, "Notice: Wireless technology in use." The resolution, sponsored by Legis. William Spencer (a physician), warns that every wireless device emits radio frequency radiation or microwave radiation. It notes that studies "that have looked at the effects of low-level RFR radiation on human cells and DNA have been inconclusive."

- ["Press Release: Suffolk County Passes Legislation to Warn Visitors of Wireless Radiation Exposure"](#)
- Newsday News Article - ["Wireless routers to get warning signs at Suffolk county buildings"](#)

**2010- A Passed "Right To Know" Ordinance by the City of San Francisco required cell phone retailers to distribute an educational sheet:** Educational sheet created by the San Francisco Department of Environment that explains radiofrequency emissions from cell phones and details how consumers can minimize their exposure. However implementation was blocked after a [three year court battle. The CTIA sued the city](#) and settled with the City to block implementation of the Ordinance in exchange for a waiver of attorney's fees.

- Although implementation was halted, the [City Cell Phone Radiation Webpage](#) remains online.
- [Open Letter to San Francisco Mayor and Board of Supervisors](#)
- Press Release: ["San Francisco's Cell Phone Fact Sheet is Factual"](#)
- [Video from testimony to the City of San Francisco](#)
- [Video of San Francisco Supervisor discussing the Ordinance here.](#)
- [Press conference with survivors speaking on cellphone health risks](#) at the San Francisco Commonwealth Club. Cellphone cancer victims tell their personal stories and those of their lost loved ones.
- San Francisco developed the following public health information resources:
  - City Webpage - ["Cellphones"](#)
  - Answers on [How to reduce exposures](#) to cell phone radiation.
  - A [Poster](#) on Cell Phones and RF Radiation
  - A [Factsheet](#) for the Public
  - [Display stickers](#) for Cell Phone packaging.

## US PUBLIC SCHOOLS

**2017 - Maryland State Children's Environmental Health And Protection Advisory Council Recommendations For Wired Internet In Schools and Minimizing RF Classrooms:**

- [The Maryland State Children's Environmental Health and Protection Advisory Council](#) (CEHPAC) issued a Report advising the Department of Education to recommend local school districts reduce classroom wireless radiation exposures by providing wired—rather than wireless—internet connections.
- The Children's Environmental Health and Protection Advisory Council recommendations:
- "The Maryland State Department of Education should recommend that local school systems consider using wired devices" "WiFi can be turned off" and instead "a wired local area network (LAN) can provide a reliable and secure form of networking...without any microwave electromagnetic field exposure."

- “New school construction and renovations to include wired cabled connections: “If a new classroom is to be built, or electrical work is to be carried out in an existing classroom, network cables can be added at the same time, providing wired (not wireless) network access with minimal extra cost and time.”
- “The Maryland State Department of Education should recommend that local school systems use strategies to minimize exposures: “Have children place devices on desks to serve as barrier between the device and children’s bodies; Locate laptops in the classroom in a way that keeps pupil heads as far away from the laptop screens (where the antennas are) as practicable; Consider using screens designed to reduce eyestrain; Consider using a switch to shut down the router when it is not in use.”
- “The Maryland Department of Health and Mental Hygiene should provide suggestions to the public on ways to reduce exposure: Sit away from WiFi routers, especially when people are using it to access the internet. Turn off the wireless on your laptop when you are not using it. Turn off WiFi on smartphones and tablets when not surfing the web. Switch tablets to airplane mode to play games or watch videos stored on the device.”
- “The General Assembly should consider funding education and research on electromagnetic radiation and health as schools add WiFi to classrooms.”
- The Maryland Department of Health and Mental Hygiene should “ask the United States Department of Health and Human Services to formally petition the FCC to revisit the exposure limit to ensure it is protective of children’s health and that it relies on current science.”
- “The Report should be shared with the United States Department of Health and Human Services, Federal Communications Commission, Maryland State Department of Education and Maryland General Assembly.”
- CEHPAC’s health experts include Governor appointed pediatricians, Maryland State House/Senate appointees and representatives of the Department of Education and Department of Health.

#### LINKS

- [Wifi Radiation in Schools in Maryland Final Report](#)
- [Letters from Physicians CEHPAC’s Public Comments](#)
- [Testimony to the Maryland State Children’s Environmental Health and Protection Advisory](#)
- [Baltimore Sun article by Devra Davis on the Report Recommendations](#)
- [Baltimore Sun response by Dr. Cindy Russell](#)
- Public News Service article on CEHPAC Recommendations
- [Green Gazette Article on CEHPAC Recommendations](#)

#### 2017/2018 - Montgomery County Maryland

In January 2018, the Chief Technology Officer of Montgomery County Maryland, one of the top School Districts in the country shared information on Digital Device Safety to all staff in a memo. Read the Memo here.

##### 1/12/2018 Memo “Digital Safety At School And At Home”

The MCCPTA Safe Technology Subcommittee would like to share the following recommendations for using technology at school and at home. For Students at School:

- Consider placing Chromebooks/laptops on desks and tables rather than in laps;
- Don’t forget to shut down and log off of Chromebooks/laptops when moving from classroom to classroom;
- Consider turning off cell phones and keeping them in backpacks or lockers off when not in use;
- If necessary, take eye breaks, 1-to 2 minutes in length, approximately every 15 minutes;
- Attend to task! Avoid distractions such as reading email, playing games, or browsing the Internet;
- Engage in face-to-face socialization, especially at free time, lunch, and recess;
- Always use the Internet and devices for educational purposes in accordance with MCPS’s responsible use policies;
- Use resources that do not infringe on another’s copyright or trademark rights.

*For Students at Home:*

- “Disconnect” at least one hour before bedtime. This includes all forms of media and requires online-based homework to be done well in advance of bedtime;
- Keep electronic devices out of bedrooms for a sounder sleep.

For Teachers:

- Encourage students, when appropriate, to customize their device screens using tools such as [ScreenShader](#) designed to reduce potential eye strain and fatigue
- Consider providing students with options for good behavior that include physical activity and social interaction rather than “device time”;
- When requested, provide paper alternatives for take-home class work.

Additional Resources:

- Maryland Children’s Environmental Health and Protection Advisory Council (CEHPAC):
  - [https://phpa.health.maryland.gov/OEHFP/EH/Shared%20Documents/CEHPAC/MD\\_CEHPAC\\_SchoolWiFi\\_022017\\_final.pdf](https://phpa.health.maryland.gov/OEHFP/EH/Shared%20Documents/CEHPAC/MD_CEHPAC_SchoolWiFi_022017_final.pdf)
- New Jersey Education Association (NJEA):
  - <https://www.njea.org/minimize-health-risks-from-electronic-devices/> .
  - [http://pediatrics.aappublications.org/content/140/Supplement\\_2/S81](http://pediatrics.aappublications.org/content/140/Supplement_2/S81)
  - <http://www.businessinsider.com/why-its-bad-to-use-your-phone-before-bed-2015-7>
  - [http://pediatrics.aappublications.org/content/140/Supplement\\_2/S92](http://pediatrics.aappublications.org/content/140/Supplement_2/S92)

**2017 The Montgomery County School Chromebook Policy states that laptops should stay on tables and not on laps.**

- [Montgomery County Maryland ChromeBook Guidelines for students.](#)

**2017: Worcester Massachusetts, School Committee voted to approve “precautionary options” to be posted on the Worcester District Website**

[Read the Document entitled “Radiofrequency Radiation Exposure” now posted on Worcester’s School District’s website.](#)

“It is the Administration’s view that existing government regulating agencies should be setting proper exposure levels and offering best practices, such as the EPA and FCC”.

“Based on the guidance from these agencies, the Administration proposes the following:

If you are concerned about radiation or heat from electronic devices, follow these guidelines:

- Consider increasing the distance between electronic devices and your body
- Consider keeping your cellphone, tablet, or laptop in your purse, backpack, or briefcase case instead of keeping it on or close to your body
- If talking on a cellphone, consider using speakerphone or a hands free headset or reduce the number or length of calls
- When not using wireless or Bluetooth, consider shutting off these services on the device or put the device in Airplane mode
- Consider not placing the device directly on your lap. Instead consider placing it on a hard surface such as a desk or bo

Note: This initiative was supported by a local community organization called Worcester Info Team for Health whose Mission Statement was “... to support Worcester decision makers and others in learning about and mitigating the public health risks posed by the rapid roll-out of wireless devices and infrastructure, emphasizing the Precautionary Principle and seeking collaboration on creative solutions.”

