**Peer-reviewed science studies since IARC 2011**

**Brain cancers, 14 studies;**

1. Lehrer S, Green S, Stock RG. Association between number of cell phone contracts and brain tumor incidence in nineteen U.S. States. J Neurooncol. 2011 Feb;101(3):505-7;
2. Cardis E, Armstrong BK, Bowman JD, Giles GG, Hours M, Krewski D, McBride M, Parent ME, Sadetzki S, Woodward A, Brown J, Chetrit A, Figuerola J, Hoffmann C, Jarus-Hakak A, Montestruq L, Nadon L, Richardson L, Villegas R, Vrijheid M. Risk of brain tumours in relation to estimated RF dose from mobile phones: results from five Interphone countries. Occup Environ Med. 2011 Sep;68(9):631-40.
3. Aydin D, Feychting M, Schüz J, Tynes T, Andersen TV, Schmidt LS, Poulsen AH, Johansen C, Prochazka M, Lannering B, Klæboe L, Eggen T, Jenni D, Grotzer M, Von der Weid N, Kuehni CE, Röösli M. Mobile phone use and brain tumors in children and adolescents: a multicenter case-control study. Natl Cancer Inst. 2011 Aug 17;103(16):1264-76.
4. Hardell L, Carlberg M, Söderqvist F, Mild KH. Case-control study of the association between malignant brain tumours diagnosed between 2007 and 2009 and mobile and cordless phone use. Int J Oncol. 2013 Dec; 43(6):1833-45
5. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.
6. Carlberg M, Hardell L. On the association between glioma, wireless phones, heredity and ionising radiation. Pathophysiology. 2012 Sep;19(4):243-52.
7. Carlberg & Hardell. Decreased survival of glioma patients with astrocytoma grade IV (glioblastoma multiforme) associated with long-term use of mobile and cordless phones. Int J Environ Res Public Health. 2014 Oct 16;11(10):10790-805.
8. Akhavan-Sigari R, Mazloum Farsi Baf M, Ariabod V, Rohde V, Rahighi S. Connection between Cell Phone use, p53 Gene Expression in Different Zones of Glioblastoma Multiforme and Survival Prognoses. Rare Tumors. 2014 Aug 8;6(3):5350.
9. Coureau G, Bouvier G, Lebailly P, Fabbro-Peray P, Gruber A, Leffondre K, Guillamo JS, Loiseau H, Mathoulin-Pélissier S, Salamon R, Baldi I. Mobile phone use and brain tumours in the CERENAT case-control study. Occup Environ Med. 2014 Jul;71(7):514-22.
10. Hardell L, Carlberg M. Mobile phone and cordless phone use and the risk for glioma - Analysis of pooled case-control studies in Sweden, 1997-2003 and 2007-2009. Pathophysiology. 2015 Mar;22(1):1-13.
11. Hardell L, Carlberg M. Mobile phone and cordless phone use and the risk for glioma - Analysis of pooled case-control studies in Sweden, 1997-2003 and 2007-2009. Pathophysiology. 2015 Mar;22(1):1-13. [This study cited 3 studies that reported that 3G-UMTS radiation inhibits DNA repair genes (A: I.Y. Belyaev, E. Markova, L. Hillert, L.O.G. Malmgren, B.R.R. Persson, Microwaves from UMTS/GSM mobile phones induce long-lasting inhibition of 53BP1/-H2AX DNA repair foci in human lymphocytes, Bioelectromagnetics 30 (2009) 129–141. B: I. Belyaev, Dependence of non–thermal biological effects of microwaves on physical and biological variables: implications for reproducibility and safety standards, in: L. Giuliani, M. Soffritti(Eds.), European J. Oncol.—Library Non–Thermal Effects and Mechanisms of Interaction between Electromagnetic Fields and Living Matter, 5, Ramazzini Institute, Bologna, Italy, 2010, pp. 187–218(An ICEMS Monograph). <http://www.icems.eu/papers.htm?f=/c/a/2009/12/15/MNHJ1B49KH.DTL),\>. C: E. Markova, L.O.G. Malmgren, I.Y. Belyaev, Microwaves from mobile phones inhibit 53BP1 focus formation in human stem cells more strongly than in differentiated cells: possible mechanistic link to cancer risk, Environ. Health Perspect. 118 (2010) 394–399.)]
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13. de Vocht F. Inferring the 1985-2014 impact of mobile phone use on selected brain cancer subtypes using Bayesian structural time series and synthetic controls. Environ Int. 2016 Nov 8; 97:100-107.
14. Carlberg M, Koppel T, Ahonen M, Hardell L. Case-control study on occupational exposure to extremely low-frequency electromagnetic fields and glioma risk. Am J Ind Med. 2017 May;60(5):494-503.
15. Carlberg M, Hardell L. Evaluation of Mobile Phone and Cordless Phone Use and Glioma Risk Using the Bradford Hill Viewpoints from 1965 on Association or Causation. Biomed Res Int. 2017;2017:9218486.

