



Spirulina superfood consumed during pregnancy blocks cadmium from damaging developing babies - Natural News Science



Tuesday, July 23, 2013

by [Mike Adams](#), the Health Ranger

Editor of NaturalNews.com ([See all articles...](#))

Tags: [spirulina](#), [cadmium](#), [pregnancy](#)

(NaturalNews) Research [published in the Journal of Medicinal Food](#) reveals that spirulina protects unborn babies from being damaged by cadmium exposure.

This is a hugely important finding because cadmium, a highly-toxic heavy metal, is routinely found in rice and other common foods. Even organic brown rice often contains as much as 3 ppm of cadmium, Natural News has learned from laboratory tests.

Cadmium causes permanent kidney damage and bio-accumulates with alarming speed because it mimics potassium in the way it gets absorbed and integrated into the body's tissues. Even worse, cadmium has approximately a **20-year half-life in the human body**, meaning your body will naturally eliminate half of your current cadmium load roughly every two decades. (Do not be confused by the term "half-life," as cadmium is not radioactive.)

Right now, our global food supply is heavily contaminated with cadmium, in large part due to the fact that so much food is now [coming from China, a nation where cadmium pollution runs rampant](#). If spirulina can help pregnant women **protect their unborn babies from cadmium toxicity**, it could help prevent birth defects while dramatically reducing medical costs associated with metals poisoning.

Mice fed spirulina were able to protect their babies from cadmium-induced fetal damage

A study published in 2011 and conducted by the *Department of Physiology, National School of Biological Sciences, National Polytechnical Institute* in Mexico City found that rats fed a diet of [spirulina](#) ranging from 62.5mg/kg to 500mg/kg of spirulina.

The results were astounding. As the researchers wrote:

Treatment with Spirulina at the three highest doses significantly decreased the frequency of fetuses with exencephaly, micrognathia, and skeletal abnormalities induced by Cadmium (Cd).

The study goes on to conclude that spirulina vastly reduced "teratogenicity," meaning fetal damage:

Furthermore, Spirulina treatment significantly and dose-dependently decreased lipid peroxidation, which was dramatically increased by administration of the metal. The results of the present study clearly point to the therapeutic potential of Spirulina in Cadmium-induced teratogenicity and probably through its antioxidant activity.

The term "dose-dependent" means that **the more spirulina was given, the better the results.**

Organic foods often contain high levels of cadmium

It is a little-known fact that the USDA organic program does not regulate, or measure, or in any way limit the concentration of heavy metals in "certified organic" foods.

Natural News has found that many "organic" foods contain alarming levels of heavy metals such as [cadmium](#), lead, mercury, arsenic and even lighter metals like aluminum.

We have publicly questioned the integrity of China-based "organic" foods, given the fact that so many of them contain high levels of heavy metals.

California's Proposition 65, which seeks to limit heavy metal exposure in nutritional supplements and herbs, have NO LIMITS on heavy metals in foods. (Foods are exempt from Prop 65.) So while nutritional supplements must meet strict limits on lead, cadmium and other metals, **foods can contain ANY level of heavy metals** and still be legal in California (and everywhere else, too).

Learn more about cadmium and spirulina

See more details of the study at the new SCIENCE.naturalnews.com website:

<http://science.naturalnews.com/pubmed/21254891.html>

Learn more about the extreme toxicity of cadmium at:

<http://science.naturalnews.com/cadmium.html>

See more studies on spirulina at:

<http://science.naturalnews.com/spirulina.html>

See Dr. Len Saputo speak about cadmium and its link to breast cancer:



Link to video:

<http://tv.naturalnews.com/v.asp?v=73CAFD6B2958ABFEC254BAFBA2EAE983>

Articles Related to This Article:

- [High levels of lead and cadmium found in the drinking glasses of children](#)
- [High levels of cadmium found in jewelry for children](#)
- [McDonald's recalled children's cups loaded with toxic cadmium](#)
- [Halloween and specialty stores nationwide may be selling lead and cadmium poisoning to your child](#)
- [Toxic China: Heavy metal cadmium openly dumped into rivers by mining companies](#)
- [Cadmium exposure may double breast cancer risk](#)

About the author: Mike Adams is a consumer health advocate and award-winning journalist with a mission to teach personal and planetary health to the public. He has authored more than 1,800 articles and dozens of reports, guides and interviews on natural health topics, and he is well known as the creator of popular [downloadable preparedness programs](#) on [financial collapse](#), [emergency food storage](#), [wilderness survival](#) and [home defense skills](#). Adams is an independent journalist with strong ethics who does not get paid to write articles about any product or company. In 2010, Adams created TV.NaturalNews.com, a [natural living video sharing site](#) featuring thousands of user videos on foods, fitness, green living and more. He also founded an [environmentally-friendly online retailer called BetterLifeGoods.com](#) that uses retail profits to help support consumer advocacy programs. He's also the founder and CEO of a well known [email mail merge software developer](#) whose software, 'Email Marketing Director,' currently runs the NaturalNews email subscriptions. Adams volunteers his time to serve as the executive director of the [Consumer Wellness Center](#), a 501(c)3 non-profit organization, and enjoys outdoor activities, nature photography, Pilates and martial arts training. He's also author of numerous health books published by [Truth Publishing](#) and is the creator of several consumer-oriented grassroots campaigns, including the [Spam. Don't Buy It!](#) campaign, and the free downloadable [Honest Food Guide](#). He also created the free reference sites [HerbReference.com](#) and [HealingFoodReference.com](#). Adams believes in free speech, free access to nutritional supplements and the ending of corporate control over medicines, genes and seeds. Known by his callsign, the 'Health Ranger,' Adams posts his missions statements, health statistics and health photos at www.HealthRanger.org

Spirulina (Arthrospira) Protects Against Cadmium Induced Teratogenic Damage in Mice.

Publication: Journal of medicinal food

Publication Date: 2011

Study Author(s): Paniagua-Castro, Norma;Escalona-Cardoso, Gerardo;Hernández-Navarro, Dolores;Pérez-Pastén, Ricardo;Chamorro-Cevallos, Germán;

Institution: 1 Department of Physiology, National School of Biological Sciences, National Polytechnical Institute , Mexico City, Federal District, Mexico.