[Watch video testimony with excerpts from Worcester School Committee deliberations and vote here.](#)

Press Release on **Worcester Massachusetts precautionary Options**

**News Articles on the Worcester School Committees Actions on Wi-Fi**

- [“The Education Beat: Cell phones: protecting yourself and your children”](#) Worcester Magazine May 18, 20
- [“Worcester school board hesitant but curious about possible WiFi health risk”](#) Telegram.com October 2016
- [Monfredo: How Safe are the Electromagnetic Fields Emitted by Wireless Technology?](#) Go Local Worcester, September 3, 2016

**2016 - Petaluma Public Schools, California USA: Public school district adopts “Digital Device Practices”**

- [Digital Device Best Practices PDF](#)

Environmental Health Trust <http://ehtrust.org/>

- Parents raised the issue of wireless health risks with the district for years and this new policy was put in place in 2016. However- as this policy still does not protect the students health, parents continue to advocate for a safe school environment and signed a petition which can be found at <http://responsibleipad.com/petition.html>
- The Petaluma 2016 iPad Best Practices state: “Keep it on the Desk: The best place for your iPad to sit during use is on a desk, table or other flat surface.”
- [Videos of Parent Testimony to District](#)
- [Child Testimony](#)
- [Doctors Letters to District](#)

## 2016 - Onteora School District in New York State Adopts “Best Practices with Wi-Fi

### Onteora “[Student Acceptable Use of District Technology](#)”

- The [bottom of page 4](#) states: “Best Practices For Wi-Fi: Turn off the device when not in use and at the end of each day. If device is to stay on, turn Wi-Fi off when not in use (switch on side, or airplane mode on iPad). Always place the device on a solid surface Viewing distance should be a minimum of 12 inches from the screen.”

### Onteora “[Employee Acceptable Use of District Technology](#)”

- The [top of page 4 and bottom of page 5](#)” Employees to enforce the “Best Practices For Wi-Fi.” [Meeting Minutes Page 2 \(When Best Practices approval discussed at Board meeting \)](#)
- “Turn off the device when not in use and at the end of each day. If device is to stay on, turn Wi-Fi off when not in use. Always place device on a solid surface. Viewing distance should be a minimum of 12 inches from the screen. Staff was asked by the Principals to post this in areas that contain computers and devices. They are reminding staff to follow it.”

## 2015 - Ashland Public Schools, Massachusetts Institutes “Best Practices”

- Ashland was the first [US School District](#) to institute "Best Practices" to turn the Wi-Fi off when not in use and keep devices away from the body
- [Download powerpoint slides](#) used for teacher/staff training.
- [Video of parent who initiated this](#), [Video of school board member](#) discussing the process.
- [Magazine article on Ashland’s Decision Here](#), [Newspaper Coverage](#)
- [TV Program of parent advocate CeCe Doucette and Keith Marciniak discussing the policy changes.](#)

## Los Angeles, California Public Schools Recommends Cautionary Exposure Levels

- The LA School District Uses a RF-EMF Exposure Threshold 10,000 Less Than the FCC Limits: [RADIOFREQUENCY \(RF\) EVALUATION REPORT Use of Wireless Devices in Educational Settings](#) [Read the LA Schools Office of Environmental Health and Safety Factsheet About Radiofrequency](#)
- [2009 adopted resolution](#) - LA School board wrote a resolution banning cell towers from schools and recommending against WiFi.
- [2009 Resolution Condemning Cell towers NEAR Schools as was this T-Mobile Cell Tower across the street from an elementary school.](#)  
[Motion by Supervisors Zev Yaroslavsky and Michael Antonovich](#)
- [2000 LA School Board Resolution Opposing Cell Tower Placement on Schools](#) -- Calls for precautions with wireless. 'Whereas, Recent studies suggest there is evidence that radio-frequency radiation may produce “health effects” at “very low field” intensities'

**Safety Issues Related to the LAUSD RFR Thresholds :** Los Angeles School District states they use precautionary RFR guidelines- however even a threshold at 10,000 times lower than FCC limits is not safe because peer reviewed published scientific research has shown harm at levels *hundreds of thousands times* lower than FCC limits. The school district is in fact increasing wireless exposures with Wi-Fi access points and increasing exposure to students and staff. LAUSD is not ensuring safety with these actions. In addition the LAUSD measures the radiation in the building by averaging the power density which masks areas of high intensity and peak exposures. From a human health standpoint, the RFR measurements need to include peak readings in addition to the cumulative length of time children are exposed to RF radiation in order to fully understand their exposure. Until these measures are taken, one cannot adequately evaluate the EMF environment.

Environmental Health Trust <http://ehtrust.org/>

*Note on Safety: Digital Device “Best Practices”* that still allow Wi-Fi access points in classrooms- *still allow* microwave exposures to the children and such practices are not adequately protective to children. These District actions seem to be *acknowledgment that wireless device expose the body to radiation*. However, such “Best Practices” still allow access points to be powered on and thus are always exposing the students and staff to continuous microwave radiation regardless of the devices being in use or not. In addition, devices are also continuously transmitting during student use of the internet and no procedure is in place to ensure that Best Practices are followed so that the transmissions are turned off when the internet is not needed. Therefore these “Best Practices” *do not* mitigate the risk nor do they protect students from School District created wireless exposures.

## US HEALTH ADVICE TO THE PUBLIC

### **2017 - California Department of Public Health publishes advice on cell phone radiation after withholding the information for almost a decade.**

- December 14, 2017: The California Department of Public Health (CDPH) just [issued](#) long-awaited recommendations to reduce microwave radiation exposures from [cell phones](#), especially for children. Spurred by a lawsuit and research suggesting that “long-term, high use may impact human health,” the CDPH [press release](#) includes guidance on why and how to reduce cell phone radiation. The CDPH drafted more than [27 versions](#) of this advice since 2008, but December 13, 2017 was the first time CDPH published it online. The CDPH original [2008 guidance](#) referred to the University of Pittsburgh Cancer Institute [2007 Cell Phone Advice](#) and also included recommendations for [state employees to reduce exposures](#) to microwave radiation from cell phones as well as home and office cordless phones. The newly released guidance focuses only on cell phones cautioning that “children may be more at risk” because they will be exposed to cell phone radiation for a “lifetime” and with radiation exposures deeper into their brain.
- “Children’s brains develop through the teenage years and may be more affected by cell phone use,” said CDPH Director and State Public Health Officer Dr. Karen Smith. The new three-page [CDPH guidance](#) includes practical steps to reduce exposure to cell phone radiation, including keeping the phone away from the body, reducing cell phone use when the signal is weak, reducing the use of cell phones to stream videos and not sleeping with your cell phone. The guidance also states:
- “Laboratory experiments and human health studies have suggested the possibility that long-term, high use of cell phones may be linked to certain types of cancer and other health effects, including: brain cancer and tumors of the acoustic nerve and salivary glands, lowered sperm quality and inactive or less mobile sperm, headaches and effects on learning and memory, hearing, behavior and sleep.”

Documents From the December 2017 Publishing of the Advice By The Department of Health

[Press Release December 14, 2017: California Department of Health Issues Guidelines on How to Reduce Exposure to Radiofrequency Energy from Cell Phones](#)

[State of California. "How to Reduce Exposure to Radiofrequency Energy from Cell Phones." Division of Environmental and Occupational Disease Control, California Department of Public Health. December 2017.](#)

[Year after lawsuit, California health officials release cell phone radiation safety guide, KCRA](#)

### **December 2017 News Reports After Official Release**

- [CBS National news featured the California Guidelines on Cell Phone Radiation and featured Dr. Joel Moskowitz and Dr. Stan Glantz.](#)
- [CBS News: California Releases Cell Phone Radiation Advice To Reduce Exposure](#)
- [Daily Mail: Stop sleeping with your cell phone: Anything closer than arm’s length could cause cancer and infertility, health officials warn](#)
- [Keep Your Cell Phone Away From Your Body, New State Guidelines Warn, Capital Public Radio,](#)

Environmental Health Trust <http://ehtrust.org/>



- [California Department of Public Health warns cell phone use can impact health, especially in children, ABC News](#)
- [Have a cell phone against your ear? You should consider putting it down, Fresno Bee,](#)
- [CNET California issues guidance on cell phones and health: A state agency doesn't take a firm stance on whether cell phones are dangerous, but it offers recommendations on reducing risks.](#)
- [New Zealand Herald: Stop sleeping with your cell phone, health officials warn](#)
- [Forbes: California Warns About Cell Phone Exposure And Health Risks](#)
- [Perez Hilton.com: It's Dangerous To Sleep With Your Cell Phone?!](#)

[Read EHT analysis of the published draft December 15, 2017](#)

**Documents From the March 2017 Release of the California Public Health Documents After The Court Order Before the Department officially released them**

[Guidelines were first drafted starting in 2008](#) . Please [read the 27 Versions of the cell phone radiation safety fact sheet](#) prepared by the California Department of Public Health (CDPH) initially revised multiple times through January, 2015 released by the California Attorney General's Office to Joel M. Moskowitz, Ph.D. of the School of Public Health University of California, Berkeley. Dr. Moskowitz sued the CDPH for the release of these guidelines. Dr. Moskowitz states that California State never adopted this fact sheet nor released it to the public due to what Dr. Moskowitz refers to as suppression by "political appointees".

