

public record

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Scientists Link Autism To These Toxic Chemicals During Fetal Development

May 11, 2014 by [Arjun Walia](#). [180 Comments](#).

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The cause of autism is still unknown, but we are definitely closer to figuring it out. A new study published in the journal *PLOS Computational Biology*, from researchers at the University of Chicago revealed that autism and intellectual disability (ID) rates are linked with exposure to harmful environmental factors during congenital development.

"Essentially what happens is during pregnancy... there are certain sensitive periods where the fetus is very vulnerable to a range of small molecules – from things like plasticisers, prescription drugs, environmental pesticides and other things. Some of these small molecules essentially alter normal development. Autism appears to be strongly correlated with rate of congenital malformations of the genitals in males across the country, this gives an indicator of environmental load and the effect is surprisingly strong. The strongest predictors for autism were associated with the environment; congenital malformations on the reproductive system in males." (1) -- Andrey Rzhetsky, professor of genetic medicine and human genetics at the University of Chicago

The team analyzed data that covered more than one third of the U.S. population. Data from individual states and more than 2,100 counties were used. Fetuses, particularly males, are sensitive to multiple toxins such as environmental lead, medications and a wide variety of other synthetic molecules, like pesticides, mercury and more. Exposure to these toxins during critical stages of development is thought to explain a large portion of congenital reproductive malformations.

"It's really a very significant study, and should trigger the medical community, the scientific community and the government, looking at this especially interesting avenue for the prevention of autism. We know that one of the ways to show that there is a problem with pollution is to show through the presence of these reproductive defects and we know that there is a relationship between the presence of these defects and the presence of autism related disorders" Dr. Harbut, Providence-St John Environmental Medicine Expert

This isn't the first time that scientists have linked autism to the environment. In 2009, Hertz-Picciotto and Lora Delwiche of the UC Davis Department of Public Health Sciences analyzed 17 years of state data that tracks developmental disabilities.

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“It’s time to start looking for the environmental culprits responsible for the remarkable increase in the rate of autism in California.” [\(2\)](#) – Irva Hertz – Picciotto, epidemiology professor at University of California, David

Our environment is full of neurodevelopmental toxins, which means they alter how the brain grows. Mercury, polychlorinated diphenyl, lead, brominated flame retardants and pesticides are a few of many examples. Don’t forget about insecticides and herbicides.

Another recent study published in the *New England Journal of Medicine* compared brain autopsies of autistic children who had died from unrelated causes to those of normal ones. The autistic brains demonstrated abnormal patches of disorganized neurons that disrupted the usual distinct layers in the brain’s cortex. The study suggests that abnormalities occurred in utero during key developmental stages between 19 to 30 weeks gestation. It’s not just the toxin, it’s the timing of the exposure as well. [\(3\)](#)

In the United States alone, autism rates have risen from 1:10,000 in 1981 to 1:68 in 2014. Again, multiple studies point to the prevalence of toxins in our environment as the culprit, and there are toxins in many things. No doubt about it, we might not be looking at one cause for autism, but multiple factors associated with how we choose to live our lives on a daily basis.

So, let’s take a look at some of these toxins that could be linked to autism and other neurodevelopmental disorders.

One factor I’d like to touch upon first is the fact that autism rates in Europe have remained pretty steady over the last decade. This coincides with the fact that in more than 60 countries around the world, including Australia, Japan, and all of the countries in the European Union, there are significant restrictions or complete bans on the production and sale of GMOs and the pesticides that go with them. In the United States, government agencies have approved massive amounts of pesticides, completely ignoring the fact that they are linked to numerous health ailments. Not long ago, the Environmental Protection Agency (EPA) recently raised the allowable concentrations of Monsanto’s glyphosate, also known as “Roundup” on food crops, edible oils and animal feed (you can read more about that [here](#)). Although we don’t know for sure, it’s important to at least consider the large increase in Genetically Modified Organism (GMOs) and the massive amount of chemicals

study illustrated the tracking of just 163 chemicals, in which 99 percent of pregnant women tested positive for at least 43 different chemicals.(19)

There has even been significant concentrations of glyphosate found in the urine of people across Europe. You can read more about that [here](#). A new study from the U.S. Geological Survey, titled "Pesticides in Mississippi Air and Rain: A Comparison Between 1995 and 2007," reveals that Roundup herbicide (aka glyphosate) and its toxic degradation byproduct AMPA were found in over 75% of the air and rain samples tested from Mississippi in 2007. You can read more about that [here](#).

The above makes it clear, toxins, especially when fetuses and newborns are exposed to them have the potential to be extremely harmful. So what else are they exposed to at a young age apart from environmental toxins? They are exposed to toxins commonly found in vaccinations.