Shortcut link to this study: <http://science.naturalnews.com/pubmed/21254891.html>

Abstract The role of [spirulina](#) (Arthrospira) in preventing [cadmium](#) (Cd) teratogenicity in ICR mice was studied. Cd was administered intraperitoneally to female mice at 1.5 mg/kg on gestation day (GD)-7, and [spirulina](#) was given by peroral (intra-gastric) administration at 62.5, 125, 250, or 500 mg/kg from GD-0 through GD-17 (the day when animals were sacrificed). Because among the mechanisms suggested to account for reproductive damage are oxidative stress and lipoperoxidation, embryonic hydroperoxides were also determined. Treatment with Spirulina at the three highest doses significantly decreased the frequency of fetuses with exencephaly, micrognathia, and skeletal abnormalities induced by Cd. Furthermore, Spirulina treatment significantly and dose-dependently decreased lipid peroxidation, which was dramatically increased by administration of the metal. The results of the present study clearly point to the therapeutic potential of Spirulina in Cd-induced teratogenicity and probably through its antioxidant activity.

PMID: 21254891

[Click here for more Cadmium studies »](#)

Related Keywords

[cadmium](#)

[spirulina](#)

[Teratogen](#)

[Teratogenic](#)

Related Articles



[Spirulina shown to prevent and treat cancers while boosting immune system function](#)



[Add Spirulina to Your Diet and Replace those Expensive Supplements](#)



[Spirulina: A Budget Friendly Super Food and Answer to Food Scarcity](#)



[NaturalNews connects readers with premium astaxanthin and spirulina at unheard-of discount prices](#)



[An inside look at spirulina production: an exclusive interview with Dr. Gerry Cysewski, CEO of Cyanotech Corporation](#)



[Spirulina research shows treatment of breast cancer tumors, HIV virus, and other viruses](#)



[Spirulina: trace minerals content, consumer tastes, and green foods](#)



[A Statement on BMAA in Spirulina \(press release\)](#)



[Superfood Profile: Blue-Green Algae and Spirulina Offer Many Health Benefits](#)



[Spirulina explained: Here's what you need to know about this healing superfood](#)



[Workplace health enhanced by offering spirulina supplements to employees; larger studies could show reduction in health insurance costs for employers](#)



[Hawaiian Spirulina Pacifica™](#)



[Discover the radiation protective benefits of Spirulina and Chlorella](#)



[Spirulina significantly aids allergy sufferers and improves exercise performance](#)



[Discover the superfood power of spirulina](#)



[Spirulina: Immune boosting, mood enhancing, protein-rich wonder food](#)

[Click Here to View More Articles »](#)



'Organic' from China exposed: The shocking truth about 'organic' foods grown in the world's worst environmental cesspool



Thursday, February 21, 2013

by [Mike Adams](#), the Health Ranger

Editor of NaturalNews.com ([See all articles...](#))

Tags: [organic foods](#), [China](#), [pollution nightmare](#)

(NaturalNews) When it comes to foods, superfoods and even nutritional supplements from China, "organic" is largely a hoax. This is my opinion, of course, but I've been researching the issue quite extensively as the key decision maker for new products in the Natural News Store. And I've come to the conclusion that "organic" from China is largely a fraud. Here's why...

First off, you're going to be shocked to learn that **there is no limit to how much mercury, lead, cadmium, arsenic and aluminum is allowed in "organic" products.**

It's a fact: USDA organic standards place NO LIMITS on levels of heavy metals contamination of certified organic foods. Even further, there is no limit on the contamination of PCBs, BPA and other synthetic chemicals that's allowed in certified organic foods, superfoods and supplements.

At this point, you're probably shaking your head in disbelief and thinking, "No, that can't be true. Organic standards must check for heavy metals and chemical contamination, right?"

No! "Organic" certifies **a process** of how food is grown or produced. It certifies that the farmer doesn't *add* pesticides, herbicides, petroleum-based fertilizer, metals or synthetic chemicals to the crop (among other things), and it certifies that the soil must be free from such things for a certain number of years before organic certification is approved.

But organic certification does *nothing* to address **environmental sources of pollution** such as chemtrails, contaminated irrigation water, and fallout from industrial or chemical factories that might be nearby. A certified organic farmer can use **polluted water** on their crops and still have the crops labeled "organic."

For this reason: **the environment in which organic foods are produced is critical to the cleanliness of the final product.**

Organic farming in a clean environment produces clean, organic foods. But organic farming in a polluted environment produces contaminated organic foods. And China is one of the most polluted chemical cesspools on the planet. The pictures on the right show



some scenes from China, a country suffocating under a **pollution nightmare**.

As you view these pictures, ask yourself: Would you eat food grown there? Even if it were sold by Whole Foods and labeled "organic?"

China is an environmental nightmare

China is a nation that has virtually **no environmental regulation enforcement**. In China, anything goes: You can dump mercury into rivers. You can spray raw human sewage sludge on crops. You can produce factory-made chemicals and blow the waste products right into the air through smokestacks. In China, many rivers are so toxic that, from time to time, they actually catch on fire and burn.

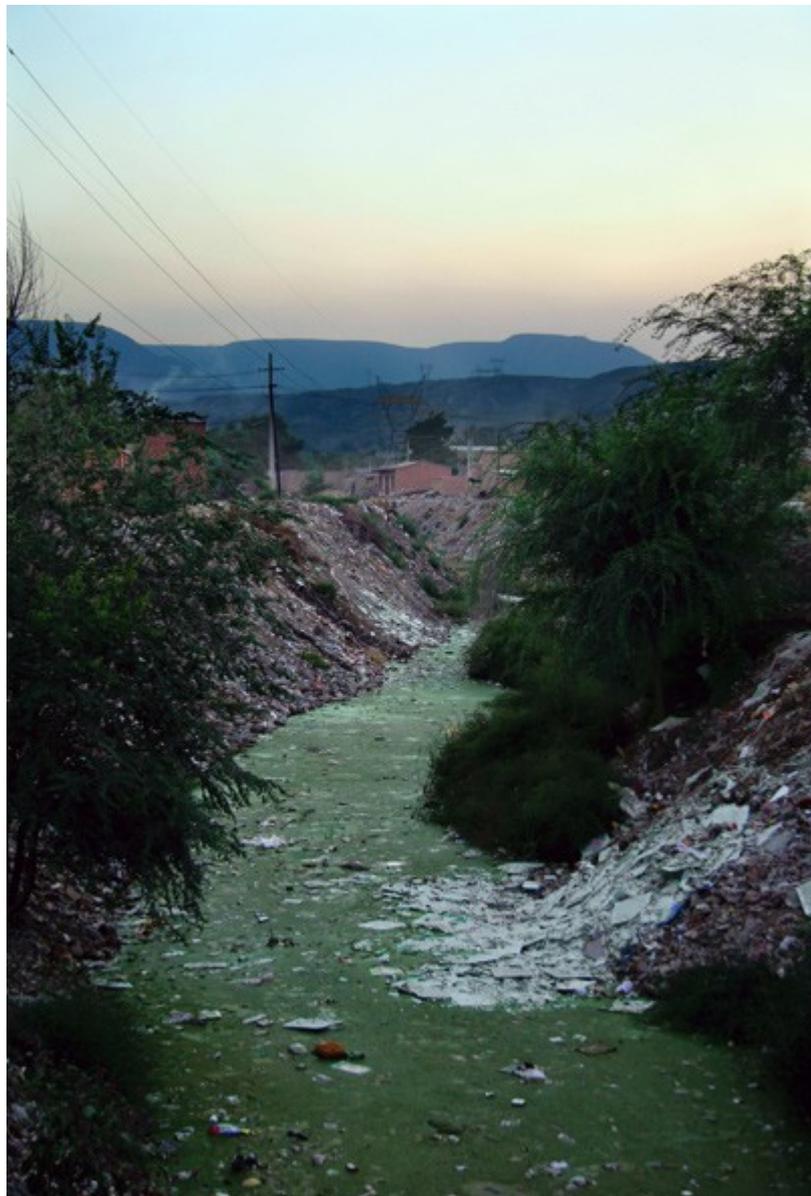
It's so bad that a Chinese environmental official was recently [offered over US\\$30,000 to take a 20-minute swim](#) in a local river.

