

HEALTH CONDITIONS

Why Is California an Autism Hotspot?

Autism rates are surging, but the numbers aren't uniform across all regions. California reported the highest rate at 46.4 per 1,000, while Utah saw the lowest at 12.7 per 1,000. Stark gender and racial disparities also exist in autism diagnoses.

by **Dr. Joseph Mercola**

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Understanding EMFs and their impact on brain health

Electromagnetic fields (EMFs) have been likened to the cigarettes of the modern era, with the majority of individuals exposed to them around the clock. Key sources of this pervasive radiation include cellphones, cell towers, computers, smart meters and Wi-Fi devices, among others.

Exposure to EMFs is linked to significant **mitochondrial dysfunction** caused by free radical damage. Chronic **exposure to EMFs** leads to serious brain-related conditions such as Alzheimer's disease, anxiety, depression and autism.

A study published in **Pathophysiology** indicates that autism may be connected to biological disruptions similar to those caused by EMF and radiofrequency exposures.

Additionally, Dr. Martin Pall discovered a novel mechanism of harm from microwaves emitted by cellphones and other wireless technologies. This harm occurs through **voltage-gated calcium channels** (VGCCs) located in your cell membranes.

VGCCs are highly concentrated in the brain, and animal studies have demonstrated that even low levels of microwave EMFs produce significant and diverse effects on brain function. When EMFs activate these VGCCs, it results in a variety of neuropsychiatric issues.

To date, at least 26 studies have associated **EMFs with neuropsychiatric effects** and five specific criteria have been established to confirm a causal relationship, indicating that EMFs can indeed cause these adverse effects.

In another study, published in *Brain Sciences*, Pall highlights how VGCCs in your body's cells lead to **excessive intracellular calcium** levels.

This calcium overload disrupts processes involved in brain development, particularly during the perinatal period when synaptogenesis — the formation of synapses — is at its peak.

Synaptogenesis is essential for establishing the intricate networks that underlie social interactions, communication and behavior. When EMFs interfere with this process by overactivating VGCCs, it leads to the synaptic dysfunctions observed in ASD.

Compelling evidence — How EMFs contribute to autism

The evidence linking EMF exposure to autism is both extensive and compelling. Genetic studies have shown that mutations increasing VGCC activity are directly associated with higher autism rates, underscoring the significance of calcium regulation in autism causation.

Animal studies further reinforce this connection, where prenatal EMF exposure in rodents led to autism-like behaviors and significant changes in brain structure and function.

For instance, rats exposed to EMFs exhibited impaired social interactions and **elevated oxidative stress**, mirroring the biochemical and behavioral traits seen in human autism patients.

Additionally, epidemiological research, though limited, has identified correlations between high-EMF environments — such as areas near military radar stations or where pregnant women had elevated EMF exposures — and increased autism prevalence.

These findings collectively suggest that EMFs are not just a coincidental factor but a driver of the autism epidemic.

While completely avoiding EMF exposure is nearly impossible, there are practical methods to minimize it. Given the constant barrage of EMFs in daily life, educating yourself about their negative impacts is imperative for your health.

This is especially important if you are managing a serious illness or a neurodevelopmental disorder like autism. Taking steps to **reduce your EMF exposure** will significantly benefit your well-being.

One effective strategy is to connect your desktop computer to the internet using a wired connection and activate airplane mode on both your desktop and cellphone.

Additionally, steer clear of wireless peripherals such as keyboards, trackballs, mice, game systems, printers and landline phones. Instead, opt for their wired counterparts.

If you need to use Wi-Fi, remember to turn it off when it's not in use, particularly at night while you sleep. Turning off the electricity in your bedroom during nighttime also helps decrease your overall EMF exposure.

Taking action for a healthier future

The rising prevalence of autism, coupled with the significant economic and emotional burdens it imposes, underscores the urgency of addressing the root causes of this condition.

Prioritizing gut health through a balanced diet rich in beneficial bacteria and minimizing **exposure to harmful substances** like EMFs and excessive linoleic acid, are necessary first steps.

Moreover, understanding the profound impact of environmental factors and genetic predispositions empowers you to create a safer, more supportive environment.

Simple changes, such as opting for wired connections over wireless devices and choosing healthier fat sources, may significantly reduce the risk of developing neurodevelopmental disorders.

Additionally, advocating for cleaner environments and supporting policies that limit harmful exposures contribute to broader societal changes that benefit all children. Remember, early intervention and informed choices are your best tools in combating the rising tide of autism.

By staying informed, making conscious lifestyle adjustments and fostering a nurturing environment, you take steps toward ensuring a healthier, brighter future for children.

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How Cell Phones May Cause Autism

Rates of autism, a disabling neurodevelopmental disorder, have increased nearly 60-fold since the late 1970s, with the most significant increases occurring in the past decade.

The cause of autism is unknown, although theories include such potential causes as:

- Genetic predisposition
- Inability to clear heavy metals
- Increased vulnerability to oxidative stress
- Environmental exposures including mercury preservatives in vaccines
- Trans-generational accumulation of toxic heavy metals

Now a groundbreaking new theory has been suggested by [a study published in the Journal of the Australasian College of Nutritional & Environmental Medicine](#): electromagnetic radiation (EMR) from cell phones, cell towers, Wi-Fi devices and other similar wireless technologies as an accelerating factor in autism.

EMR May be the Missing Link

The study, which involved over five years of research on children with autism and other membrane sensitivity disorders, found that EMR negatively affects cell membranes, and allows heavy metal toxins, which are associated with autism, to build up in your body.



מתוך פרסום של דר' מרקולה ב- 2007 לגבי הקשר הסיבתי בין קרינה בלתי מייננת ואוטיזם
בחלק מהמקרים:

- פרדיספוזיציה גנטית (רגישות מולדת)
- ליקוי בפינוי מתכות כבדות מרקמות הגוף
- רגישות מוגברת לנזקי עקה חימצונית
- חשיפה סביבתית לגורמי סיכון
- העברה בין דורית של הצטברות מתכות

<http://articles.mercola.com/sites/articles/archive/2007/11/27/how-cell-phones-may-cause-autism.aspx>