Let's be clear, more and more researchers are now considering the fact that toxins at critical stages of development can play a role in autism (as stated and illustrated many times in this article). The vaccine/autism debate has been a controversial one, but for pro-vaccine advocates, saying there is absolutely zero cause for concern is ridiculous. Just because something hasn't been found, does not mean there is zero cause for concern. So lets look at both sides.

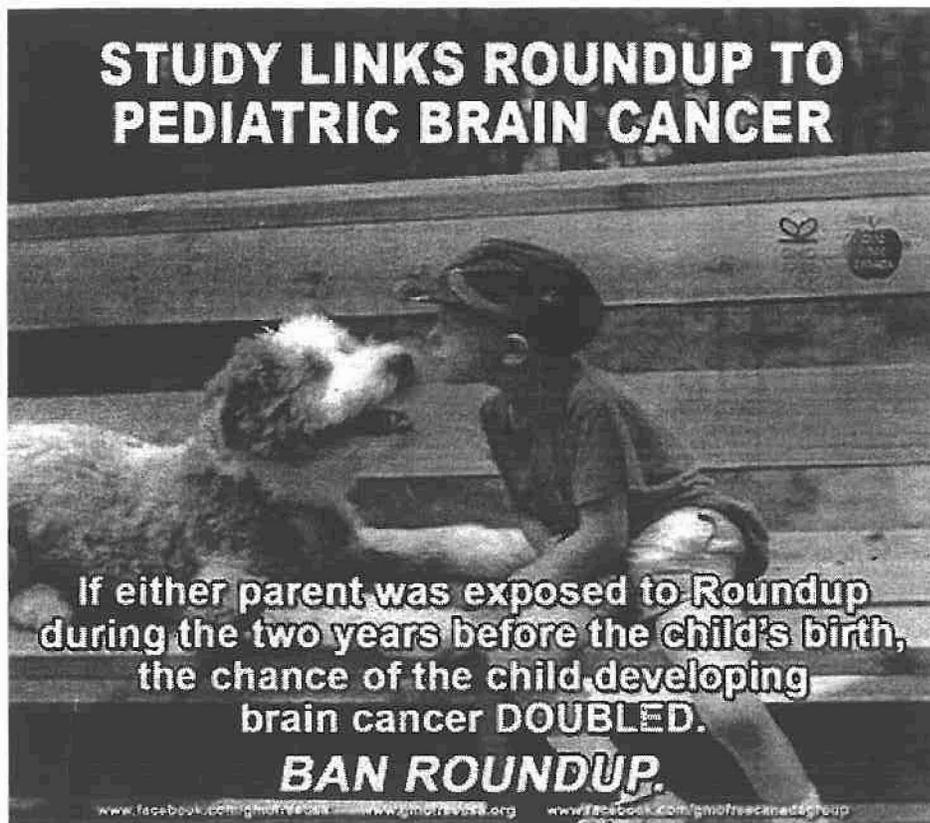
A study published in March of 2013 determined that "Increasing exposure to Antibody-Stimulating Proteins and Polysaccharides (antigens) in Vaccines is **Not** Associated with Risk of Autism." You can view that study [here](#).

On the other hand, a study published in the peer-reviewed journal *Translational Neurodegeneration* provided epidemiological evidence supporting an association between increasing organic-Hg exposure from thimerosal-containing childhood and the risk of ASD diagnosis. You can take a look at that study [here](#).

A paper published in the peer-reviewed *International Journal of Environmental Research and Public Health* titled [Thimerosal Exposure and the Role of Sulfation Chemistry and Thiol Availability in Autism](#) concluded:

"With the rate of children diagnosed with an ASD in the US now exceeding 1 in 50 children and the rate of children with neurodevelopment/behavioral disorders in the US now exceeding 1 in 6 children, and the preceding evidence showing that there is vulnerability to TM that would not be known without extensive testing, the preponderance of the evidence indicates that TM should be removed from all vaccines"

The list goes on and on, bottom line, vaccines are full of toxins, and they are administered at critical stages of development, which includes pregnant woman. This study (study linking autism to toxin exposure) further pushes the importance of looking at the multiple vaccines babies are bombarded with at birth, and the toxins found within them. For more CE articles on vaccines and autism, click [HERE](#).