**Meningiomas, 6 studies:**

1. Cardis E, Armstrong BK, Bowman JD, Giles GG, Hours M, Krewski D, McBride M, Parent ME, Sadetzki S, Woodward A, Brown J, Chetrit A, Figuerola J, Hoffmann C, Jarus-Hakak A, Montestruq L, Nadon L, Richardson L, Villegas R, Vrijheid M. Risk of brain tumours in relation to estimated RF dose from mobile phones: results from five Interphone countries. Occup Environ Med. 2011 Sep;68(9):631-40.
2. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.
3. Carlberg M, Söderqvist F, Hansson Mild K, Hardell L. Meningioma patients diagnosed 2007-2009 and the association with use of mobile and cordless phones: a case-control study. Environ Health. 2013 Jul 19;12(1):60.
4. Coureau G, Bouvier G, Lebailly P, Fabbro-Peray P, Gruber A, Leffondre K, Guillamo JS, Loiseau H, Mathoulin-Pélissier S, Salamon R, Baldi I. Mobile phone use and brain tumours in the CERENAT case-control study. Occup Environ Med. 2014 Jul;71(7):514-22.
5. Carlberg M, Hardell L. Pooled analysis of Swedish case-control studies during 1997-2003 and 2007-2009 on meningioma risk associated with the use of mobile and cordless phones. Oncol Rep. 2015 Jun;33(6):3093-8.
6. Carlberg M, Hardell L. Pooled analysis of Swedish case-control studies during 1997-2003 and 2007-2009 on meningioma risk associated with the use of mobile and cordless phones. Oncol Rep. 2015 Jun;33(6):3093-8.

**Hearing nerve tumors, 5:**

1. Stein et al., A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.
2. Benson VS, Pirie K, Schüz J, Reeves GK, Beral V, Green J; Mobile phone use and risk of brain neoplasms and other cancers: prospective study. Int J Epidemiol. 2013 Jun;42(3):792-802.
3. Hardell L, Carlberg M, Söderqvist F, Mild KH. Pooled analysis of case-control studies on acoustic neuroma diagnosed 1997-2003 and 2007-2009 and use of mobile and cordless phones. Int J Oncol. 2013 Oct;43(4):1036-44.
4. Moon IS, Kim BG, Kim J, Lee JD, Lee WS. Association between vestibular schwannomas and mobile phone use. Tumour Biol. 2014 Jan;35(1):581-7.
5. Pettersson D, Mathiesen T, Prochazka M, Bergenheim T, Florentzson R, Harder H, Nyberg G, Siesjö P, Feychting M. Long-term mobile phone use and acoustic neuroma risk. Epidemiology. 2014 Mar;25(2):233-41.

**Cheek salivary gland cancers, 5:**

1. Goldwein O, Aframian DJ. The influence of handheld mobile phones on human parotid gland secretion. Oral Dis. 2010 Mar;16(2):146-50.
2. Czerninski, Rakefet; Zini, Avi; Sgan-Cohen, Harold D. Risk of Parotid Malignant Tumors in Israel (1970–2006). Epidemiology: January 2011 - Volume 22 - Issue 1 - pp 130–131.
3. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.
4. de Siqueira EC, de Souza FT, Gomez RS, Gomes CC, de Souza RP. Does cell phone use increase the chances of parotid gland tumor development? A systematic review and meta-analysis. J Oral Pathol Med. 2016 Dec 9.
5. Al-Qahtani K. Mobile phone use and risk of parotid gland tumors: A retrospective case-control study. The Gulf Journal of Oncology. Issue 29, January 2016.

**Eye cancers, 4:**

1. Stang et al. The Possible Role of Radiofrequency Radiation in the Development of Uveal Melanoma. Epidemiology. 2001 Jan;12(1):7-12.
2. Behrens T, Lynge E, Cree I, Sabroe S, Lutz JM, Afonso N, Eriksson M, Guénel P, Merletti F, Morales-Suarez-Varela M, Stengrevics A, Févotte J, Llopis-González A, Gorini G, Sharkova G, Hardell L, Ahrens W. Occupational exposure to electromagnetic fields and sex-differential risk of uveal melanoma. Occup Environ Med. 2010 Nov;67(11):751-9.
3. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.
4. Milham S, Stetzer D. Tumor-specific frequencies and ocular melanoma. Electromagn Biol Med. 2016 Aug 23:1–5.