- The California document recommends people keep the phone away from the brain and body especially for children stating, "EMFs can pass deeper into a child's brain than an adult's. Also, the brain is still developing through the teen years, which may make children and teens more sensitive to EMF exposures."
- [2 page PDF of the final draft from the Moskowitz lawsuit, California Department of Health Cell Phone and Health 2017 Released Document](#)
- [27 Versions of the cell phone radiation safety fact sheet as drafted and edited since 2008](#)
- [SUPERIOR COURT OF CALIFORNIA COUNTY OF SACRAMENTO RULING on Petition](#)
- [Dr. Moskowitz webpage detailing the release and court case.](#)
- [Read Press Release California Department Of Health Releases Cell Phone Warning Same As Issued A Decade Ago](#)
- San Francisco Chronicle News Article - [Long-overdue release of information about cell phone risks](#)
- San Francisco Examiner News Article - ["California Health Officials release report on cell phone radiation"](#)
- NBC Bay Area News Article - ["Cell Phone Cancer Debate Heats up With Document Release"](#)
- San Francisco Chronicle News Article - ["New records show how state reworked secret cell phone warning" May 19, 2017](#)
- [All Guidelines \(2009 -2015\) and Full Details of CDPH Cell Phone Document](#)

**2017: Monterey County California Resolution Proclaiming Electromagnetic Sensitivities Awareness Month.** [Monterey County BOS September Electrosensitivity Month Resolution, 9-19-17 signed](#)

**2016 - American Academy of Pediatrics Issues Recommendations to Reduce Exposure**

- [Healthy Children Webpage on Cell Phones](#)
- The webpage reiterated children's unique vulnerability to cell phone radiation stating, *"Another problem is that the cell phone radiation test used by the FCC is based on the devices' possible effect on large adults—not children. Children's skulls are thinner and can absorb more radiation."*
- The AAP issued the following cell phone safety tips specifically to reduce exposure to wireless radiation:
  - Use text messaging when possible, and use cell phones in speaker mode or with the use of hands-free kits.
  - When talking on the cell phone, try holding it an inch or more away from your head.
  - Make only short or essential calls on cell phones.
  - Avoid carrying your phone against the body like in a pocket, sock, or bra. Cell phone manufacturers can't guarantee that the amount of radiation you're absorbing will be at a safe level.
  - Do not talk on the phone or text while driving. This increases the risk of automobile crashes.



- Exercise caution when using a phone or texting while walking or performing other activities. “Distracted walking” injuries are also on the rise.
- If you plan to watch a movie on your device, download it first, then switch to airplane mode while you watch in order to avoid unnecessary radiation exposure.
- Keep an eye on your signal strength (i.e. how many bars you have). The weaker your cell signal, the harder your phone has to work and the more radiation it gives off. It's better to wait until you have a stronger signal before using your device.
- Avoid making calls in cars, elevators, trains, and buses. The cell phone works harder to get a signal through metal, so the power level increases.
- Remember that cell phones are not toys or teething items.
- [Press Release: The AAP responds to study showing link between cell phone radiation, tumors in rats May 27, 2016](#)

#### **2015 - AAP Healthy Child Web Page on Electromagnetic Fields: A Hazard to Your Health?**

- This webpage states: “Cell Phones: In recent years, concern has increased about exposure to radio frequency electromagnetic radiation emitted from cell phones and phone station antennae. An Egyptian study confirmed concerns that living nearby mobile phone base stations increased the risk for developing: *Headaches, Memory problems, Dizziness, Depression, Sleep problems.*”
- “Short-term exposure to these fields in experimental studies have not always shown negative effects, but this does not rule out cumulative damage from these fields, so larger studies over longer periods are needed to help understand who is at risk. In large studies, an association has been observed between symptoms and exposure to these fields in the everyday environment.”

#### **2013- AAP Letter to FCC Commissioner Mignon Clyburn and FDA Commissioner Margaret Hamburg calling for a review of RF guidelines (8/29/2013)**

*“The AAP urges the FCC to adopt radiation standards that: Protect children’s health and well-being. Children are not little adults and are disproportionately impacted by all environmental exposures, including cell phone radiation. Current FCC standards do not account for the unique vulnerability and use patterns specific to pregnant women and children. It is essential that any new standard for cell phones or other wireless devices be based on protecting the youngest and most vulnerable populations to ensure they are safeguarded throughout their lifetimes.”*

#### **2012 AAP Letter to FCC calling for the FCC to open Review of Human Exposure Guidelines.**

[American Academy of Pediatrics Letter to the FCC Chairman calling for the FCC to open up a review of RF guidelines \(7/12/2012\)](#)

#### **2012 AAP Letter to US Representative Dennis Kucinich in Support of the Cell Phone Right to Know Act**

- [Original Letter](#)
- [Time Magazine News Article - “Pediatricians Say Cell Phone Radiation Standards Need Another Look”](#)

#### **2012 - AAP published Pediatric Environmental Health, Textbook of Children's Environmental Health**

- [Chapter 41: Electromagnetic Fields](#)
- [Oxford Medicine Chapter 41](#)

#### **2011 AAP News Article - [More study needed on risk of brain tumors from cell phone use](#)**

#### **2014 - The California Medical Association Passed a Wireless Resolution**

- [Full CMA Resolution](#)
- “Whereas scientists are increasingly identifying EMF from wireless devices as a new form of environmental pollution ... Whereas peer reviewed research has demonstrated adverse biological effects of wireless EMF including single and double stranded DNA breaks, creation of reactive oxygen species, immune dysfunction, cognitive processing effects, stress protein synthesis in the brain, altered brain development, sleep and memory disturbances, ADHD, abnormal behavior, sperm dysfunction, and brain tumors; and...Resolved, That CMA support efforts to implement new safety

exposure limits for wireless devices to levels that do not cause human or environmental harm based on scientific research.”

- [Santa Clara Medical Bulletin article that explains the CMA resolution and gives recommendations for schools.](#)

**2014 - The Connecticut Department of Public Health issued specific recommendations to reduce exposure to cellphone radiation.**

- [Connecticut Department of Public Health Cell Phone Q and A about Cell phones](#)
- It is notable that the Department has provided information more in depth than the CDC, EPA and FDA in detailing 7 steps on *how* people can reduce exposure. Furthermore, the Department states *“It is wise to reduce your exposure to radiofrequency energy from cell phones whenever possible.”*

**2014 - Greenbelt, Maryland City Council voted unanimously for the following policy actions:**

- [Original Greenbelt City Council letter to the FCC](#)
- Alert citizens about the fine print warnings and possible health risks of cell phones and wireless devices By sharing the Environmental Health Trusts 10 Steps to Safe Tech and Doctors Advice on Cell Phones Brochure in City health fairs and city centers.
- Send the FCC Chairman a letter urging the adoption of “radiation standards that will protect human health and safety.”
- Oppose cell towers on school grounds and write a letter to the local school board and County Executive.
- Press Release - [“Maryland City Votes Unanimously to Alert Citizens to the Health Risks of Cell Phone/Wireless Radiation and to Oppose Cell Towers on School Grounds”](#)

**2011 - San Francisco, California; Cell Phone Radiation (How to Reduce Exposures) Webpages launched**

- Webpage - [“Cellphones”](#)
- San Francisco developed the following public health information resources:
  - Answers on [How to reduce exposures](#) to cell phone radiation.
  - A [Poster](#) on Cell Phones and RF Radiation
  - A [Factsheet](#) for the Public
  - [Display stickers](#) for Cell Phone packaging.

**2012 and 2010 - Jackson Hole, Wyoming issued a Proclamation of Cell Phone Awareness**

The proclamation cites concern over long term health effects as well as the increased risk that the radiation poses to children.

