From: Eileen O’Connor, Director EM Radiation Research Trust Charity

For the attention of:
UK Health Security Agency North West
Cc. Brian Stein CBE Chairman EM Radiation Research Trust
Wes Steeting MP Secretary of State for Health and Social Care
Cllr. Richard Kemp CBE Mayor of Liverpool
Cllr. June Burns Mayor of Sefton
Kim Johnson MP
Cllr. Jane Corbett
Michelle Beard Headteacher Millstead Primary School
Paul O’Brien, Chair of Governors Millstead Primary School

For the attention of the UK Health Security Agency North West and Public Officials

The EM Radiation Research Trust are saddened to hear about the deaths of two young children in the same school who died unexpectedly with no clear cause. We offer our sincere condolences to the families, friends, and teachers at Millstead Primary School.

News headline - Two schoolchildren, aged 5 and 6, from same Liverpool special needs primary school die after outbreak in classes of giardiasis infection. The UK Health Security Agency says deaths ‘unlikely’ to be linked to outbreak. Two schoolchildren, aged 5 and 6, from same Liverpool special needs primary school die after outbreak in classes of giardiasis infection | Daily Mail Online

The EM Radiation Research Trust call for an investigation into the 4G-LTE phone mast right next to the school. We recently invited RF-EMF Radiation measurement’s expert Glynn Hughes to do preliminary measurements outside the school. Please view the video to see his results. https://www.youtube.com/watch?v=eP8vnY5e6Z0

This phone mast is placed in a location right next to Millstead Primary School, Everton Lliad St, Liverpool L5 3LU a special needs school for children and next to a block of apartments. Glynn Hughes from EMF Protection recorded the highest peak reading he has ever taken in the UK at 1,554932 µW/m using the FM5 meter. The postcode area for the
school provides details for a number of telecom operators that are currently using 2G, 3G, 4G, 5G and 5G ultra. Mobile signal coverage here: [https://www.signalchecker.co.uk/](https://www.signalchecker.co.uk/)

The peak radiation levels of 1,554932 µW/m were recorded outside Millstead Primary School which correspond with readings recorded by [Professor Lennart Hardell and Mona Nilsson of the Swedish Radiation Protection Foundation](https://www.safetyfrom5g.com) who previously published seven case reports that include a total of 16 persons aged between 4 and 83 years that developed microwave syndrome within a short time after being exposed to 5G base stations close to their dwellings. Case studies provide details regarding health issues that were assessed for each person. Most prevalent and severe were sleeping difficulties (insomnia, waking night time, early wake-up), headache, fatigue, irritability, concentration problems, loss of immediate memory, emotional distress, depression tendency, anxiety/panic, dysesthesia (unusual touched based sensations), burning and lancinating skin, cardiovascular symptoms (transitory high or irregular pulse), dyspnea, and pain in muscles and joints. They reinforce the urgency to inhibit the deployment of 5G until more safety studies have been performed. [https://pubmed.ncbi.nlm.nih.gov/38889394/](https://pubmed.ncbi.nlm.nih.gov/38889394/)

The EM Radiation Research Trust invited Mona Nilsson Director for the Swedish Radiation Protection Foundation to provide a comment about the levels of radiation recorded outside Millstead Primary School. She said: “The levels of microwave RF radiation at this school are extremely high and known to cause illness. Children should be protected from harmful radiation not involuntary exposed because of powerful industry’s greed. I recommend a full investigation into the health of all children attending this school and also teachers. Many might be suffering from typical symptoms such as headache, sleeping problems, fatigue from these extreme levels of 5G radiation”.

We understand that the school also experienced an outbreak of Giardia, however the UKHSA are ruling this out as the cause of death for the two children. A study from 2019 demonstrated an increase in the growth of Giardia when exposed to low frequency electromagnetic fields. We note there are substations near the school along with the phone masts and therefore creating a combination of frequencies. This requires further investigation and attention: [PDF] Trichomonas vaginalis and Giardia lamblia Growth Alterations by Low-Frequency Electromagnetic Fields (researchgate.net)

Families in Merseyside are currently being exposed to unsafe levels of pulsed electromagnetic radiation because of the masts, antennae and general radiofrequency radiation which is being escalated with Liverpool and Sefton Council’s introduction and addition of 5G and the Internet of Things. Here is a collection of recent phone mast radiation readings taken in Liverpool and Sefton: [https://www.radiationresearch.org/wp-content/uploads/2024/07/Phone-mast-readings-July-2024-002.pdf](https://www.radiationresearch.org/wp-content/uploads/2024/07/Phone-mast-readings-July-2024-002.pdf)

Here is a chart containing a list of published studies highlighting ill health effects such as fatigue, depression, sleep problems, cardio vascular reports, behavioural problems, headaches, irritation etc at levels below the ICNIRP guidelines and well below the levels recorded around Millstead Primary School and other masts in Liverpool and Sefton. [Final RF Charts power density Rev Sep14.xlsx](https://bioinitiative.org)

**Liverpool has created the largest 5mmWave network in the UK and the second largest in the world, and deployed significant levels of IoT in people’s homes according to the Liverpool 5G health and social care testbed website:** [https://liverpool5g.org.uk/health-social-care-testbed/](https://liverpool5g.org.uk/health-social-care-testbed/)
Are the people of Liverpool aware they are taking part in this experiment?

