

A Comparison of Wireless Device Emissions to the Scientific Research

<u>Radiation Levels</u> (uW/m ²)	<u>Effects</u>	<u>Researcher</u>	<u>Year</u>
10,000,000	FCC Exposure Guidelines, 30 min public exposure, based solely on thermal effects	FCC	1986
500,000	2 feet from microwave oven		
90,000	iPads and WiFi enabled laptops - direct body contact		
60,000	DNA damage in cells	Phillips	1998
52,500	Induced stress response	Kwee	2001
50,000	2 feet from a DECT cordless phone base, WiFi router, or WiFi enabled iPad		
50,000	Impaired nervous system activity	Dumansky	1974
40,000	Slowed memory/altered immune function in children	Chiang	1989
40,000	Changes in hippocampus, part of brain memory, learning.	Tattersall	2001
30,000	Irreversible infertility (in mice at 3 generations)	Magras	1997
22,000	2 feet from a WiFi enabled Laptop	Khalid	2011
20,000	Double-strand DNA damage	Kesari	2008
13,000	2x rate of leukemia in adults	Dolk	1997
12,500	Affected kidney development	Pyrpasopoulou	2004
8,000	Emotional behavior changes (free-radicals)	Akoev	2002
6,000	Change in calcium ion efflux from brain tissue	Dutta	1986
5,000	10 feet from a wireless smart meter	Tell	2013
5,000	Decreased sperm motility and increased DNA fragmentation	Advendano	2010
3,800	Affected calcium metabolism in heart cells	Schwartz	1990
3,500	Pathological leakage in blood-brain barrier	Salford	2003
3,000	Affected neurological system, brain function	Vorobyov	2010
2,000	Decreased survival in children with leukemia	Hocking	2000
2,000	2x rate of leukemia in children	Hocking	1996
1,700	Irreversible infertility (in mice at 5 generations)	Magras	1997
1,600	Negatively affected memory, attention, motor function of schoolchildren	Kolodynski	1996
1,500	Reduced memory function	Nittby	2007
1,300	Decreased cognition, well-being	Zwamborn	2003
1,000	10 feet from a DECT cordless phone base unit or WiFi Router		
700	Sperm head abnormalities in mice	Otitolaju	2010
638	Decreased cognitive function	Papageorgiou	2011
600	Slowing of heart, change in EEG	Serkyuk	1980
500	400 yards from a cell tower		
500	Adverse neurological, cardiovascular symptoms and cancer risk	Khurana	2010
500	10x increased risk of cancer in women, with short latency.	Wolf	2004
400	10 feet from a WiFi enabled Laptop		
300	Headaches, memory changes, depressive symptoms, sleeping problems	Rassoul et al.	2000
100	Behavioral disruption	Navakatikan	1994
100	Significant increase in breast cancer and brain tumours.	Oberfeld	2008
100	Fatigue, headaches, sleeping problems	Navarro	2003
100	Headaches, concentration problems, sleeping problems	Hutter	2006
50	Headaches, fatigue, cardiovascular issues	Kundi	2009
50	In adults (30-60), chronic exposure caused sleep disturbances	Mohler	2010
30	In children and adolescents (8-17 yrs) behavioral problems in school	Thomas	2010
30	In children and adolescents (8-17 yrs) headaches, irritation, concentration difficulties in school	Heinrich	2010
20	Sleep disorders, abnormal blood pressure, nervousness, fatigue, joint pain, digestive disorders, fewer schoolchildren promoted	Altpeter	1995
6	Fatigue, depressive tendency, sleeping disorders, concentration difficulties, cardiovascular problems	Oberfeld	2004
5	Decreased cell proliferation	Velizarov	1999
3	Significantly reduced sperm count	Behari	2006
0.001	*** Low Radiation Natural Environments ***		