



**By email**

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Our ref: 12/10/fb/703

8 November 2019

Dear Ms Gomez

**Re: Where in UK will be 5G free and safe for those who are EMF sensitive**

Thank you for your email dated 12 October 2019. Your request for information has been handled under the Environmental Information Regulations (EIR).

Your request:

- 1) *Please show exactly where in the guidelines you see evidence in the form of actual tests performed for safety levels at continuous exposure on the biology of a cell on the DNA of a human being and on a child.*
- 2) *Please show me the tests in your guidelines that you are referring to that have been done on a child-size dummy or for an average size human being dummy.*

The attached PHE RF Advice Summary Document describes the most recent evidence sources that form the basis for PHE advice. The documents mentioned contain tables of contents, lists of references and their body text can be searched electronically according to keywords.

In determining exposure restrictions, the guideline-setting committees draw on evidence from various types of studies, for instance experimental studies on animals and cells, human volunteer studies and epidemiological studies. In addition, dosimetric studies are considered, involving computational models of the human body, to investigate how radio frequency energy is absorbed in the various tissues of the body and what temperature rises result from that energy absorption. These studies are described in the various guideline and expert review documents accessible in links in the RF Advice Summary document.

An informative commentary is also available in chapter 2 of the following review document:

[https://webarchive.nationalarchives.gov.uk/20140722213201/http://www.hpa.org.uk/webc/HPAwebFile/HPAweb\\_C/1194947383619](https://webarchive.nationalarchives.gov.uk/20140722213201/http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1194947383619)

In assessing radiofrequency exposure in relation to the guideline limits, the exposures are averaged over fairly short time intervals, of the order of a few minutes, aimed to prevent excessive heating of the body. For exposure over long time periods the guidelines committees look to the evidence from epidemiological studies, where possible health effects have been investigated for exposures over periods of up to several years, e.g. as with the studies of mobile phone users – the studies considered are accessible in the links provided in the RF Advice Summary.

If you have any queries regarding the information that has been supplied to you, please refer your query to in writing in the first instance. If you remain dissatisfied and would like to request an internal review, then please contact us at the address above or by emailing [foi@phe.gov.uk](mailto:foi@phe.gov.uk).

Please note that you have the right to an independent review by the Information Commissioner's Office if a complaint cannot be resolved through the PHE complaints procedure. The Information Commissioner's Office can be contacted by writing to Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF.

Yours sincerely,

FOI Team