An article published by the School of Computer Science and Mathematics; Liverpool John Moore’s University is featured on the Liverpool 5G website and is demonstrating research that is currently being carried out in the Kensington area of Liverpool. Details of the Liverpool 5G project here: Modelling and Analysis of Performance Characteristics in a 60 Ghz 802.11ad Wireless Mesh Backhaul Network for an Urban 5G Deployment. Researchers state: “The aim of this deployment is to support a range of social and healthcare applications for the community, from simple health sensor and monitoring services through to VoIP, full HD or 4 K streaming for remote consultations and (potentially) low latency VR tools." 60Ghz also allows very high data rate communication in applications such as video conferencing, media streaming, and gaming. I would like to highlight Point number 3. Communication in the 60 Ghz Band The use of the 60 GHz frequency for wireless communication goes back to 2001 when the US regulator (FCC) adopted rules for unlicensed operations in the 57 to 64 GHz band for commercial and public use. Modelling and Analysis of Performance Characteristics in a 60 Ghz 802.11ad Wireless Mesh Backhaul Network for an Urban 5G Deployment (ljmu.ac.uk)

Is Liverpool and Sefton Council and the researchers of this article published by John Moore’s University aware that the Federal Communications Commission (FCC) received a court order requiring the FCC to consider thousands of scientific studies to justify its outdated wireless radiation exposure guidelines – that have not been updated in over 28 years? The ICNIRP UK guidelines along with the US guidelines are outdated and obsolete and are obviously not protecting public health. On Friday 13th August 2021 in the USA Robert F. Kennedy Jr’s Children’s Health Defense and the Environmental Health Trust successfully sued the FCC for ignoring 11,000 pages of scientific and medical evidence showing biological effects, so we can no longer rely on industry or government assurances of safety. The documents are available to download here: Environmental Health Trust et al. v. FCC Key Documents - Environmental Health Trust (ehtrust.org)

American Presidential candidate Robert F. Kennedy Jr supported the EM Radiation Research Trust in May 2020 in a letter calling on Boris Johnson and political leaders to protect the public from the proven harms of wireless radiation and 5G. Here is a direct quote from RFK Jr in support of our charity - “Robert F. Kennedy, Jr Chairman of CHD, and Dafna Tachover, Director of CHD’s 5G & Wireless Harms project support the UK EM Radiation Research Trust in their call on the UK Government to defend the rights and health of UK citizens and especially children from Big Telecom’s scheme to rollout 5G. The harms of radiofrequencies and microwave-based technologies have been proven scientifically and the harms are existing and widespread. We work daily with children who have been injured from this technology including from 5G small cell installations. The UK’s ICNIRP based guidelines, just like the US’s FCC, are decades obsolete and false. ICNIRP is an industry shell, and its scientists are tainted as has been confirmed by Courts. Robert F. Kennedy, Jr calls on Prime Minister Boris Johnson and political leaders to protect those who have been harmed already by this radiation and prevent further harm. We must stop the uncontrolled proliferation of wireless technology and the on-going deployment of 5G, which will exponentially increase exposure to this harmful radiation and consequently, the sickness of children, adults, and the ecosystem. Details here: https://www.radiationresearch.org/news/rfk-jr-joins-em-radiation-research-trust-in-calling-upon-uk-prime-minister-to-halt-5g-deployment-%e2%80%a2-childrens-health-defense/
The Liverpool John Moore's paper highlights the following fact: **wired solutions are typically an expensive solution but offer unlimited bandwidth and ease of maintenance. On the other hand, wireless solutions have the advantage of rapid and easy deployment at relatively low cost.** The EM Radiation supports wired solutions rather than lower cost, slow and unreliable hazardous wireless antennas. The financial costs must not come before the health and safety of the population.

**Phone masts emit radiation 24/7 and there is no escape.** In 2011 the WHO and IARC recognised as a class 2B carcinogen. The same classification as DDT and lead in Petrol. IARC classifies Radiofrequency Electromagnetic Fields as possibly carcinogenic to humans [who.int](https://www.who.int).

Evidence has since increased following the US $30 million NTP study and the Italian Ramazzini institute ten-year research project that both found clear evidence of malignant tumours.