- [2012 and 2010 Signed Proclamation](#)
- [Watch a video of the](#)  
[Mhttps://ehtrust.org/wp-content/uploads/Jackson-Hole-Proclamation-on-Cell-Phone-Safety-.pdf](https://ehtrust.org/wp-content/uploads/Jackson-Hole-Proclamation-on-Cell-Phone-Safety-.pdf) favor reading the [Proclamation and declaring October Cell Phone Radiation Awareness Month](#)

**2012 - Pembroke Pines, Florida passed Resolution**

- [Resolution 3362](#)
- Resolution expresses the City's "Urgent Concerns" about Wireless Radiation and Health and which encourages citizens to read their manuals and presents information on how to reduce exposure by using a headset or speakerphone. Jimmy Gonzalez, an attorney who had developed brain cancer after heavy cell use, initially petitioned the Commission.
- [Video of Jimmy Gonzalez’s powerful testimony](#)
- [Read full details of Pembroke Pines Resolution](#)

**2011- California: Burlingame California City Council** voted to include cell phone safety [guidelines](#) in their Healthy Living in Burlingame initiative which gives recommendations on how to reduce exposure and states:

“The Federal Communications Commission (FCC) mandates that all cell phone manuals caution users to hold the phone a short distance (.6 inch to 1 inch) from the body. (See your manuel's fine print.)

While scientists continue to research and debate this matter, here are some simple things you can do to minimize your exposure to cell phone emissions” Read the [Original Guidelines](#)

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- [Environmental Working Group Press Release Bay Area City Presses Cell Radiation Right-to-Know](#)
- [S.F. cell phone law rings in Burlingame, San Francisco Gate News](#)

**2011 - Maine, Portland Mayor Mavodenes, Jr. declared October “Cell Phone Awareness Month”**

- [Original Proclamation of Maine: Cell Phone Radiation Awareness Month October 2011](#)

**2010 Philadelphia, Pennsylvania**

- On December 2, 2010, the Philadelphia City Council passed a resolution ([PDF](#)) that authorized the Committee on Public Health and Human Services "to hold hearings on the potential health risks from cell phone radiation and the actions the city of Philadelphia can take to better educate all cell phone users, particularly children and teens, on ways to reduce radiation exposure by using headsets, speaker phones, and texting."

[CNET Article: Cities and states consider cell phone radiation laws, 2011](#)

**2009 - Governor of Colorado issued a Proclamation on Electrical Hypersensitivity.**

- [Original Proclamation](#)
- *"Electromagnetic Sensitivity is a painful chronic illness of hypersensitive reactions to electromagnetic radiations.*
- *WHEREAS, the symptoms of EMS include, dermal changes, acute numbness and tingling, dermatitis, flashing, headaches, arrhythmia, muscular weakness, tinnitus, malaise, gastric problems, nausea, visual disturbances, severe neurological, respiratory, speech problems, and numerous other physiological symptoms.*
- *WHEREAS, Electromagnetic Sensitivity is recognized by the Americans with Disabilities Act, the US Access Board and numerous commissions;"*

**2009 - Governor of Connecticut issued a Proclamation on Electrical Hypersensitivity.**

- [Original Proclamation](#)
- *"WHEREAS, the health of the general population is at risk from electromagnetic exposures that can lead to illness indicted by electromagnetic radiations; and, WHEREAS, this illness may be preventable through the reduction or avoidance of electromagnetic radiations, in both outdoor and indoor environments and by conducting further scientific research..."*

**2009 - Broward County, Florida; The Mayor issued a Proclamation on Electrical Hypersensitivity.**

- [Original Proclamation](#)
- *"WHEREAS, as a result of global electromagnetic pollution, people of all ages in Broward County and throughout the world have developed an illness known as Electromagnetic Sensitivity..."*

## US Proposed Legislation

**2012 [The Cell Phone Right to Know Act H.R. 6358](#)**

- The Act was introduced receiving strong support from many organizations including the American Academy of Pediatrics. This legislation called for labels on mobile devices at point of sale, a comprehensive national research program to study whether exposure to wireless devices causes adverse biological effects directed by NIEHS and the EPA and exposure level regulation.
- Congressional hearings in 2009 provided expert testimony to Congress.
- [CSPAN VIDEO.](#)
- **Library of Congress Summary:** Written by the Congressional Research Service
- Cell Phone Right to Know Act - Requires the Director of the National Institute of Environmental Health Sciences and the Administrator of the Environmental Protection Agency (EPA) to:
  1. conduct or support a comprehensive research program to determine whether exposure to electromagnetic fields from mobile communication devices causes adverse biological effects in humans, including vulnerable subpopulations such

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as children, pregnant women, those with compromised immune systems and hypersensitivity reactions, men and women of reproductive age, and the elderly;

2. disseminate research results to the general public; and
3. report findings and conclusions to Congress.

Directives:

- Directs the Federal Communications Commission (FCC) to promulgate regulations to allow a subscriber to access personally or to give consent to allow researchers with institutional review board approval to access specific usage data required to investigate the link between electromagnetic radiation exposure and potential adverse biological effects in humans.
- Directs the EPA to promulgate regulations establishing maximum exposure level goals and maximum exposure levels for exposure to electromagnetic fields generated by mobile communication devices.
- Directs the Commissioner of Food and Drugs (FDA) to promulgate regulations to provide for labeling (including exposure ratings and the maximum allowable exposure levels and goals) on mobile communication devices, packaging, instruction manuals, and at points of sale in stores and on websites.
- Requires the Secretary of Health and Human Services (HHS) to increase: (1) the number and size of grants to institutions for training scientists in the field of examining the relationship between electromagnetic fields and human health; and (2) the number of career development awards for such training for health professionals pursuing careers in pediatric basic and clinical research, including pediatric pharmacological research.
- Amends the Public Health Service Act to establish a graduate educational loan repayment program and authorize national awards for researchers in such fields.
- Amends the Communications Act of 1934 with respect to the prohibition on state or local government zoning regulation of personal wireless service facilities on the basis of the environmental effects of radiofrequency emissions.
- Excludes from such prohibition state or local regulation based on the adverse human health effects of emissions of radiofrequency electromagnetic fields.

## Oregon

- 2017 Legislation about to be introduced.
- [2015 Oregon HB 3350](#): This proposed legislation directs the Department of Education to prepare statement that discloses potential health risks of wireless technology and requires public and private schools to distribute statement to employees and parents of students. It declares an emergency effective July 1, 2015.
- [2015 Oregon HB 3351](#): This proposed legislation states that cell phones must have a visible written label that advises consumers of possible risks and steps that consumers can take to reduce the risk of radiofrequency radiation exposure from cellular telephone use. Read it here.

## Massachusetts

### [Watch Video of 2015 Briefing to Massachusetts Legislators](#)

- 2017/2018: Three Massachusetts Senators and one Representative introduced bills to examine wireless radiation and protect the public. [Click here for details.](#)
  - [S.1268](#) Resolve creating a special commission to examine the health impacts of electromagnetic fields (Senator Karen E. Spilka).
  - [S.1864](#) An Act relative to utilities, smart meters, and ratepayers' rights (gives people the no-fee choice of keeping their non-radiation-emitting water, gas and electrical meters instead of "smart" utility meters; Senator Michael O. Moore).
  - [S.107](#) An Act relative to disclosure of radiofrequency notifications (requires warning labels on radiation-emitting products; Senator Julian Cyr).
  - [S.108](#) An Act relative to the safe use of hand-held devices by children (requires specific language on packaging as modeled by an [ordinance](#) unanimously passed in Berkeley, California; Senator Julian Cyr).
  - [H.2030](#) An Act relative to best management practices for wireless in schools and public institutions of higher education (asks the Massachusetts Department of Elementary and Secondary Education to set wi-fi standards for all schools; Representative Carolyn Dykema).
- 2016 Proposed Bill MA [1222 An Act creating a special commission to study the health impacts of electromagnetic fields](#)

- 2015 [Bill H2007](#): An Act relative to a special commission to study electric and magnetic fields. *Bills Still in Process as of August, 2015.* [Watch a view of the statehouse briefing on RF here.](#)

#### 2015 - Nassau County Proposed a Wireless Router Labeling Act

- The act would place visible warning signs in all county buildings and facilities where a wireless router is located.
- [Media coverage of the initiative](#)

#### 2014 - [The Maine LD 1013 "The Wireless Information Act"](#)

- The act passed the State Senate and House but then failed to pass the second vote. The Bill requires manufacturer's information on radio-frequency exposure be visible on the outside of the cell phone's product packaging.
- [Please a video of State Representative Andrea Boland on how the legislation was thwarted.](#)
- News Article - [Cell Phone Radiation Label Bill Passes Maine Legislature Before Dying](#)
- [Maine's 2015 "Cellular Telephone Labeling Act"](#)

#### 2011 - [San Francisco Cell Phone Right to Know Ordinance](#)

- Ordinance requires cell phone retailers to distribute an educational sheet created by the San Francisco Department of Environment that explains radiofrequency emissions from cell phones and how consumers can minimize their exposure. The CTIA sued the city and settled with the City to block implementation of the Ordinance in exchange for a waiver of attorney's fees.
- The City [Cell Phone Radiation Webpage.](#)

#### 2014 - [Hawaii Senate Bill SB 2571](#)

- Senate bill was introduced calling for a warning label encouraging consumers to follow the enclosed product safety guidelines to reduce exposure to radiation that may be hazardous to their health.