He DECLINED. Why? Because the river there is so polluted that swimming in it would mean certain death.

It is this water that's often used in "organic" food and superfood production in China. So even though the farmer is following organic process standards, he may be using irrigation water that's wildly contaminated with metals, chemicals and even pesticide residues. He may be spraying hormone drugs on the crops because there's a pharmaceutical factory upstream.

Here's the kicker: **In a country with virtually no environmental laws, "organic" food production is largely a fraud** because environmental sources contaminate the foods or superfoods being produced there.

There are some exceptions to this, by the way. Notably **goji berries** are grown at high altitude, far away from the pollution of China's cities and rivers. Goji berries sourced from China tend to be very clean and have very low levels of contamination. There are no doubt other exceptions to the rule, but the difficulty is in knowing **what to trust** that comes out of China.



In North America, "**organic**" is **legitimate** precisely because North America has far more strict environmental standards. Organic is clean food, responsibly produced, and consistently less contaminated than conventional food. The same is true across Europe, where organic standards are also strict. But in China, "organic" is often a joke. Almost a hoax, in my opinion.

And the laboratory tests bear this out. For example, we just published [an investigative story on chlorella](#) showing that "organic" chlorella from China is polluted with nearly **ten times the aluminum level** of "organic" chlorella from Taiwan. And the cleanest chlorella we found in terms of metals contamination was actually a non-organic chlorella produced in Korea.

China is a nation that lacks ethics

Remember, too, that China is a communist regime. It is a country where all religion has been outlawed and the people are never taught ethics or morality. They have no moral compass. Across China, the majority of the population believes that the best way to get ahead is to CHEAT, lie and steal, even if it means harming someone else in the process.

Remember: China is the country where they put [melamine in infant formula](#), knowing that it will kill little children. China is the country where the paint on children's toys contains obscene levels of brain-damaging lead. China is a nation of shortcut-takers who will do *anything* to cheapen a product as long as they can cover it up and trick the buyer. This is why "made in China" has, for decades, been synonymous with "crap quality."

Here's a little note that will interest **pet owners**: If you buy pet treats made in China, you are murdering your pet with the most insane chemicals imaginable. The stuff that goes into some pet treats made in China is highly toxic and causes cancer. This is one of the main factors behind the alarming rise of cancers among dogs and cats in North America.

All this isn't just secondhand information, by the way: I lived in Asia for two years and traveled extensively throughout the region. I speak a fair amount of Mandarin (Chinese), and I've interacted with lots and lots of people from China, Hong Kong and Taiwan. I can tell you that **Taiwan is a country with much greater honesty, integrity and quality**



than China. In Taiwan, religion is allowed and openly practiced (Buddhism, mostly). In Taiwan, there is a sense of responsibility to customers. There is a philosophy of striving for quality. Taiwan is to China like revolutionary America was to the British Empire. Taiwan is a island nation of hard-working, creative, innovative entrepreneurs, and when I look to import products from Asia, I always try to find it in Taiwan first because I know Taiwan means quality.

But in China, it's exactly the opposite: There is no sense of responsibility to customers. The overriding philosophy is to *screw the customer*, even on the very first order, knowing that the customer will never buy from you again! In China, the idea is to CHEAT people rather than make them happy. You see this all the way to the top of the government which is, of course, a police state communist regime where laws are enforced at gunpoint against a completely disarmed and helpless population that has no rights. China is **a culture of corruption, deception and exploitation.**

Now, of course, there are people in China who rebel against all this. There are exceptions to the rule, and there may even be some honest organic food producers in China that buck the trend. Not all mainland Chinese are bad people. Many wish to overthrow the corrupt government and restore freedom, liberty and justice to the country. But because they are all disarmed (China has no Bill of Rights), they are powerless against a dictatorial government. They are slaves to the system.

Health Ranger Select brand BANS all foods, superfoods and ingredients from China except for goji berries

I made a decision months ago to ban anything produced in China from my own label, with the exception being goji berries. If a food, superfood or supplement has my name on it, I will not use ingredients sourced from China unless I know and can VERIFY the end-product cleanliness of the product.

So if you see the "Health Ranger Select" brand or the "Storable Organics" brand, know that it's clean and very carefully sourced.

We source from the USA, Canada, European countries, Peru and even Thailand for some ingredients. Mexico is acceptable for some ingredients as well. But China is a big red flag. I simply can't trust that most foods, superfoods or supplements from China are going to be consistently clean and honest.

China is the kind of country where you order a sample of a raw material -- say pomegranate juice powder -- and the first batch you receive is really clean and passes all the lab tests. So you order 5000kg of the stuff, and when it arrives, it's all full of lead and pesticides.

Chinese medicine herbs from China are notoriously contaminated with lead. The same is true for green tea and many other ingredients that naturally absorb heavy metals.

All sorts of products at Whole Foods, by the way, are grown in China but certified "organic." What a joke.



Given that China has virtually no environmental enforcement whatsoever, the very idea that something grown in China can be certified "organic" is absurd. Without a clean environment, you can't produce clean food even if you follow organic growing standards.

So why do so many formulators and food companies in the USA still buy ingredients from China?
Because they're CHEAP.

Buying from China means higher profit

Here's the dirty little secret of the natural products industry... and yes, the "dirty" is quite literal in this case: Raw materials from China are cheap! Across the board, raw materials (foods, superfoods, supplements) from China are about 1/4th the cost of materials grown in North America or Europe.

This means getting your ingredients from China grants your product a lot more profit in the marketplace. For those selling through Whole Foods -- whose product shelves are littered with ingredients made in China -- this profit margin is essential to economic survival.