Here is an important information taken directly from a major telecommunications provider Swisscom patent document:

*These findings indicate that the genotoxic effect of electromagnetic radiation is elicited via a non-thermal pathway. Moreover aneuploidy is to be considered as a known phenomenon in the increase of cancer risk. Thus it has been possible to show that mobile radio radiation can cause damage to genetic material, in particular in human white blood cells, whereby both the DNA itself is damaged and the number of chromosomes changed. This mutation can consequently lead to increased cancer risk. In particular, it could also be shown that this destruction is not dependent upon temperature increases, i.e. is non-thermal.* [https://www.radiationresearch.org/research/swisscom-patent/](https://www.radiationresearch.org/research/swisscom-patent/)

The law needs to be taken into account with regards to important UK legal developments in connection with Electrosensitivity. The case, EMAvEast Sussex County Council (Special educational needs) features a child who suffers with electrosensitivity. The Upper Tribunal Judge Jacobs found that the child should be considered disabled under the Equality Act 2010, and required an Education, Health, and Care Plan (EHCP).

In June 2022, a 59 year old UK social worker won early ill health retirement for disabling Electromagnetic Hypersensitivity (EHS) [https://phiremedical.org/news/](https://phiremedical.org/news/)

Advice from the UK May 2000 Stewart Report – People can vary in their susceptibility to environmental hazards. It is not possible at present to say that exposure to RF radiation, even at the levels below national guidelines, is totally without potential adverse health effects, and that the gaps in knowledge are sufficient to justify a precautionary approach. Base stations sited within or near school grounds, should not have a beam of greatest intensity that falls on any part of the school grounds or buildings without agreement from the school and parents. In 2004 Sir William Stewart stated that he believed that the evidence for possible harm had become stronger in the (almost) 5 years since the publication of his original IEGMP Report. He recommended that young people should be encouraged to minimise their use of mobile phones, and that children under 10 years old should not have one.

presentation, he made it very clear that: “the ICNIRP guidelines are neither mandatory prescriptions for safety, the “last word” on the issue nor are they defensive walls for Industry or others.” This statement makes it clear that the decision to adopt these guidelines into national legislation as “sufficient to protect public health” is political. The government’s misuse of ICNIRP is the primary issue. Slide number 16: https://www.radiationresearch.org/wp-content/uploads/2018/06/021145_vecchia.pdf

It’s worth noting that the $21 billion reinsurance company Swiss Re Group, which is one of the world’s leading reinsurance providers, rated 5G as a “high impact” liability risk, citing concerns about its biological effects, and potential claims for health impairments. https://ehtrust.org/wp-content/uploads/Swiss-Re-SONAR-Publication-2019-excerpt-1.pdf

Two Freedom of Information Questions for Liverpool and Sefton Council:

1) Can Liverpool and Sefton Council send the exact clause in their public liability insurance that shows that the Council is indemnified against claims on the Council for harm caused by emf radiation?

If claims were to be brought against the Council, in relation to harm from EMF/RF radiation associated with phone masts and wireless technology for DNA damage who would pay up the claim in these difficult financial times for councils?

2) Does Liverpool and Sefton Council obtain full ICNIRP drawings and site-specific radio frequency plans for masts including upgrades to masts to include exclusion Zones?

The council are allowing masts on public land and highways and are again therefore responsible for these decisions.

Landowners warned to be aware of phone mast radiation risk article published 26 January 2020 in the Farmers Weekly

‘Landowners with telecommunications masts on their property should request information on radiation exclusion zones before the network is upgraded to carry 5G signals. The warning came from Central Association of Agricultural Valuers (CAAV) secretary and adviser Jeremy Moody. Mr Moody said that significant levels of exposure to the radio waves emitted by base stations on telecoms masts can affect people’s health. The risks mean each mast must have an exclusion zone to protect people.’ Full article here: https://www.fwi.co.uk/business/compliance/landowners-warned-to-be-aware-of-phone-mast-radiation-risk?

We call on public officials to listen to recommendations and advice from independent scientists for the prevention, diagnosis and treatment of EMF related health problems and illness. EUROPAEM EMF Guideline 2016 for the prevention, diagnosis and treatment of EMF-related health problems and illnesses (degruyter.com)

The EM Radiation Research Trust calls for a full investigation into the deaths of the two young children at Millstead Primary School. We are concerned because there have been zero health tests on 5G before the rollout in Liverpool and because two children from the same school have died.
We call on the Government and local authorities to prove to us this technology is safe. Thousands of peer reviewed studies show biological harm from 2G, 3G, and 4G at levels BELOW the allowable guidelines, so tell us why this more powerful 5G is being allowed to roll out without objection. **Who is responsible for this profound oversight?**

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