#### [2011 - California Legislation SB 932](#)

- This 2011 legislation would have required retailers to include notices on product packaging that cell phones emit radio frequency (RF) energy. A second notice would be posted at the point of sale when purchasing online or in a physical store.

#### [2011 - New Mexico Proposed Law HM 32](#)

- This 2011 proposed law request the Department of Health and the Department of Environment to study and review all available literature and reports on the effects of cell phone radiation on human health.

#### [2011 - Pennsylvania Proposed Law HB 1408](#)

- This 2011 proposed law would require warning labels on cell phones “to inform all citizens about possible health dangers that have been linked to microwave radiation that is emitted by cellular telephones and the steps that can be taken to mitigate those dangers, especially as they relate to children and pregnant women.”
- Dr. Ronald B. Herberman, former director of the University of Pittsburgh Cancer Institute (UPCI) and the UPMC Cancer Center offered testimony at a PA House Democratic Policy Committee hearing.
- [CBS Local coverage of hearing](#)
- [Philadelphia Tribune News coverage](#)

#### [2011- Oregon Proposed Law SB 679 Oregon](#)

- This 2011 proposed law would require warning labels for all new cell phones and cell phone packaging.
- [News video about the law](#)

#### [1999 - Proposed Law H.R. 2835](#)

- In 1999 Congressman Bernie Sanders sponsored H.R. 2835 (106th): To require an assessment of research on effects of radio frequency emissions on human health.

## Schools Worldwide Removing the WiFi and Reducing Exposure

2017: [The Santa Fe Waldorf in New Mexico](#): Wi-Fi removed in elementary school classrooms.

2017: Worcester Massachusetts, School Committee voted to approve “precautionary options” to be posted on the Worcester District Website. [Read Press Release.](#)

2017: San Diego California USA Waldorf School: Adopted CHPS guidelines wired internet/electronic free zones/and hardwired phones per article published in [Renewal Magazine.](#)

2017: Sacramento California USA Waldorf School: WiFi will be turned off when not in use starting in Fall 2017.

2017: Wi-fi OFF Switches Installed in the Fiskars primary school. [Read press release.](#)

2017: Cyprus Bans Wi-Fi from kindergartens, removes Wi-Fi from elementary classrooms and halts deployment.

[Original Translated Directive from the Cyprus Minister of Culture and Education](#) ; [Read Press release on Cyprus Wi-Fi removal from elementary classrooms](#)

2016: Haifa, Israel: Haifa Mayor Yona Yahav (of Israel’s 3rd largest city) ordered all schools to have wireless removed and replaced with wired connections. [Watch Haifa School IT Chief describe how they removed/reduced wireless.](#)

- [Read Krayot news article](#): Haifa Cuts off Wi-Fi in Schools
- [Hamodia article](#): Haifa to Shut School Wireless Networks
- [Reshet TV Report](#)
- [News Report Israel CH2 Documentary - "How do we kill our self - Radiation" with unofficial English translation](#)
- [News Report “Parents Fight Wireless Radiation in Schools” on Supreme Court Case in Israel](#)

2016 Lowell School, Washington DC

- In the kindergarten wing in 2016, the Wi-Fi hotspots were removed and the teachers are given ethernet and adapters so that computers and class technology can be ethernet connected (corded) to reduce RF-EMF exposure.

2016 Italy: Turin Mayor Chiara Appendino laid out plans “to cut back on Wi-Fi in state schools and government buildings over concerns that radiation might damage people's health”.

- News Report [Turin could slash Wi-Fi over 'radiation' concerns](#)

2016: Onteora School District in New York State USA

- [April 20, 2016 Meeting Minutes Page 2.](#)
- District adopts “Best Practices with Wi-Fi stating:
- “Turn off the device when not in use and at the end of each day. If device is to stay on, turn Wi-Fi off when not in use. Always place device on a solid surface. Viewing distance should be a minimum of 12 inches from the screen. Staff was asked by the Principals to post this in areas that contain computers and devices. They are reminding staff to follow it.”

2016 Italy: [Mayor of Borgofranco d'Ivrea \(Italy\) orders Wi-Fi to be turned off in schools.](#)

- “Mayor Livio Tola told the town's high school and elementary school to return to using cables to connect to the internet after reading that the electromagnetic waves given off by wireless routers were especially harmful to young children.”
- The Local Newspaper article - [“Italian town shuts down wifi over health fears”](#)
- Torino News Article - [“Ivrea. The Mayor Removes WiFi as it Could Be Dangerous”.](#)

2016: [Rotokawa School New Zealand, implemented steps to minimize RF Exposure](#)

- Children use ipads in flight mode on desk and parents may request that their child use an Ethernet cord. Children are taught about the health precautions as part of their cyber citizenship.

**Denmark Schools that have removed or reduced wireless exposure**

Bjedstrup elementary School og Børnehus, (school and kindergarten) Student must hand over cell phones before classes + no wifi in school premises

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[Hammer Free Private School](#) - all internet connections are hard wired  
Vejlernes private school - no wifi  
Kastanjely kindergarten - no wifi

**2016: [Istituto Comprensivo Alighieri- Diaz in Lecce Italy Banned Wifi](#)**

- [Official resolutions number 1](#) and [Resolution 2](#)
- Their two resolutions decided: a) to ban wifi in school and install a wired system for the use of internet and b) Reject the request of the local government (Municipality) to install an antenna on the school roof for the wireless signal providing for the "Wireless city" program. The resolution also asks the Municipality to install the antenna at a reasonable distance from school.

**2016: The Piemonte Region has adopted a resolution to limit EMF exposure**

- [Original Resolution](#)
- Resolution limits the use of wifi in schools and is considerate to the problem of EHS people.

**2015: Ashland Public Schools, Mass (USA)**

Ashland is the first school district to vote to enact "Best Practices" in classrooms and publicly post these instructions which include turning off Wi-Fi when not in use and keeping devices in a table, not a lap

News article on these ["Best Practices" to turn the WiFi off when not in use.](#)

- [Download teacher training PPT slides](#). [Video of parent who initiated this](#)
- [Video of school board member](#) discussing the process
- [Magazine article on Ashland's Decision](#)

2016: [Shearwater The Mullumbimby Steiner School](#), Australia, 100% Wi-Fi Free School

2016: [Yallingup Steiner School](#) Australia , WiFi Free Classrooms

2016: Linuwel School , Australia ,WiFi in some classrooms, Can accommodate children with EHS.

2016: Cairns Hinterland Steiner School , Australia, WiFi Free Classrooms (may be available in other areas)

2016: Wild Cherry School, Australia , 100% Wi-Fi Free

2015: St. Cajetan School, Belgium: Wired Internet installed and wireless removed.

2015: Washington Waldorf School, Maryland, USA: Removed Wi-Fi Routers from Buildings, Ethernet installed. [WAMU News Report on Removal of Wi-Fi](#)

2015: Freshwater Creek School, Australia, 100% Wi-Fi Free

2015: London, Acorn School: Screen Free. [Read News article](#)

2015: Lorien Novalis School, Australia, 100% Wi-Fi Free School Preschool to 12th grade.

2015: Cairns Hinterland School, Australia, WiFi Free Classrooms for EHS

2014: Acorn Hill School, Maryland: Reducing exposure to Wi-Fi. In process.

2014: Friends Community School: Wi-Fi turned off in wing for lower elementary school students. WiFi routers moved OUT of classrooms into hallways for older grades to reduce EMF exposure. Ethernet wires made available in classrooms for families who want children on corded (not wireless) computers. Unknown if this is still in place.

2014: [DearCroft Montessori](#): Hardwired internet to younger grades, limited Wi-Fi Router exposure to older grades.

2014: [Portland Waldorf School](#), Portland Oregon,USA, WiFi removed from elementary school

2014: [Meeting House Montessori](#), Braintree Massachusetts, USA, WiFi replaced with ethernet.

2014: Ghent, Belgium, [Wi-fi banned from pre-schools and day care](#).

2014: [UPPER Sturt Primary School](#), Australia. [Read article](#). [Read "No WIFI" LOW EMF School Policy](#).

2014: The [St. Augustine School](#) in Italy turned off Wifi and goes back to Wires.

2013 [Winlaw Elementary School](#), B.C. Canada turned off WiFi.

