

Analysis of 140 Studies Submitted by Canadians for Safe Technology (C4ST) During the Public Comment Period on Safety Code 6

By C4ST Category	# submitted		# with sufficient quality for inclusion in RA α
	by C4ST	# (in scope) \ddagger	
Cancer	9	6	6
Generic Damage	14	13	2
Infertility	14	13	1
Dev./Learn./Behavior	30	24	7
Brain/Nervous System	44	42	13
Eye	6	5	2
Cardiovascular	4	4	2
EHS	8	3	1
Biochemical	65	58	16
	194	168	50

(See Note 1)

Note 1: many papers listed in the categories above are duplicates and appear in more than one category.

Total # of unique (in-scope, sufficient quality) technical references submitted by C4ST, with duplicates removed = 36.

\ddagger Papers were considered to be in scope if:

- It was a comprehensive review or risk assessment conducted by an international health agency
- Studies were peer-reviewed (conference presentations / abstracts / posters were not included)
- Frequency range examined was between 3 kHz and 300 GHz (the frequency range covered by Safety Code 6)
- Primary paper (C4ST submitted abstracts) was written in English or French (two papers were excluded on this basis)
- The study was an animal, *in vitro*, human experimental, or dosimetry study.

α Studies were considered not to be of sufficient quality for inclusion due to one of the following reasons:

- No dosimetry was provided (i.e. it was not possible to determine the dosage studied)
- Study lacked an appropriate control (i.e. did not look at a sample that was treated identically but not exposed to RF energy)
- Experiments within the study were not repeated a sufficient number of times ($N \leq 2$)
- No statistical analysis of results was conducted or statistical analysis was improper
- Improperly conducted scientific techniques.

A list of the 36 studies submitted by C4ST that were considered to be in scope and of sufficient quality for risk assessment can be found on the next page. It is important to note that all 36 of these studies were considered and reviewed by Health Canada scientists during the revision of Safety Code 6.

List of "in-scope" technical references submitted by C4ST that meet quality standards for RA

Year	Authors
2010	Ammari, M., Gamez, C., Lecomte, A., Sakly, M., Abdelmelek, H. & De Seze, R.
2010	Augner, C., Hacker, G.W., Oberfeld, G., Florian, M., Hitzl, W., Hutter, J. & Pauser, G.
2009	Bas, O., Odaci, E., Kaplan, S., Acer, N., Ucok, K. & Colakoglu, S.
2010	Belyaev I, Markova E, Malmgren L.
2012	Bouji, M., Lecomte, A., Hode, Y., de Seze, R. & Villégier, A.S.
2013	Byun, Y.H., Ha, M., Kwon, H.J., Hong, Y.C., Leem, J.H., Sakong, J., Kim, S.Y., Lee, C.G., Kang, D., et al.
2011	Carballo-Quintás, M., Martínez-Silva, I., Cadarso-Suárez, C., Alvarez-Figueiras, M. et al.
2013	Cervellati, F., Valacchi, G., Lunghi, L., Fabbri, E., Valbonesi, P., Marci, R., Biondi, C. & Vesce, F.
2010	Céspedes, O., Inomoto, O., Kai, S., Nibu, Y., Yamaguchi, T., Sakamoto, N., Akune, T., Inoue, M., et al.
2014	Coureau, G., Bouvier, G., Lebailly, P., Fabbro-Peray, P., Gruber, A., Leffondre, K. et al.
2009	Dahmen, N., Ghezal-Ahmadi, D. & Engel, A.
2013	Deshmukh, P.S., Megha, K., Banerjee, B.D., Ahmed, R.S., Chandna, S., Abegaonkar, M.P. et al.
2010	Divan, H.A., Kheifets, L., Obel, C. & Olsen, J.
2011	Esmekaya, M.A., Ozer, C. & Seyhan, N.
2014	Furtado-Filho, O.V., Borba, J.B., Dallegrave, A., Pizzolato, T.M., Henriques, J.A. et al.
2010	Grigoriev, Y.G., Grigoriev, O.A., Ivanov, A.A., Lyaginskaya, A.M., Merkulov, A.V., Shagina, N.B., et al.
2011	Hardell, L., Carlberg, M. & Mild, K.H.
2013	Hardell, L. & Carlberg, M.
2013	Hardell, L., Carlberg, M., Soderqvist, F. & Mild, K.H.
2014	Liu, K., Li, Y., Zhang, G., Liu, J., Cao, J., Ao, L. & Zhang, S.
2013	Loos, N., Thuróczy, G., Ghosn, R., Brenet-Dufour, V., Liabeuf, S., Selmaoui, B., Libert, J.P. et al.
2012	Lu, Y., Xu, S., He, M., Chen, C., Zhang, L., Liu, C., Chu, F., Yu, Z., Zhou, Z. & Zhong, M.
2014	Lv, B., Chen, Z., Wu, T., Shao, Q., Yan, D., Ma, L., Lu, K. & Xie, Y.
2010	Lyaqinskaja, A.M., Grigoriev, Y.G., Osipov, V.A., Grigoriev, O.A. & Shafirkin, A.V.
2014	Maaroufi, K., Had-Aissouni, L., Melon, C., Sakly, M., Abdelmelek, H., Poucet, B. & Save, E.
2014	Maskey, D. & Kim, M.J.
2012	Megha, K., Deshmukh, P.S., Banerjee, B.D., Tripathi, A.K. & Abegaonkar, M.P.
2012	Misa Agustiño, M.J., Leiro, J.M., Jorge Mora, M.T., Rodríguez-González, J.A., Jorge Barreiro, F.J., et al.
2013	Moretti, D., Garenne, A., Haro, E., Poullietier de Gannes, F., Lagroye, I., Lévêque, P. et al.
2012	Naziroğlu, M., Çelik, Ö., Özgül, C., Çiğ, B., Doğan, S., Bal, R., Gümrall, N., et al.
2013	Ni, S., Yu, Y., Zhang, Y., Wu, W., Lai, K. & Yao, K.
2010	Sonmez, O.F., Odaci, E., Bas, O. & Kaplan, S.
2014	Souza, Lda C., Cerqueira, Ede M. & Meireles, J.R.
2013	West JG, Kapoor NS, Liao S-Y, Chen JW, Bailey L, Nagourney RA.
2014	Valbonesi, P., Franzellitti, S., Bersani, F., Contin, A. & Fabbri, E.
2013	Zhang, Y., Yao, K., Yu, Y., Ni, S., Zhang, L., Wang, W. & Lai, K.