If you're buying a superfood powder sold at Whole Foods and paying \$50 at retail, the actual ingredient cost that goes into that superfood canister is often as little as \$5. So sourcing those materials from China is crucial to having the margins. Whole Foods might only pay your company \$22 or so for a product they sell at \$50. So your company has to buy the materials, pay for shipping, insurance, labor, packaging, formulations and everything else and still somehow make a profit to stay in business. So you source from China. You make a really nice-looking label, you get it "certified organic" with a nice USDA logo on it, and you sell it to Whole Foods which adds another layer of legitimacy to the product.

But inside the bottle, there could be mercury hiding in there. Or pharmaceutical residues. Or pesticide residues. Or just about anything, including melamine.

Now, obviously Whole Foods has a level of quality control in place, and they do require C of A's for products they carry. But **China is expert at FAKING these documents** and tricking importers, formulators and manufacturers.

In China, the idea of forging a laboratory analysis document is no big deal. Fabricating fake documents is routine. You have to understand the philosophy of these people living without any code of ethics, surviving under a police state communist regime: There are no ethics. No values. No moral compass. Forging a fake lab report is no different to them than planting seeds: it's just one more step needed to make money. There is no moral difference in their minds between telling the truth and lying. It's a "relativistic" morality philosophy.

I'm not saying all people in China are liars and deceivers. But a lot of them are. Anyone who has actually lived there for any length of time knows exactly what I'm talking about. This is a country where deceptive manufacturers take white sesame seeds and coat them in toxic black ink just to sell them as "black sesame seeds." This is a country where infant formula producers spike their formula with kidney-destroying melamine in order to make an extra five cents a pound, even while killing babies by the thousands. **THEY DON'T CARE.** China is a nation that has abandoned morality and even attacked it. This is a country where the Falun Gong group of meditation advocates and yoga practitioners is arrested and thrown in prison by an extremely oppressive, dictatorial government.

Look, cultures are different everywhere around the world. You want to hang out with really nice, intelligent and honest people? Get yourself some **Dutch friends**. They're the most upstanding, moral, educated bunch of folks you'll ever meet.

You want to hang out with highly-innovative rule followers? Get yourself some German friends. They follow the rules. And they're smart, innovative people on top of that. Brilliant minds. Some of the greatest scientists in history came out of Berlin.

You want some friends who are wildly creative? Those are Americans. Americans make the best movies, the best music (well, along with UK musicians anyway), and a lot of the best computer software on the planet. Americans are rebels. They break the rules and forge a new path. America is

a nation founded on rebellion.

But if you're looking for people who will stab you in the back in a business deal, go the China. There, you will find the most back-stabbing, dishonest cheaters and liars you'll probably ever meet, short of Nigera's "Prince Nubula" whose emails promise you'll receive a million dollars if you only send them \$5,000 first.

Why you won't hear this truth anywhere else

I know that telling the truth is unpopular and not politically correct. I'm not interested in winning a popularity contest. What I'm doing here is flat-out **telling the truth** that most other people are too afraid to say on their own: The very idea of "organic" coming out of China is a disturbing contradiction.

And organic standards have a huge gap in the fact that they don't require foods to actually be free from mercury or other contaminants. Overall, organic is a wonderful standard and I've been a strong advocate of organic, but when a "USDA organic" label is slapped on a product grown in China, you really have to scratch your head and say, "Yeah, it might be organic, but is it clean?"



It may be, but you just don't know until you test it. "Organic" grown in the USA can be *assumed* to be clean, but organic grown in China must be assumed contaminated unless proven otherwise.

Until China enforces some really strict environmental standards, "organic" from China is largely a fraud in my opinion. It's a hoax. You can lie to yourself and say, "Well it's ORGANIC so it must be clean!" but you'll be swallowing mercury, lead, pesticides and other synthetic chemicals in various amounts.

Laboratory tests confirm everything I'm telling you here. This is the dirty little secret of the organic food industry that nobody's talking about.

China's environmental nightmare

Just how polluted is China's environment? As I mentioned above, it's so bad that a Chinese environmental official was recently [offered over US\\$30,000 to take a 20-minute swim](#) in a local river. He declined the offer, as would any sane person.

Are these the same rivers that are being used to produce "organic" crops in China? You have to wonder. A river can be so inundated with smelting factory runoff and chemical pollution that even bacteria struggle to survive in it; yet this water can be legally sprayed on crops that are exported to America as "organic."

If you buy "organic" foods, superfoods or supplements grown in China, you need to know about

this.

As *The Guardian* reports:

A recent government study found that groundwater in 90% of China's cities is contaminated, most of it severely. The head of China's ministry of water resources said last year that up to 40% of the country's rivers are "seriously polluted", and an official report from last summer found that up to 200 million rural Chinese have no access to clean drinking water.

By the way, this is another story altogether, but I can tell you with 100% certainty that **China is headed for an environmental collapse**. The country has polluted itself far beyond the point of long-term sustainable life. Children are being born as mutants. Rivers support no fish life. Soils are building up obscene levels of contaminants and becoming so toxic that crop yields are affected. Cities are so filled with airborne pollution that the mere act of *breathing* causes cancer. And on top of that, China's one-child policy has resulted in **mass gendercide** where baby girls are routinely -- and yes, I mean **ROUTINELY** -- murdered, drowned, suffocated, etc., because the family wants a son, not a daughter.

In its quest for economic power, **China has poisoned itself to death**, and now it's only a matter of time before the nation collapses in a cesspool of toxicity and lies. The economic "boom" of China is nearly over, and it will be followed by an environmental implosion so huge and disgusting that the world will be absolutely horrified. Remember: China is so corrupt that it won't stop factories from openly dumping toxic waste directly into the groundwater supplies. Instead of acknowledging the source of pollution, Chinese officials simply **accept bribes and cover it up**. The corruption in China is so deeply rooted in the culture that honesty and accountability can never overcome the deception.

With some exceptions, when you buy food grown in China, you are buying food produced in the most toxic environment on planet Earth, grown by some of the most deceptive and most corrupt liars and back-stabbers on the planet, all ruled by one of the most dictatorial and tyrannical governments history has ever known. That about sums it up.



Ultimately, China has a **terminal environmental crisis** on its hands, compounded by an eternally corrupt, dictatorial communist regime government that oppresses freedom and outlaws religion while forcing families to kill their own baby girls under its population control mandates.

In summary, China suffers from:

- An environmental nightmare
- An almost complete abandonment of morals and integrity
- A deeply corrupt communist police state political system that mandates the mass murder of baby girls

Is this the vibe you really want to be putting into your body?