2013 [Te Horo Primary School](#) New Zealand Replaced WIFI with cable-based internet.

2013 [Kootenay Lakes District](#) School Board BC (One school without Wi-Fi)

2013 [Blaise-Cendrars High School](#), Switzerland. Teachers vote to remove WiFi.

2012 [Kivioja primary school](#) in Ylivieska Finland bans phones and minimizes Wireless.

2012: [Halton Waldorf](#) in Burlington Vermont: Remaining free of Wireless Radiation

2011 [City of Lakes Waldorf School](#), WiFi taken out. Minneapolis, Minnesota USA

2011 Aurora School in Ontario removed Wifi and replaced with hardwired.

Environmental Health Trust <http://ehtrust.org/>

2011 [North Cariboo Christian School](#) in Quesnel, B.C., removed Wi-fi .  
2011 [Pretty River Academy](#) in Ontario no WiFi.  
2011 Wayside Academy, Peterborough, Ontario no Wi Fi.  
2010 Surrey, [BC Roots and Wings Montessori](#) removed Wi-Fi.  
2010 Ontario St. Vincent Euphrasia elementary school: Parents voted to turn off Wi-Fi.  
2009 HEROUVILLE-SAINT-CLAIR wi-fi networks removed.

### **School Cell Phone Bans**

This list covers bans of cell phones that occurred after the schools found cell phones in classrooms to be distracting and problematic. It is not necessarily because of the radiofrequency and health issues. This is not a complete list but rather a list as stories make the news starting in 2017. Hyperlinks go to news source

**France:** Cell Phones totally banned in schools for students up to 14 years old. The ban includes hallways, playgrounds and in between classes. [Read more about French policy here](#) and read the 2017 news article in Le Monde [“No More Phones in Schools and Colleges” here](#). The policy will be in place by September 2018.

**Israel:** Cell Phones were BANNED in Israel School Classrooms in 2016. [Read more here.](#)

**Victoria Middle School, Canada,** [May 2017 Cellphone ban at Victoria middle school pushes the wrong buttons](#)

### **USA**

**Mansfield City Schools, Ohio, USA, July 2017** News article [“Ohio school district bans student cell phone use.”](#)

- The first of the two new policies bans use of cell phones or other personal communication devices not only in the classroom but also before and after school, at lunch and in between classes. Unless approved by a teacher or administrator, the devices must be “powered completely off” and stored out of sight.

**Portage High in Wisconsin USA:** Read the 2017 news article: [Portage High bans cellphones | Principal: Policy will be a challenge for everyone](#) and [Cellphone ban at Portage High School showing positive impact](#)

**Highland Middle School, Illinois USA** [Middle schools ban smartphones so students build social smarts](#)

**Collinsville IL Middle School, Illinois USA:** Read [“Metro-east middle school bans students from using cellphones”](#)

**Paris Maine Schools** News article: [Local school implements new cell phone ban](#)

**Framington Massachusetts,** [USA Framingham Middle Schools Ban Cell Phones For 2017-18 School Year](#)

**Lakeview High School in Battle Creek Michigan.** Read the 2016 News article, [Michigan high school bans cell phones in class](#)

**Lewiston Middle School Maine USA,** [Read Lewiston Middle School bans student cell phone use](#) and also [Lewiston Middle School Principal answers your questions about cell phone ban.](#)

**Corona Del Mar Middle School in Newport-Mesa Unified School District California USA** 2017 News article, [“At Corona del Mar Middle School, kids can’t use cellphones at lunch. The result? They talk.”](#) **Old Rochester Regional High School:** [Massachusetts high school bans cell phones from classrooms](#)

The above US bans are not related to cell phone radiation issues but instead- the way that cell phones disrupt educations.

## **Teacher Unions and Parent Teacher Organizations**

**2018: United Educators of San Francisco** passes Resolution on Safer Technology

The Union represents more than 6,000 employees of the San Francisco Unified School District including teachers, nurses, paraeducators, counselors, instructional aides, substitutes, psychologists, therapists, social workers and speech pathologists throughout San Francisco.

The resolution, expected to be on the Labor-Management Health and Safety Committee agenda for review and planning of next steps, calls for:

- A discussion of the CDPH cell phone guidelines

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- The development of best practices for mobile devices to reduce RF in San Francisco schools
- Publishing the CDPH cell phone guidelines through various outlets for all San Francisco educators and parents
- Posting RF safety guidelines in every classroom

**[United Educators of San Francisco Resolution on Enhancing Technology Safety in San Francisco Unified School District](#)**

**2017: Hillsmere Elementary School PTA** Writes Letter To Anne Arundel County Opposing a Small Cell Near The School and cites the EMF Scientists. [Read the letter.](#)

**2016: New Jersey Education Association (NJEA)** published the article [“Minimize health risks from electronic devices”](#) in the September 2016 NJEA Review. Adrienne Markowitz and Eileen Senn detail how to reduce physical health risks from devices including risks from radiation exposure:

- *“Keep devices away from the body and bedroom.*
- *Carry phones in briefcases, etc., not on the body.*
- *Put devices on desks, not laps.*
- *Hard wire all devices that connect to the internet.*
- *Hard wire all fixed devices such as printers, projectors and boards.*
- *Use hard-wired phones instead of cell or cordless phones.*
- *Text rather than call.*
- *Keep conversations short or talk in person.*
- *Put devices in airplane mode, which suspends EMF transmission by the device, thereby disabling Bluetooth, GPS, phone calls, and WiFi.*
- *Use speaker phone or ear buds instead of holding the phone next your head.*
- *Take off Bluetooth devices when not using them.”*
- Read the online NJEA article [“Minimize health risks from electronic devices”](#)
- [PDF of NJEA article Recommendations](#)

**2016: Phoenicia Elementary School Oteora School District, New York State**

The PTA wrote a letter to the Oteora School District calling for the Wi-Fi to be turned off as a precautionary action

- [Watch a video of the School Board Meetings where letter is read here](#)
- [Watch videos of parents and students calling for Wi-Fi removal here.](#)
- Read News Report: [Some Oteora parents fear Wi-Fi signals in schools are harming their children.](#)

**2016: Ontario Secondary School Teachers Federation**

The Federation has issued a new call for a moratorium on WIFI and in the Limestone School District and they have taken the issue to the school trustees in that District. “The Teacher Union’s president says there is a growing mountain of evidence that WIFI can pose health risks.” Andrea Loken/OSSTF District President stated in a 3/2016 news interview that, “There are thousands of published peer reviewed papers that are indicating adverse health effects from WIFI and we are seeing an increased awareness around this issue worldwide.”

- [Read the Ontario Limestone District Report sent to Board on Wi-Fi.](#)
- Watch [the video of the news piece with Union members here.](#)
- [Read the National Post article here](#)
- [Radio Canada International article here.](#)

**2016: Elementary Teachers Federation of Ontario**

A 3/2016 News Report states that they are calling for a “WIFI moratorium until further health studies are done, and lawmakers can catch up with new regulations.”

- Watch [the video of the news piece with Union members here](#)
- [Read the National Post article here](#)
- [Radio Canada International article here.](#)

**2014 United Federation of Teachers (Teachers, nurses and professionals working in New York City).**

In 2014 their [Wireless Radiation Webpage](#) stated:

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“Wireless radiation is emitted by the myriad of wireless devices we encounter every day. It was once thought to be relatively harmless. However, we now know that wireless radiation can cause non-thermal biological effects as well, including damage to cells and DNA, even at low levels.

[Reducing Your Exposure to Wireless Radiation](#)

Some tips to reduce your exposure to wireless radiation.

[What You Need to Know About Wireless Radiation and Your Baby](#)

Taking certain precautions around wireless radiation is appropriate for our most vulnerable populations, including pregnant women.

Curiously in March of 2016, this statement was removed and replaced with [new text mimicking FCC verbiage](#). However the site *still posts* how to reduce exposure.

- Resources posted on their site still include Dr. Moskowitz’ [Reducing Your Exposure to Wireless Radiation](#) and the BabySafe Project brochure [What You Need to Know About Wireless Radiation and Your Baby](#). “Taking certain precautions around wireless radiation is appropriate for our most vulnerable populations, including pregnant women.”

**2014 New York State Teachers Union NYSUT:** A federation of more than 1,200 local unions.

*"We have enough evidence to justify taking action and we are not willing to wait until our members, their children and the students suffer health consequences from not doing anything,"* -Paul Pecorale, Vice President of the New York State United Teachers Union.

- [Read the Press Release on Best Practices For Schools prepared for NYSUT](#)
- Download the [Guidelines for Safer Use of Wireless Technology in Classrooms](#) Published for NYSUT
- NYSUT hosted a [Webinar: Risks of wireless technologies and protecting children and staff in schools](#).

