

## Radiation Safety of Radio Base Stations – English Version

|   | <b>Super</b> | <b>Subtitles</b>  |
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| 1 |              | Come and have a look at the latest All Weather Anti-Radiation Outfit.<br>No more worry about radiation from any transmitting stations (radio base stations) after wearing one.<br>Bro, any interest?  |
| 2 |              | How come there is so much radiation?  |
| 3 |              | There is something you may not know, bro.<br>Hong Kong will soon enter the 5G era.<br>By that time many radio base stations will be installed in various places.<br>Radiation will hover over you days and nights.<br>How will your health not be affected?<br>Beauty, wanna buy one? |
| 4 |              | Give me two in small size.  |
| 5 |              | Two in small size, no problem!  |
| 6 |              | Son, it sounds really scary.<br>Perhaps each of us should also buy one.   |
| 7 |              | Mum, don't believe this kind of hearsay.  |

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|    |  | It is not backed by any scientific evidence. Come on! We have to join dad for a meal...  |
| 8  |  | That's useless!  |
| 9  |  | Dad, why do you dress like this?   |
| 10 |  | I'm wearing the All Round Radiation-Shielding Armor Suit which is sold at the street corner at HK\$500 only.<br>It provides complete protection from all kinds of radiation...   |
| 11 |  | What?<br>Haven't you heard that with greater capability comes greater responsibility?<br>To safeguard the health of my family, I have decided to buy two more suits for you.<br>It's really not easy to be a father... |
| 12 |  | Honey...   |
| 13 |  | Darling  |
| 14 |  | Enough!<br>What you said is totally without scientific evidence.<br>In fact, do you have any idea about the functions of radio base stations?  |
| 15 |  | Let me tell you more!  |
| 16 |  | 5G network is the new generation of mobile communications network.<br>Its speed is 10 to 20 times faster than that of 4G.<br>Apart from allowing us to enjoy quality broadband services, 5G also enables the           |

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|    |  | development of Internet of Things and new applications such as autonomous driving, remote surgery and smart home, which are indispensable for building a smart city.   |
| 17 |  | To realise its benefits, 5G, just like the existing mobile communications networks, requires the installation of radio base stations in order to ensure good network coverage for the provision of uninterrupted communications services.                  |
| 18 |  | But I heard that these radio base stations would emit radiation.   |
| 19 | Non-ionizing Radiation   | Don't worry.<br>It is true that more radio base stations will be installed for rolling out 5G networks, but the radiation generated from these stations is in fact "non-ionizing radiation".   |
| 20 |  | What is "non-ionizing radiation"?  |
| 21 | Non-ionizing Radiation<br>Ionizing Radiation   | Sunlight, lamp light and radio broadcast are common examples of non-ionizing radiation to which we are exposed everyday.<br>Non-ionizing radiation differs greatly from ionizing radiation of X-rays and nuclear radiation for medical and industrial use. |
| 22 | According to the World Health Organization, there is no sufficient scientific evidence indicating that exposure of the human body to non-ionizing radiation below the safety limits will cause adverse health effects. | Non-ionizing radiation has little energy and is incapable of changing the chemical properties of substances.<br>Also, it cannot cause health hazard by breaking chemical bonds in the human body.  |
| 23 | Similar safety standards are commonly adopted by many places,  | Currently, all radio base stations installed in Hong Kong, before bringing into use, are required to obtain approval from the Communications Authority (CA) and comply   |

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|    | such as UK, US, Canada, Australia, New Zealand, Japan and Korea. | with the safety standard of the International Commission on Non-ionizing Radiation Protection (ICNIRP) as adopted by the CA.<br>The adoption of such standard is also supported by the Department of Health. Similar safety standards are commonly adopted by many places, such as UK, US, Canada, Australia, New Zealand, Japan and Korea. |
| 24 |  | So it is just over-worrying that non-ionizing radiation from radio base stations will cause adverse effects to our health.  |
| 25 |  | Just as I said, there can't be so much radiation.<br>Let's go home.   |
| 26 | OFCA hotline: 2961 6648  | If you are concerned about the level of non-ionizing radiation from radio base stations near your home, you may contact the Office of the Communications Authority (OFCA) to arrange for an on-site measurement of the radiation level to put your mind at ease.  |
| 27 | CA Logo<br><a href="http://www.5g.gov.hk">www.5g.gov.hk</a>      |   |