Photo credits:

Adam Cohn:

<http://www.flickr.com/photos/adamcohn/4267886203/>

<http://www.valuewalk.com/2013/01/china-pollution-leads-to-end-of-low-...>

<http://theboldcorsicanflame.files.wordpress.com>

http://en.wikipedia.org/wiki/File:Factory_in_China.jpg

Copyright belongs to username "High Contrast"

http://en.wikipedia.org/wiki/File:Beijing_smog_comparison_August_2005...

Articles Related to This Article:

- [Dear Mr. Adams, there are things we don't talk about in the natural products industry...](#)
- [Not even good enough for dog food: Imported food from China loaded with chemicals, dyes, pesticides and fake ingredients](#)
- [China admits to existence of 'cancer villages' sprouting up due to extreme pollution, chemical exposure](#)
- [China food scandal: Rat meat sold as lamb meat](#)
- [China hit by 'animal apocalypse' as mass die-offs continue in ultra-polluted nation](#)
- [Media Censorship at Olympics in China Mirrors FDA Censorship of Health Product Claims in America](#)

Cadmium news, articles and information:



Lipstick found to contain alarmingly high levels of aluminum, cadmium and lead

5/10/2013 - A popular cosmetic product since time immemorial, lipstick has long been used by women in many diverse cultures to accentuate their femininity and emanate their own unique expressions of elegance and style to the outside world. But a new study released by the University of California, Berkeley (UCB)...



Halloween and specialty stores nationwide may be selling lead and cadmium poisoning to your child

10/24/2012 - Sneaky importers and foreign manufacturers really do not care if they poison your child. Federal inspectors in September diverted a load of Halloween costumes from China for testing and found 11 times the acceptable level of lead, according to Mike Milne, a spokesman for U.S. Customs and Border Protection...



'Lead-free' jewelry for children found to be loaded with lead

7/24/2012 - Last week, 16 jewelry retailers and suppliers were sued by the state of California for selling jewelry with more than 1,000 times the allowable lead, as lead-free. Many of the defendants are repeat offenders, and include manufacturers, shippers, sellers, distributors, and traders that do business in...



Toxic China: Heavy metal cadmium openly dumped into rivers by mining companies

2/6/2012 - China is not exactly the poster child of environmental friendliness, and this was further exemplified this past week when authorities discovered that at least one mining company has been openly discharging toxic cadmium into two major rivers in the southern Guangxi region of the country. Reports indicate...

High levels of cadmium found in jewelry for children

5/5/2011 - Cigarette smoke isn't the only substance exposing children to toxic levels of cadmium these days. In fact, cadmium is currently used as a replacement for lead in inexpensive children's jewelry sold in the United States and a new study shows that children who wear, mouth, or accidentally swallow this...

High levels of lead and cadmium found in the drinking glasses of children

12/6/2010 - The Associated Press has recently authorized testing of various children's drinking glasses that portray superhero, movie and comic book characters. These glasses bear various brands of major corporations. The testing was carried out by ToyTestingLab of Rhode Island. This latest testing is part of ongoing...



[McDonald's recalled children's cups loaded with toxic cadmium](#)

10/9/2010 - Earlier in the summer, McDonald's recalled 12 million promotional children's "Shrek" beverage glasses due to cadmium contamination, but the company insisted at the time that the glasses were not toxic. However recent regulatory reports have revealed that the glasses were highly toxic, and that a six-year-old...



[Chemical Causes of Diabetes: Overeating Is Not the Only Problem](#)

7/25/2008 - Medical science has discovered how sensitive the insulin receptor sites are to chemical poisoning. Metals such as cadmium, mercury, arsenic, lead, fluoride and possibly aluminum may play a role in the actual destruction of beta cells through stimulating an auto-immune reaction to them after they have...

[Cadmium linked to breast cancer \(press release\)](#)

8/25/2006 - Women with the highest levels of cadmium in their urine have more than a two-fold higher risk of breast cancer than women with the lowest levels, according to a new study. However, further studies are needed to determine if these elevated levels are a cause or effect of breast cancer. Although cadmium,...

[Cadmium exposure may double breast cancer risk](#)

6/23/2006 - -- A new study appearing in the Journal of the National Cancer Institute shows that women with high levels of the heavy metal cadmium in their bodies had a more than doubled risk of breast cancer than the average person. The study compared cadmium levels in the urine of 246 breast cancer patients...

Concept-related articles:

Water supplies:

- [Toxic chemical carcinogen found in water supplies nationwide](#)
- [The Medical Mafia continues to plot mass medication via water supplies - is lithium next?](#)
- [Pharmaceuticals contaminating public water supplies; anti-seizure meds found in Lake Michigan](#)
- [Fluoride used in municipal water supplies found contaminated with arsenic](#)
- [Why the fluoridation of public water supplies is illegal](#)

Consumers:

- [The great direct-to-consumer prescription drug advertising con: how patients and doctors alike are easily influenced to demand dangerous drugs](#)

Water:

- [Pharmaceuticals in the Water: Why Medication Contamination is a Danger to Our Health and the Environment \(transcript\)](#)

Iron:

- [NaturalNews issues consumer alert about Adya Clarity, imported as battery acid and sold for internal consumption](#)

Lead:

- [8,000 Toxic Waste Sites Ignored by EPA; Massive Lead Contamination at Shooting Ranges](#)

Danger:

- [The Side-Effect Challenge: Whole Plant Medicines Vs. Drug Counterparts](#)

5:

- [Miracle Cure for Gout and Arthritis Pain? Six Cherries a Day](#)

People:

- [Interview: Greg Kunin from Ola Loa reveals the health secrets of drinkable vitamins](#)

Supplies:

- [Bosnia war survivor warns of things to come in collapse of America](#)

Cancer:

- [Cancer is not a Disease - It's a Survival Mechanism \(Book Excerpt\)](#)

Mercury:

- [Mercury Fillings Shattered! FDA, ADA Conspiracy to Poison Children with Toxic Mercury Fillings Exposed in Groundbreaking Lawsuit](#)

Heavy metals:

- [Heavy metals warning for ayurvedic herbs is a distraction from the real threats to your health](#)

Birth defects:

- [Cold Case Files - Paxil Birth Defects](#)

Family:

- [Meet your new Federal Family \(and don't use the word "government" please\) \(satire\)](#)

Toxicity:

- [The Link Between Obesity, Cancer, and Toxicity \(Part 1\)](#)

Poison:

- [The mass poisoning of humanity: an exploration of human stupidity](#)

Concepts related to Cadmium

[recycling](#) [landfills](#) [electronics](#) [cell phone](#) [water supplies](#) [consumers](#) [computers](#) [water](#) [iron](#) [lead](#) [danger](#) [5](#) [people](#) [supplies](#) [cancer](#) [mercury](#) [heavy metals](#) [birth defects](#) [family](#) [toxicity](#) [poison](#) [body](#) [birth](#) [doses](#) [study](#) [damage](#) [metals](#) [humans](#) [human](#) [researchers](#) [mice](#) [pesticides](#) [health problems](#) [good news](#) [Centers for Disease Control](#) [chemicals](#) [CDC](#) [health](#) [news](#) [disease](#) [urine](#)

View [cadmium](#) on NaturalPedia™

Google search on cadmium

See [Google search results on cadmium](#) (NaturalNews.com site)

See [Google search results on cadmium](#) (entire internet)

See [Google Scholar search results on cadmium](#) (includes scientific, academic and medical journals)

Recommended Resources

[TV.NaturalNews.com](#) is a free video website featuring thousands of videos on holistic health, nutrition, fitness, recipes, natural remedies and much more.