**2014 National Education Association**

- [Section C-19 of the NEA 2013-2014 Resolutions](#)
- “The National Education Association believes that all educational facilities must have healthy indoor air quality, be smoke-free, be safe from environmental and chemical hazards, *and be safe from hazardous electromagnetic fields.*”
- “Students and/or their parents/guardians, education employees, and the public should be notified of actual *and potential hazards.*”
- “School districts should conduct periodic testing for harmful water *and airborne particles/agents* that are detrimental to the health of students and education employees and shall report the results publicly.”
- “The Association also believes in the development and enforcement of health and safety standards specifically for children.”

**2013 Canadian Teacher Federation’s Brief (200,000 elementary and secondary school teachers)**

- “CTF is concerned about the lack of definitive research regarding the adverse health effects of Wi-Fi.
- “We propose a prudent approach to the use of Wi-Fi, especially where children are present.”
- “We recommend an education program regarding the relative safety of Wi-Fi exposure and that appropriate resources be developed to educate the public regarding ways to avoid potential exposure risks of Wi-Fi access points and devices.”
- “Pedagogical needs could be met in schools with an approach that limits exposure to Wi-Fi.”
- Read the Briefing [The Use of Wi-Fi in Schools - Briefing Document](#)
- 2015: Canadian Teacher's Magazine published [CTF Sounds the Alarm on Wi-Fi](#)

**2013 United Teachers of Los Angeles, representing 40,000 teachers and staff**

- Resolution passed: “I move that UTLA will abide by current National NEA Policy for Environmentally Safe Schools which states that all employees and stakeholders should be informed when there are changes in their exposure to environmental hazards including electromagnetic radiation and that all stakeholders and the public should be notified of any actual and potential hazards. UTLA will advocate for technological solutions that maintain technology upgrades while not increasing employees exposure to electromagnetic radiation.”
- Health and Human Services Committee 3-6-13 #1: Moved by Kevin Mottus, seconded by John Cabrera.
- UTLA Newsletter [editorial by social worker Kevin Mottus](#).

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**2013 [Elementary Teacher's Federation of Ontario](#)** Issued a position statement "There is cause for concern for members' health and safety, especially women," said Sandra Wash, a teacher representing the Peel district when the Federation issued [a 2014 position statement](#) supporting an Expert Panel recommendation that Health Canada provide the public with more information about radiofrequency energy, and the safe use of wireless technology.

[ETFO voted](#) to:

- Turn cell phones off in classrooms
- Label the location Of Wi-Fi access points.
- Research Radio Frequency radiation.
- Develop a hazard control program related to wireless microwave radiation through JHSC.

**2012 [The Ontario English Catholic Teachers Association \(45,000 Ontario teachers\)](#)**

- [Read the Ontario English Catholic Teachers Association Position Statement here.](#)
- The Teacher Association recommends a wired infrastructure as WIFI "may present a potential Health and Safety risk or hazard in the workplace...The safety of this technology has not thoroughly been researched and therefore the precautionary principle and prudent avoidance of exposure should be practiced."
- "Controls for WiFi would best be guided by the ALARA principle (As Low As Reasonably Achievable), as well as by applying the concept of prudent avoidance (of non-ionizing radiation)."
- [Read CBC News article](#)

**2013 [BC Teachers Federation adopted Wireless Resolutions and Proposed Resolutions](#)**

- [Wireless Resolutions and Proposed Resolutions](#)
- "The BCTF supports members who are suffering from Electromagnetic Hypersensitivity by ensuring their medical needs are accommodated in the workplace."
- Proposed Resolutions "the World Health Organization's classification of radiofrequency/electromagnetic fields emitted by wireless devices as a 2B possible cancer risk to humans; that the BCTF ensures all teachers have the right to work in a safe environment, including the right to work in a Wi-Fi/ wireless-free environment."
- Recommendation to the Ministry of Education that school boards "begin immediate installation of on/off switches for Wi-Fi routers in schools, thereby reducing microwave radiation exposure and reducing health risks to members, and/or provide safer Ethernet cables or fibre optics".
- Daily News Coverage: [Merritt teachers demand protection from wi-fi radiation 'Evidence is piling up that wi-fi radiation may in fact be harmful'](#)
- [Vancouver Sun News Report](#)
- [Debate about Wi-Fi in B.C. schools heats up, VANCOUVER SUN 05.08.2013](#)

**2013 [The BC Confederation of Parent Advisory Councils \(BCCPAC\) of 821 Advisory Councils representing over 500,000 parents in British Columbia passed two resolutions.](#)**

- Resolution: [On/Off switches for WiFi Routers and Protocol for the Use of Wireless Devices](#)
- Resolution 17 "calls on each Board of Education to have one public school at each education level that is free of Wi-Fi, cordless phones and cell phones. This school will only be equipped with wired computers and wired telephones for personal, educational and administrative purposes."
- Resolution 18 calls on Boards of Education to "cease to install Wi-Fi and other wireless networks in schools where other networking technology is feasible." passed with a clear majority.

**2010 [UK VOICE ;The Union for Education Professionals-](#) 20,000 members**

- Read the [Position Statement](#)
- "Voice has advocated that new Wi-Fi systems should not be installed in schools, that existing systems should be turned off when not required and that schools should consider whether they really need to use Wi-Fi, which was developed to facilitate Internet access on the move rather than to be used as a convenient alternative to cables in dedicated IT facilities."
- " In the light of what has happened to one of our members [*who has developed sensitivity to electro-magnetic radiation*], I am concerned that so many wireless networks are being installed in school and colleges without any real understanding of the possible long-term consequences."- Voice General Secretary Philip Parkin

Environmental Health Trust <http://ehtrust.org/>



- Voice [Blog post](#).

## Los Angeles California Public Schools LAUSD

**The LA School District Uses a RF-EMF Exposure Threshold 10,000 Less Than the FCC Limits:** The OEHS supported a precautionary threshold level that is 10,000 times lower than the current Federal Communications Commission standard. Read the RF Report the LA School District Used to recommend a cautionary exposure level.

- [RADIOFREQUENCY \(RF\) EVALUATION REPORT Use of Wireless Devices in Educational Settings](#)
- [Read the LA Schools Office of Environmental Health and Safety Factsheet About Radiofrequency](#)

**The LA School District Prohibits Cell Towers on School grounds-** as stated in their [Standards And Conditions Documents](#) 2009 LA School Board Resolution Banning Cell Towers from schools and recommending against WiFi.

- "The Board supports responsible deployment of fiberoptic broadband technology which is superior to wireless in speed, reliability, security, durability and protections it affords people and the environment from the potential hazards of exposure to radio frequency radiation."
- [Adopted Resolution](#)
- [Press Release: LOS ANGELES BOARD OF EDUCATION MEMBERS VOTE TO PROHIBIT CELL PHONE TOWERS NEAR SCHOOLS](#)
- 2009 December Resolution *Condemning Cell towers NEAR Schools* as was this T-Mobile Cell Tower across the street from an elementary school.
- [Original Resolution](#)  
*"As long as questions exist as to the adequacy of these federal regulations, local governments should have the ability to include consideration of health and environmental effects of these facilities."* (referring to cell towers)
- [Read the motion by Supervisors Zev Yaroslavsky and Michael Antonovich](#)

## 2000 LA School Board Resolution Opposing Cell Tower Placement on Schools

- [Original Resolution](#)
- Resolution calls for precautions with wireless. 'Whereas, Recent studies suggest there is evidence that radio-frequency radiation may produce "health effects" at "very low field" intensities'

**Safety Issues Related to the LAUSD RFR Thresholds :** Los Angeles School District states they use precautionary RFR guidelines- however even a threshold at 10,000 times lower than FCC limits is not safe because peer reviewed published scientific research has shown harm at levels *hundreds of thousands times* lower than FCC limits. The school district is in fact increasing wireless exposures with Wi-Fi access points and increasing exposure to students and staff. LAUSD is not ensuring safety with these actions. In addition the LAUSD measures the radiation in the building by averaging the power density which masks areas of high intensity and peak exposures. From a human health standpoint, the RFR measurements need to include peak readings in addition to the cumulative length of time children are exposed to RF radiation in order to fully understand their exposure. Until these measures are taken, one cannot adequately evaluate the EMF environment.