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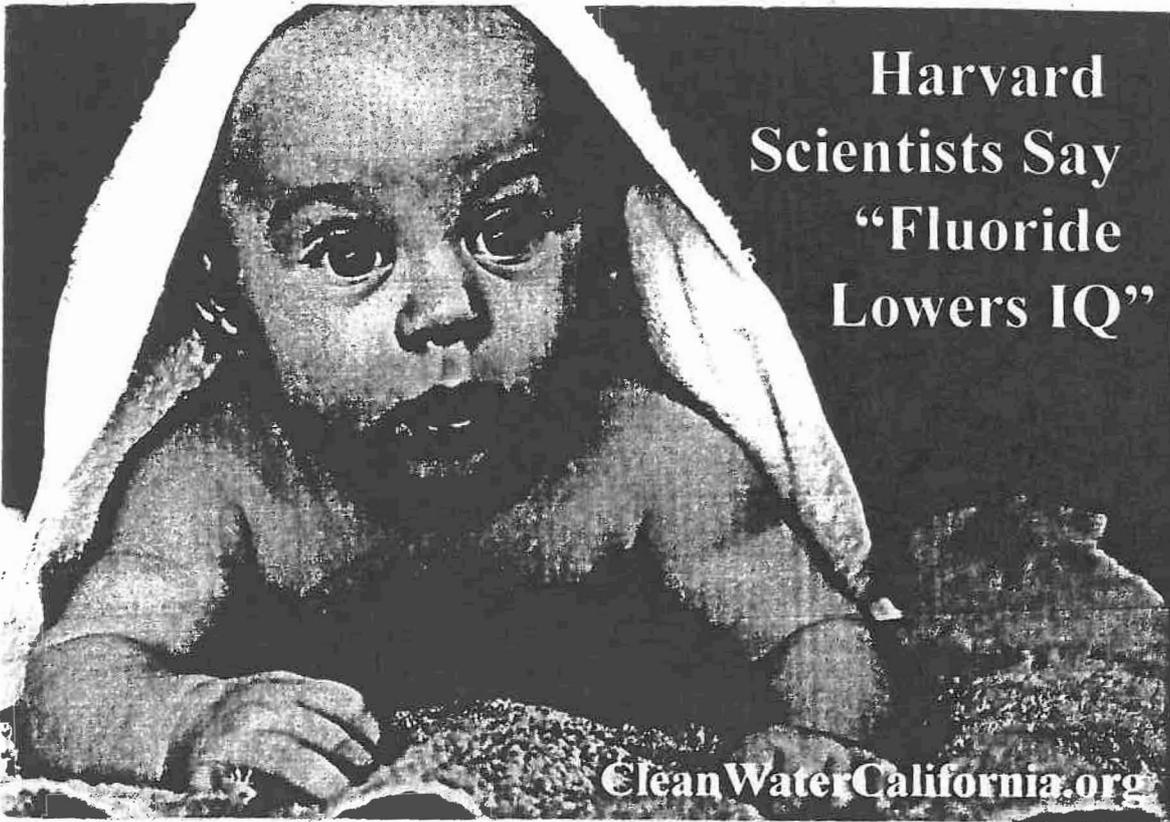
STUDY LINKS ROUNDUP TO PEDIATRIC BRAIN CANCER. If either parent was exposed to Roundup during the 2 years before the child's birth, the chance of the child developing brain cancer DOUBLED. ROUNDUP - the most toxic of 9 herbicides and pesticides recently tested. Genotoxic, neurotoxic, carcinogenic, endocrine disrupting and linked to male infertility. BAN ROUNDUP.

READ: <http://truth-out.org/.../26614-monsanto-s-roundup-linked-to-c...>

If you'd like more evidence of toxicity, here's the link to the study that found Roundup to be the most toxic of 9 herbicides and pesticides tested:

READ: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3955666/>

#Roundup #Glyphosate #pediatricbraincancer #cancer #labelgmos#needtoknowgmo #boycottKelloggs #BoycottGMOs #BANRoundup#gmo-free-canada #gmo-free-usa



Harvard
Scientists Say
“Fluoride
Lowers IQ”

CleanWaterCalifornia.org



Did You Know that the
Fluoride in Our Water is
Untreated
Industrial
Waste

CleanWaterCalifornia.org

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present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Viruses (enteric) zero TT² Gastrointestinal illness (e.g., diarrhea, vomiting, cramps) Human and animal fecal waste

Disinfection Byproducts

Contaminant	MCLG ¹ (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
<u>Bromate</u>	zero	0.010	Increased risk of cancer	Byproduct of drinking water disinfection
<u>Chlorite</u>	0.8	1.0	Anemia; infants & young children: nervous system effects	Byproduct of drinking water disinfection
<u>Haloacetic acids (HAA5)</u>	n/a ⁶	0.060	Increased risk of cancer	Byproduct of drinking water disinfection
<u>Total Trihalomethanes (TTHMs)</u>	none ⁷ n/a ⁶	0.10 0.080	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection

Disinfectants

Contaminant	MRDLG ¹ (mg/L) ²	MRDL ¹ (mg/L) ²	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
<u>Chloramines (as Cl₂)</u>	MRDLG=4 ¹	MRDL=4.0 ¹	Eye/nose irritation; stomach discomfort, anemia	Water additive used to control microbes
<u>Chlorine (as Cl₂)</u>	MRDLG=4 ¹	MRDL=4.0 ¹	Eye/nose irritation; stomach discomfort	Water additive used to control microbes
<u>Chlorine dioxide (as ClO₂)</u>	MRDLG=0.8 ¹	MRDL=0.8 ¹	Anemia; infants & young children: nervous system effects	Water additive used to control microbes