[CounterThink Cartoons](#) are free to view and download. They cover topics like health, environment and freedom.

[The Consumer Wellness Center](#) is a non-profit organization offering nutrition education grants to programs that help children and expectant mothers around the world.

[Food Investigations](#) is a series of mini-documentaries exposing the truth about dangerous ingredients in the food supply.

[Webseed.com](#) offers alternative health programs, documentaries and more.

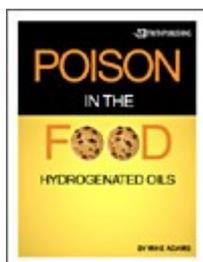
[The Honest Food Guide](#) is a free, downloadable public health and nutrition chart that dares to tell the truth about what foods we should really be eating.

[HealingFoodReference.com](#) offers a free online reference database of healing foods, phytonutrients and plant-based medicines that prevent or treat diseases and health conditions.

[HerbReference.com](#) is a free, online reference library that lists medicinal herbs and their health benefits.

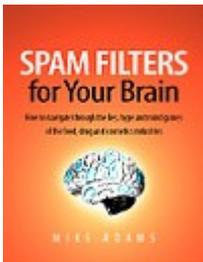
[NutrientReference.com](#) is a free online reference database of phytonutrients (natural medicines found in foods) and their health benefits. Lists diseases, foods, herbs and more.

Related books:



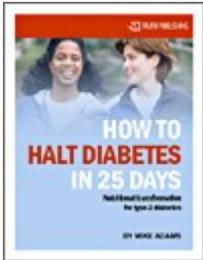
Poison in the Food: Hydrogenated Oils

Exposes the horrifying truth about hydrogenated oils and the diseases it causes: birth defects, heart disease, cancer, diabetes and more.



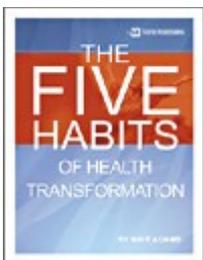
Spam Filters For Your Brain

Your brain is being spammed by 3,000 ads and commercial messages per day. Now you can actually filter out annoying, manipulative messages with the revolutionary brain defense technology revealed in this guide.



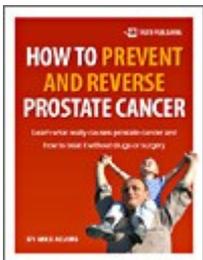
How to Halt Diabetes In 25 Days

A down-to-earth guide on halting type-2 diabetes using natural methods: nutrition, food choice, medicinal herbs and more. Provides a 25-day plan for radically altering your body physiology to literally reverse type-2 diabetes.



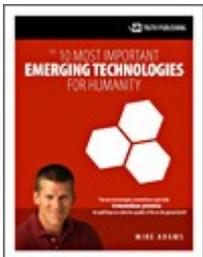
The Five Habits of Health Transformation

Explores the five most effective, yet effortless strategies for transforming human health. Written for busy people and based on research involving 763 participants, this book reveals which health strategies deliver the most results with the least investment in time, money or effort.



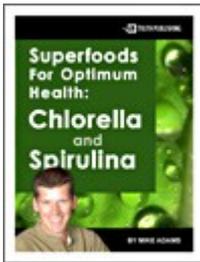
How to Prevent and Reverse Prostate Cancer

Discover the little-known natural health secrets that can prevent and even *reverse* prostate cancer. This book shows you how to reduce your risk of prostate cancer to near zero using potent, clinically proven health strategies that far surpass anything offered by organized medicine.



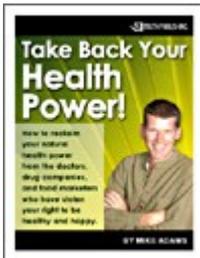
The Ten Most Important Emerging Technologies For Humanity

In this book, author Mike Adams takes you on a fascinating tour that ventures far beyond conventional science and dares to suggest that as a civilization, we are spending too much time, money and effort on technologies that really don't help us while ignoring the technologies that can really make a difference in our lives.



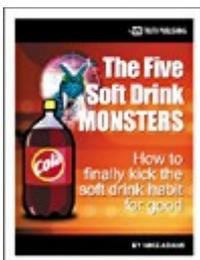
Superfoods For Optimum Health: Chlorella and Spirulina

In this free online book, you'll get the astounding truth on how these two superfoods are far more than just "supplements" like vitamins and minerals: they are disease preventing foods from nature that can actually help conquer cancer, diabetes, heart disease, clinical depression, and much more.



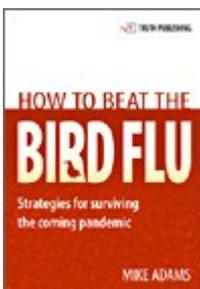
Take Back Your Health Power! How to reclaim your natural health power from the doctors, drug companies and food marketers who have stolen your right to be healthy

This courageous report tells you how to take back your power from those who have been exploiting your misfortune for their profit. Learn how to put yourself in control and transform your health outcome from this day forward.



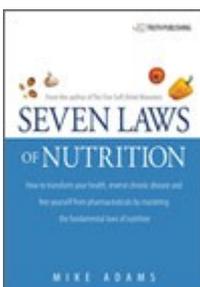
The Five Soft Drink Monsters: how to kick the soft drink addiction for good

This downloadable ebooks reveals how to easily and permanently break the soft drink habit for good. This guide will show you, in clear understandable terms, how to recognize each of the five addictive elements of soft drinks -- and then beat them with a clever strategy that's already worked for thousands.



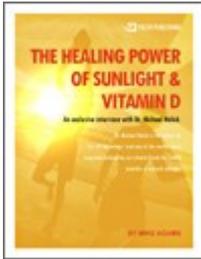
How to Beat the Bird Flu: how to protect yourself from the coming bird flu pandemic

This downloadable ebook arms you with the information you need to protect you and your family from the possible bird flu pandemic the World Health Organization is warning about.