**Note on Safety: Digital Device "Best Practices"** that still allow Wi-Fi access points in classrooms- *still allow* microwave exposures to the children and such practices are not adequately protective to children. These District actions seem to be *acknowledgment that wireless device expose the body to radiation*. However, such "Best Practices" still allow access points to be powered on and thus are always exposing the students and staff to continuous microwave radiation regardless of the devices being in use or not. In addition, devices are also continuously transmitting during student use of the internet and no procedure is in place to ensure that Best Practices are followed so that the transmissions are turned off when the internet is not needed. Therefore these "Best Practices" *do not* mitigate the risk nor do they protect students from School District created wireless exposures.

## 2010 Greater Victoria Teachers' Association

"The GVTA recommends a precautionary approach to the School District with regard to provision of wireless internet in schools. The precautionary approach comes from the environmental movement and has been adopted as common practice in areas regarding potential environmental, ecological or biodiversity damage. It suggests that the lack of significant evidence is not enough of a reason to be unconcerned. The fact that many other countries have instituted regulations to protect children, Environmental Health Trust <http://ehtrust.org/>



seniors, pregnant women and other susceptible populations should be the guide for a District policy on WiFi installation and use in the worksites."

The [GVTA Wireless in Schools Webpage](#) states now that:

- Wi-Fi free zones should be available.
- On/Off routers recommended and record any adverse Wi-Fi health effects.
- Minimal or non-use within elementary schools.

**2008** Lucerne Elementary Secondary Arrow Lakes District SD 10 New Denver BC, Canada Opts for “No WIFI

**2001 Fletcher Hills PTA Resolution submitted to the California State PTA**

- “RESOLVED, that the California PTA supports local municipal zoning setback rules of at 1000 feet or more from an operating wireless transmitter and a school or residential area; and be it further
- RESOLVED that the California PTA supports encouraging schools to use cable lines for all communications services on campus and to avoid the endorsement, purchase or use of wireless local area network systems on campus; and be it further
- RESOLVED that the California PTA recommend that teachers and students should limit use of cellular phones or other mobile devices on school property to emergencies and that cellular phones, pagers and other mobile phones be turned off and placed out of sight while the individual is on school property”
- Resolution on Wireless Equipment/Cellular Phones and Antennas [Read it here.](#)

**DOCTORS AND SCIENTISTS APPEAL FOR STRICTER WIRELESS TECHNOLOGY REGULATION**

<p><a href="#">Vienna Resolution</a> 1998</p> <p><a href="#">Salzburg Resolution</a> 2000</p> <p><a href="#">Stewart Report, UK</a> 2000</p> <p><a href="#">Declaration of Alcalá</a> 2002</p> <p><a href="#">Catania Resolution</a> 2002</p> <p><a href="#">Freiburger Appeal</a> 2002</p> <p><a href="#">Bamberger Appeal</a> 2004</p> <p><a href="#">Maintaler Appeal</a> 2004</p> <p><a href="#">International Association of Fire Fighters Resolution on Cell Towers</a> 2004</p> <p><a href="#">Coburger Appeal</a> 2005</p> <p><a href="#">Oberammergauer Appeal</a> 2005</p> <p><a href="#">Haibacher Appeal</a> 2005</p> <p><a href="#">Pfarrkirchener Appeal</a> 2005</p> <p><a href="#">Freienbacher Appeal</a> 2005</p> <p><a href="#">Lichtenfelser Appeal</a> 2005</p> <p><a href="#">Hofer Appeal</a> 2005</p> <p><a href="#">Helsinki Appeal</a> 2005</p> <p><a href="#">Parish Kirchner Appeal</a> 2005</p> <p><a href="#">Saarlander Appeal</a> 2005</p>	<p><a href="#">Stockacher Appeal</a> 2005</p> <p><a href="#">Vancouver School Resolution</a> 2005</p> <p><a href="#">Benevento Resolution</a> 2006</p> <p><a href="#">Allgäuer Appeal</a> 2006</p> <p><a href="#">WiMax Appeal</a> 2006</p> <p><a href="#">Schlüchterner appeal</a></p> <p><a href="#">Brussels Appeal</a> 2007</p> <p><a href="#">Venice Resolution</a> 2008</p> <p><a href="#">French Doctor Appeal</a> 2008</p> <p><a href="#">Porto Alegre Resolution</a> 2009</p> <p><a href="#">European Parliament EMF Resolution</a> 2009</p> <p><a href="#">Dutch Appeal</a> 2009</p> <p><a href="#">Int’l Appeal of Würzburg</a> 2010</p> <p><a href="#">Copenhagen Resolution</a> 2010</p> <p><a href="#">Seletun Consensus Statement</a> 2010</p> <p><a href="#">Russian National Committee on Non-Ionizing Radiation Protection</a> 2011</p> <p><a href="#">Potenza Picena Resolution</a> 2011</p> <p><a href="#">World Health Organization</a> 2011</p> <p><a href="#">Austrian Medical Association</a> 2012</p> <p><a href="#">Resolution on Electromagnetic Health</a> 2012</p>	<p><a href="#">British Doctor Initiative</a> 2013</p> <p><a href="#">BabySafe Project: Joint Statement on Pregnancy and Wireless Radiation</a> 2014</p> <p><a href="#">Canadian Doctors Declaration to Health Canada</a> 2014</p> <p><a href="#">Scientific Declaration to Health Canada (International Doctors)</a> 2014</p> <p><a href="#">Brussels International Scientific Declaration on Electromagnetic Hypersensitivity and Multiple Chemical Sensitivity</a> 2015</p> <p><a href="#">International Scientists Appeal to U.N. to Protect Humans and Wildlife from Electromagnetic Fields and Wireless Technology</a> 2015 Over 200 Scientists</p> <p><a href="#">Reykjavik Iceland Appeal on Wireless in School</a>, 2017</p> <p><a href="#">Scientist 5G Appeal to the EU</a> 2017</p> <p><a href="#">Madrid Declaration</a> 2017</p> <p><a href="#">Nicosia Declaration</a> 2017</p> <p><a href="#">The International Society of Doctors for Environment 5G Appeal</a> 2018</p>
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**Firefighter Unions Opposing Cell Towers**

Environmental Health Trust <http://ehtrust.org/>

## INTERNATIONAL ASSOCIATION OF FIRE FIGHTERS

- *"The IAFF opposes the use of fire stations as base stations for towers and/or antennas for the conduction of cell phone transmissions until a study with the highest scientific merit and integrity on health effects of exposure to low-intensity RF/MW radiation is conducted and it is proven that such sitings are not hazardous to the health of our members."*
- The IAFF Official Position *Against* Cell Towers on Fire stations passed in 2004  
<http://www.iaff.org/HS/Resi/CellTowerFinal.htm>
- This Position was initiated after increasing complaints among firefighters with cellular antennas on their stations coupled with the California study showing neurological damage in California firefighters conducted by Dr. Gunnar Heuser. The pilot study (2004) of California firefighters showed brain abnormalities, cognitive impairment, delayed reaction time, and lack of impulse control in all 6 firefighters tested ([Read Susan Fosters filed Affidavit to the FCC, Read the Press Release on the Resolution and Research Study here](#)). This study led to the overwhelming passage of Resolution 15 by the International Association of Firefighters in Boston in August 2004. Res. 15 called for further study and was amended to impose a moratorium on the placement of cell towers on fire stations throughout the US and Canada.

## L.A. County Firefighters Local 1014

- Local 1014 has a webpage dedicated to stopping towers because of a plan to install them on over 200 of their stations.  
<http://www.stopcellphonetowers.com/index.html>
- "As firefighters and paramedics, we live in these firehouses. What effect will these towers have on us? What are the risks to our neighbors? It's a no-brainer that LA County should at least have done a proper study before putting 200-foot high-power microwave antennas on top of our heads."

*- Dave Gillotte, Active Duty Fire Captain  
President, LA County Firefighters Local 1014  
[Watch him testify on this issue here.](#)*

- *The Firefighter's Website in 2015* <http://www.stopcellphonetowers.com/index.html>

## United Firefighters of Los Angeles City Local 112 IAFF-CIO-CLC Opposes Cell Towers on Their Stations.

- "It is inexcusable that once again our firefighters in the field were the last to know about a massive 150 million dollar project that could jeopardize their health and safety. ... nobody talked to us and we have not heard from one single expert who has told us that this project will be safe."
- "UFLAC will strongly oppose the use of Fire Stations as base locations for cell towers and/or antennas"
- Download the letter from this [LA Firefighters Union Local 112 asking for an immediate halt to cell towers](#) on fire stations.
- [Watch videos the these Firefighter Union Presidents testifying to the LA Board of Supervisors on the Issue here.](#)

See list of Medical Doctor Consensus Statements at this link

<http://ehtrust.org/science/medical-doctors-consensus-statements-recommendations-cell-phoneswireless/>

## Examples of Other Government Advice or Information That Does Not have Precautionary Policy