Inorganic Chemicals

Contaminant	MCLG ¹ (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
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<u>Antimony</u>	0.006	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
<u>Arsenic</u>	0.7	0.010 as of 01/23/06	Skin damage or problems with circulatory systems, and may have increased risk of getting cancer	Erosion of natural deposits; runoff from orchards, runoff from glass & electronics production wastes
<u>Asbestos (fiber >10 micrometers)</u>	7 million fibers per liter	7 MFL	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits
<u>Barium</u>	2	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
<u>Beryllium</u>	0.004	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
<u>Cadmium</u>	0.005	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
<u>Chromium (total)</u>	0.1	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits
<u>Copper</u>	1.3	TT ⁸ ; Action Level=1.3	Short term exposure: Gastrointestinal distress Long term exposure: Liver or kidney damage People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level	Corrosion of household plumbing systems; erosion of natural deposits
<u>Cyanide (as free cyanide)</u>	0.2	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
<u>Fluoride</u>	4.0	4.0	Bone disease (pain and tenderness of the bones); Children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge

<u>Lead</u>	zero	TT ⁸ ; Action Level=0.015	Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities Adults: Kidney problems; high blood pressure	from fertilizer and aluminum factories Corrosion of household plumbing systems; erosion of natural deposits
<u>Mercury (inorganic)</u>	0.002	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands
<u>Nitrate (measured Nitrogen)</u>	10	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<u>Nitrite (measured Nitrogen)</u>	1	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<u>Selenium</u>	0.05	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
<u>Thallium</u>	0.0005	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore- processing sites; discharge from electronics, glass, and drug factories

Organic Chemicals

Contaminant	MCLG ¹ (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
<u>Acrylamide</u>	zero	TT ⁹	Nervous system or	Added to water during

Water additive draws fire

Agency collects information on chloramine's effects

BY LIZ HARNELSON
DAILY NEWS STAFF REPORTER

The San Francisco Health Department is collecting information from residents on possible side effects of an added chemical in Bay Area water supplies.

About 35 people quizzed — and sometimes confronted — guest speakers from the Health Department and the San Francisco Public Utilities Commission at a Beresford-Hillsdale Neighborhood Association meeting last night in San Mateo on chloramine, a chemical used to sanitize area water supplies.

"I'm miserable. I itch. I get rashes," said Elisabeth Schierling, a San Mateo resident. "I can only shower once a week."

Before chloramine was introduced into the water, Schierling said she would swim three times a week at a local pool.

But because of her skin irritations her doctor told her to stop.

"It's a pretty miserable life," Schierling said. "There are lots of people around that are itching."

Chloramine is used worldwide to disinfect water, said June Weintraub, epidemiologist with the San Francisco Health Department. It kills pathogens. It also stays in the water longer than chlorine, which was used in the local water supply until February, so it sanitizes a larger area, Weintraub said.

Last major district

The San Francisco Public Utilities Commission, which provides water to 2.4 million Bay Area residents, was the last major water district in the state to convert to chloramine, said Lillian Brown, public relations officer for the

San Francisco agency. Chlorine is itself is known to cause bladder cancer, rectal cancer and "adverse reproductive outcomes," Weintraub said.

Questionnaire

When confronted with Schierling's side effects, Weintraub asked Schierling and others to fill out a questionnaire describing the rash so that her symptoms can be assessed to see if chloramine is at fault.

"We are aware that people have these concerns," Weintraub said. "We don't want to miss something important. We need to determine the commonalities between the exposures and the symptoms."

"We have to balance the known and the unknown risks of chloramine," Weintraub said.

THE DAILY EXAMINER. Friday-Sunday, October 8-10, 2004

Study links breast cancer

The report, "State of Evidence 2004: What is the Connection Between the Environment and Breast Cancer?" published by the Breast Cancer Fund and Breast Cancer Action, details evidence from 21 research studies published since February 2003 that link toxins in the environment to breast cancer.

According to the report, the number of breast cancer diagno-

ses in the United States tripled from 50 years ago, and parallels the increased use of chemicals in the environment.

In addition, new research published in the reports has found that chlorinated chemicals, used in drinking water and swimming pools, ethylene glycol methyl ether, a solvent used in paint varnish and fuel additives, and postmenopausal hormone replacement therapy were all shown to increase breast cancer in new studies released by the report.

The report also drew parallels between radiation, found in X-rays, CT scans, fluoroscopy and nuclear fallout from 1950 to 1991,