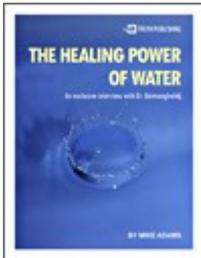
The Seven Laws of Nutrition

Learn how to transform your health, reverse chronic disease and free yourself from pharmaceuticals by mastering the fundamental laws of nutrition.



The Healing Power of Sunlight and Vitamin D: an exclusive interview with Dr. Michael Holick

In this interview, Dr. Holick reveals fascinating facts on how vitamin D is created and used in the human body to ward off chronic diseases like cancer, osteoporosis, mental disorders and more.



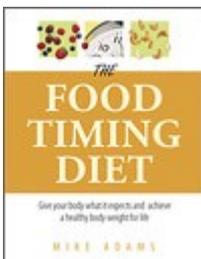
The Healing Power of Water: an exclusive interview with Dr. Batmanghelidj

This exclusive interview with Dr. B reveals how Dr. B. discovered the healing ability of water and pioneered the emerging field of hydro-health. This is a must read report that will forever change the way you think about H2O.



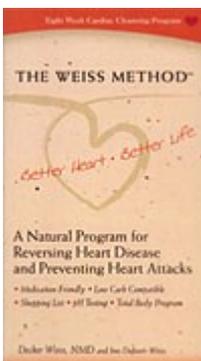
Grocery Warning

How to recognize and avoid the common foods (and food ingredients) that cause disease. Names all the exact ingredients that directly cause heart disease, cancer, diabetes, obesity, depression, osteoporosis, arthritis, high blood pressure, ADHD, behavioral disorders, mood swings and many more.



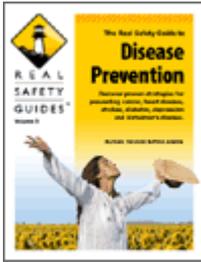
The Food Timing Diet

Revealed: The Mike Adams secret to shedding body fat, experiencing phenomenal mental and physical energy and eliminating blood sugar swings -- all while eating enormous quantities of health-enhancing (and delicious!) food. Learn why it's not WHAT you eat as much as WHEN you eat!



The Weiss Method For Better Heart Health

Radically improve your heart health in just eight weeks! Discover the natural way to prevent and reverse heart disease with Decker Weiss, NMD, a leading authority on non-invasive heart disease treatments that combine the best of conventional and natural treatments.



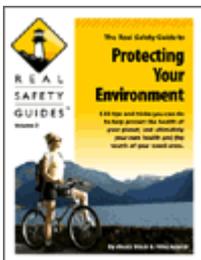
The Real Safety Guide to Disease Prevention

More than 80% of all chronic disease is preventable, but only if you know how. Learn the proven, yet simple prevention strategies for cancer, heart disease, diabetes, depression, Alzheimer's and many other degenerative health conditions.



The Real Safety Guide to Beating Cybercrime

Learn how to protect yourself, your children and your finances from cybercrime in this sought-after safety guide that covers phishing, online identity theft, auction fraud, spyware, cyberstalking and much more.



The Real Safety Guide to Protecting Your Environment

Teaches you 120 practical, Earth-saving tips and strategies for energy conservation, detoxifying your home and work environments, clean air, clean water, recycling and much more. Instant download and hardcopy editions available. 50% of revenues donated to pro-environment non-profits.

SCIENCE.NaturalNews.com
Conduct powerful scientific research in mere seconds for your book, blog, website article or news report

**BROWSE STUDIES
BY CATEGORY**
and see related articles

- [Foods and Ingredients](#)
- [Superfoods](#)
- [Food Additives](#)
- [Sweeteners](#)
- [Nutritional Supplements](#)
- [Individual Nutrients](#)
- [Vitamins](#)
- [Minerals](#)
- [Amino Acids](#)
- [Nutrition Concepts](#)
- [Diets](#)
- [Plants, Herbs & Spices](#)
- [Phytochemicals](#)
- [Chemicals](#)

- [Harmful Toxins](#)
- [Heavy Metals](#)
- [Drugs](#)
- [Pharmacological Actions](#)
- [Adverse Reactions](#)
- [Health Concerns](#)
- [Healing Therapies](#)
- [Harmful Therapies](#)
- [Body Organs and Systems](#)

Scientific studies on Cadmium

Last updated: July 25, 2013

[Effects of ascorbic acid on cadmium-induced oxidative stress and performance of broilers.](#)

Biological trace element research

[Cadmium in the shore crab *Carcinus maenas*: seasonal variation in cadmium content and uptake and elimination of cadmium after administration via food.](#)

Aquatic toxicology (Amsterdam, Netherlands)

[Identification of three relationships linking cadmium accumulation to cadmium tolerance and zinc and citrate accumulation in lettuce.](#)

Journal of plant physiology

[\[2000 Chinese total diet study--the dietary lead and cadmium intakes\].](#)

Wei sheng yan jiu = Journal of hygiene research

[Interactive studies of potassium and copper with cadmium on seed germination and early seedling growth in maize \(*Zea mays* L.\).](#)

Journal of environmental biology / Academy of Environmental Biology, India

[Cadmium-induced apoptosis in murine macrophages is antagonized by antioxidants and caspase inhibitors.](#)

Journal of toxicology and environmental health. Part A

[The effects of cadmium on VEGF-mediated angiogenesis in HUVECs.](#)

Journal of applied toxicology : JAT

[\[Relationship between plasma anti-metallothionein antibody and renal dysfunction in cadmium exposed workers\].](#)

Zhonghua lao dong wei sheng zhi ye bing za zhi = Zhonghua laodong weisheng zhiyebing zazhi = Chinese journal of industrial hygiene and occupational diseases

[Cadmium-exposed population in Mae Sot District, Tak Province: 1. Prevalence of high urinary cadmium levels in the adults.](#)

Journal of the Medical Association of Thailand = Chotmai het thangphaet

[Impact of iron status on cadmium uptake in suckling piglets.](#)

Toxicology

[Cadmium and renal cancer.](#)

Toxicology and applied pharmacology

[Role of +\(-\)catechin against cadmium toxicity in the rat testes.](#)

Scandinavian journal of urology and nephrology

[Acquired tolerance in cadmium-adapted lung epithelial cells: roles of the c-Jun N-terminal kinase signaling pathway and basal level of metallothionein.](#)

Toxicology and applied pharmacology

[Population toxicokinetic modeling of cadmium for health risk assessment.](#)

Environmental health perspectives

[Cadmium toxicity and uptake by mats of the freshwater diatom: *Navicula pelliculosa* \(Bréb\) Hilse.](#)