**Breast cancers (male & female), 4:**

1. Milham S, Morgan LL. A new electromagnetic exposure metric: high frequency voltage transients associated with increased cancer incidence in teachers in a California school. Am J Ind Med. 2008 Aug;51(8):579-86
2. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.
3. West JG, Kapoor NS, Liao SY, Chen JW, Bailey L, Nagourney RA. Multifocal Breast Cancer in Young Women with Prolonged Contact between Their Breasts and Their Cellular Phones. Case Rep Med. 2013;2013:354682.
4. Sun JW, Li XR, Gao HY, Yin JY, Qin Q, Nie SF, Wei S. Electromagnetic field exposure and male breast cancer risk: a meta-analysis of 18 studies. Asian Pac J Cancer Prev. 2013;14(1):523–8.

**Skin cancers, 3:**

Milham S, Morgan LL. A new electromagnetic exposure metric: high frequency voltage transients associated with increased cancer incidence in teachers in a California school. Am J Ind Med. 2008 Aug;51(8):579–86.

1. Hardell L, Carlberg M, Hansson Mild K, Eriksson M. Case-control study on the use of mobile and cordless phones and the risk for malignant melanoma in the head and neck region. Pathophysiology. 2011 Sep;18(4):325–33.
2. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.

**Leukemia, 3:**

1. Kaufman DW, Anderson TE, Issaragrisil S. Risk factors for leukemia in Thailand. Ann Hematol. 2009 Nov;88(11):1079–88.
2. Cooke R, Laing S, Swerdlow AJ. A case-control study of risk of leukaemia in relation to mobile phone use. Br J Cancer. 2010 Nov 23;103(11):1729-35.\
3. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011.

**Lymphomas, 2:**

1. Milham S, Morgan LL. A new electromagnetic exposure metric: high frequency voltage transients associated with increased cancer incidence in teachers in a California school. Am J Ind Med. 2008 Aug;51(8):579-86. [One Burkett’s lymphoma case, a type of non-Hodgkin’s lymphoma.]
2. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011. [Stein et al. reported 9 cases of lymphoma among 56 Israeli military personnel (16%). Four cases were Hodgkin’s lymphoma, 4 cases were non-Hodgkin’s lymphoma and 1 case was a B-cell lymphoma.]

**Thyroid cancers, 4;**

1. Milham S, Morgan LL. A new electromagnetic exposure metric: high frequency voltage transients associated with increased cancer incidence in teachers in a California school. Am J Ind Med. 2008 Aug;51(8):579–86.
2. Carlberg M, Hedendahl L, Ahonen M, Koppel T, Hardell L. Increasing incidence of thyroid cancer in the Nordic countries with main focus on Swedish data. BMC Cancer. 2016 Jul 7;16:426.
3. Lim H, Devesa SS, Sosa JA, Check D, Kitahara CM. Trends in Thyroid Cancer Incidence and Mortality in the United States, 1974-2013. JAMA. 2017 Apr 4;317(13):1338-1348.
4. Luo J, Deziel NC, Huang H, Chen Y, Ni X, Ma S, Udelsman R, Zhang Y. Cell phone use and risk of thyroid cancer: a population-based case-control study in Connecticut. Ann Epidemiol. 2018 Oct 29. Accessed 25 Nov. 2018

**Multiple cancers, 4:**

1. Peleg M. Report on a Cancer Cluster in an Antenna Ranges Facility. IEEE COMCAS 2009 conference, Tel-Aviv, 9-11 Nov. 2009. [Five out of about 30 workers were diagnosed with unstated cancers.]
2. Milham S, Morgan LL. A new electromagnetic exposure metric: high frequency voltage transients associated with increased cancer incidence in teachers in a California school. Am J Ind Med. 2008 Aug;51(8):579-86. [In addition to the cancers reported above, there were 2 uterine cancers, 1 polycthemia vera, 1 multiple myeloma, 1 colon cancer, 1 pancreatic cancer, 1 amloidosis, and 1 leiomyosarcoma.]
3. Stein et al. A sentinel case series of cancer patients with occupational exposures to electromagnetic non-ionizing radiation and other agents. Eur. J. Oncol., vol. 16, n. 1, 2011. [In addition to the cancers reported above, there was 1 pineal gland tumor, 1 nasopharynx cancer, 1 rectal cancer, 5 testicular cancers, 2 lung cancers, 1 liver cancer, 1 squamous cell tumor, 1 plasmacytoma, 3 bone cancers, 3 prostate cancers, 1 Ewing;s sarcoma and 1 renal cell cancer.
4. Peleg M, Nativ O, Richter ED. Radio frequency radiation-related cancer: assessing causation in the occupational/military setting. Environ Res. 2018 May;163:123-133.