Reykjavik appellen om trådlös teknik i skolan

Vi som undertecknar denna appell är oroade för våra barns hälsa och utveckling i skolor med trådlös teknik i undervisningen. En stor mängd vetenskapliga studier har visat på betydande medicinska risker med långtidsexponering för radiofrekvent strålning från trådlös teknisk utrustning långt under rekommenderade gränsvärden från International Commission on Non-Ionizing Radiation Protection (ICNIRP). Vi ber att berörda skolmyndigheter tar sitt ansvar för våra barns framtida hälsa och välmående.

I maj 2011 klassificerade WHO's vetenskapliga råd för cancerforskning (IARC, the International Agency for Research on Cancer) radiofrekvent strålning som 'möjligen cancerframkallande' enligt grupp 2B. Sedan dess har fler vetenskapliga studier stärkt sambandet mellan radiofrekvent strålning och cancer, speciellt för hjärntumörer. Ett antal laboratoriestudier har visat på olika mekanismer i cancerutveckling, såsom oxidativ cell stress, påverkan på mRNA och skador på DNA i cellerna. IARC klassificeringen innefattar alla källor för radiofrekvent strålning. Exponeringen från basstationer, WiFi nätverk, smartphones, bärbara datorer och läsplattor är ofta långvarig, ofta dygnet runt både i skolan och i hemmet. Risken för barn kan även vara ökad på grund av en kumulativ effekt under en hel livstid. Omogna och växande celler kan vara mer känsliga för radiofrekvent strålning. Baserat på befintliga vetenskapliga studier finns idag ingen säker lägsta gräns för påverkan från den radiofrekventa strålningen och därför finns inte heller någon garanti för en säker lägsta nivå för strålningen.

Förutom cancerrisken kan radiofrekvent strålning även bidra till att blodhjärnbarriären öppnas och släpper in stora skadliga molekyler till hjärnan, skada nervceller i hippocampus som är hjärnans minnescentrum, påverka regleringen av nödvändiga proteiner i hjärnans ämnesomsättning, signalsubstanser, stressförsvar, och skydd av nervceller. Spermier som har exponerats för Wi-Fi har fått fler huvuddefekter och DNA-skador. Radiofrekvent strålning kan öka den oxidativa stressen i cellerna och leda till en ökning av inflammatoriska cytokiner och en lägre kapacitet att laga enkel- och dubbelsträngbrott på DNA.

Kognitiv påverkan på inlärning och minne har också påvisats. OECD's PISA undersökning bland 15-åringar visar att resultaten i läsning och matematik sjönk i länder som investerat mest i införandet av datorer i undervisningen. Multitasking, att göra flera saker samtidigt, allt för många timmar framför en skärm, mindre tid för sociala kontakter och fysisk aktivitet med risk för värk i nacke och rygg, övervikt, sömnproblem och IT-missbruk är några av de kända risker som framkommit för IT (informationsteknologi). De står i motsats till de ofta hävdade men i stort sett obevisade fördelarna med IT.

Vi ber att skolmyndigheter i alla länder sätter sig in i den kunskap som finns angående möjliga risker med radiofrekvent strålning för våra barn som växer och utvecklas. Att använda kabelbundna datorer i undervisningen är en säkrare lösning än potentiellt riskfylld exponering för trådlös radiofrekvent strålning. ALARA (As Low As Reasonably Achievable; så lågt som är möjligt) principen bör följas liksom Europarådets resolution 1815 för att försöka reducera exponeringen från radiofrekvent strålning så mycket som möjligt.

Praktiska regler för skolor angående barn och trådlös teknik.

- Inga trådlösa nätverk i förskola och skola.
- Kabelbunden uppkoppling till varje klassrum för läraren att använda under lektionerna.
- Föredra fasta telefoner med kabel till all personal i förskola och skola.
- Föredra kabelbunden uppkoppling till internet och till skrivare samt stäng av WiFi på all utrustning.
- Föredra datorer och läsplattor som går att ansluta till internet med kabel.
- Elever bör inte få använda mobiltelefoner i skolan. De bör antingen lämna dem hemma eller att läraren samlar in dem helt avstängda före första lektionen på morgonen.

Children, Screen time and Wireless Radiation – International Conference
Barn, Skärmtid och Trådlös Radiofrekvent Strålning - Internationell Konferens
Reykjavik 24 februari 2017

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Referenser

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