Archives of environmental contamination and toxicology

[Effect of cadmium on gonadal development in freshwater turtle \(*Trachemys scripta*, *Chrysemys picta*\) embryos.](#)

Journal of environmental science and health. Part A, Toxic/hazardous substances & environmental engineering

[Assessing the importance of dietborne cadmium and particle characteristics on bioavailability and bioaccumulation in the nematode *Caenorhabditis elegans*.](#)

Environmental toxicology and chemistry / SETAC

[In vivo and in vitro cadmium accumulation during the moult cycle of the male shore crab *Carcinus maenas*--interaction with calcium metabolism.](#)

Aquatic toxicology (Amsterdam, Netherlands)

[\[Effect of cadmium on estrogen receptor from rat uterus in vitro.\].](#)

Zhonghua lao dong wei sheng zhi ye bing za zhi = Zhonghua laodong weisheng zhiyebing zazhi = Chinese journal of industrial hygiene and occupational diseases

[Cadmium uptake and accumulation by the decapod crustacean *Penaeus indicus*.](#)

Marine environmental research

[\[The effects of cadmium on the levels of insulin in smelters\].](#)

Zhonghua lao dong wei sheng zhi ye bing za zhi = Zhonghua laodong weisheng zhiyebing zazhi = Chinese journal of industrial hygiene and occupational diseases

[Cadmium induces mitochondria-dependent apoptosis of normal human hepatocytes.](#)

Cell biology and toxicology

[Medium composition affects the degree and pattern of cadmium inhibition of naphthalene biodegradation.](#)

Chemosphere

[Role of the yeast ABC transporter Yor1p in cadmium detoxification.](#)

Biochimie

[Urinary cadmium and mammographic density in premenopausal women.](#)

Breast cancer research and treatment

[Taurine plays a beneficial role against cadmium-induced oxidative renal dysfunction.](#)

Amino acids

[Assessment of sediment/water contamination by in vivo transplantation of the cockles *Cerastoderma glaucum* from a non contaminated to a contaminated area by cadmium.](#)

Ecotoxicology (London, England)

[Cadmium availability to freshwater mussel \(*Unio tumidus*\) in the presence of organic matter and](#)

[UV radiation.](#)

Journal of environmental science and health. Part A, Toxic/hazardous substances & environmental engineering

[Protective role of selenium against renal toxicity induced by cadmium in rats.](#)

Toxicology

[Cadmium, osteoporosis and calcium metabolism.](#)

Biometals : an international journal on the role of metal ions in biology, biochemistry, and medicine

[In vitro biochemical evaluation of cadmium tolerance mechanism in callus and seedlings of Brassica juncea.](#)

Protoplasma

[Effects of cadmium on the expression of placental lactogens and Pit-1 genes in the rat placental trophoblast cells.](#)

Molecular and cellular endocrinology

[The possible role of cytokeratin 8 in cadmium-induced adaptation and carcinogenesis.](#)

Cancer research

[The Brassica juncea BjCdR15, an ortholog of Arabidopsis TGA3, is a regulator of cadmium uptake, transport and accumulation in shoots and confers cadmium tolerance in transgenic plants.](#)

The New phytologist

[Low level cadmium exposure, renal and bone effects--the OSCAR study.](#)

Biometals : an international journal on the role of metal ions in biology, biochemistry, and medicine

[\[Excretion of urinary metallothionein and osteal damage induced by cadmium in an environmentally cadmium exposed population\].](#)

Wei sheng yan jiu = Journal of hygiene research

[Cadmium-induced disturbances in lactating mammary glands of mice.](#)

Toxicology letters

[Demographic responses to multigeneration cadmium exposure in two strains of the freshwater gastropod, Biomphalaria glabrata.](#)

Archives of environmental contamination and toxicology

[The influence of iron stores on cadmium body burden in a Thai population.](#)

Environmental geochemistry and health

[Next Page »](#)



SCIENCE.NaturalNews.com
Conduct powerful scientific research in mere seconds for your book, blog, website article or news report

**BROWSE STUDIES
BY CATEGORY**
and see related articles

- [Foods and Ingredients](#)
- [Superfoods](#)
- [Food Additives](#)

- [Sweeteners](#)
- [Nutritional Supplements](#)
- [Individual Nutrients](#)
- [Vitamins](#)
- [Minerals](#)
- [Amino Acids](#)
- [Nutrition Concepts](#)
- [Diets](#)
- [Plants, Herbs & Spices](#)
- [Phytochemicals](#)
- [Chemicals](#)
- [Harmful Toxins](#)
- [Heavy Metals](#)
- [Drugs](#)
- [Pharmacological Actions](#)
- [Adverse Reactions](#)
- [Health Concerns](#)
- [Healing Therapies](#)
- [Harmful Therapies](#)
- [Body Organs and Systems](#)

Scientific studies on spirulina

Last updated: July 25, 2013

[Efficacy of spirulina extract plus zinc in patients of chronic arsenic poisoning: a randomized placebo-controlled study.](#)

Clinical toxicology (Philadelphia, Pa.)

[Spirulina attenuates cyclosporine-induced nephrotoxicity in rats.](#)

Journal of applied toxicology : JAT

[Potential complementarity of high-flavanol cocoa powder and spirulina for health protection.](#)

Medical hypotheses

[Hypolipidemic, antioxidant, and antiinflammatory activities of microalgae Spirulina.](#)

Cardiovascular therapeutics

[A randomized double-blind, placebo-controlled study to establish the effects of spirulina in elderly Koreans.](#)

Annals of nutrition & metabolism

[Antioxidant and antiproliferative activities of Spirulina and Chlorella water extracts.](#)

Journal of agricultural and food chemistry

[Protective effects of Spirulina maxima on hyperlipidemia and oxidative-stress induced by lead acetate in the liver and kidney.](#)

Lipids in health and disease

[Enhancement of antitumor natural killer cell activation by orally administered Spirulina extract in mice.](#)

Cancer science

[Effects of a Spirulina-based dietary supplement on cytokine production from allergic rhinitis](#)

[patients.](#)

Journal of medicinal food

[A randomized study to establish the effects of spirulina in type 2 diabetes mellitus patients.](#)

Nutrition research and practice

[Ergogenic and antioxidant effects of spirulina supplementation in humans.](#)

Medicine and science in sports and exercise

[Protective effect of aqueous extract from Spirulina platensis against cell death induced by free radicals.](#)

BMC complementary and alternative medicine

[Credentials of Spirulina diet on stability and flux related properties on the biomineralization process during oxalate mediated renal calcification in rats.](#)

Clinical nutrition (Edinburgh, Scotland)

[Effect of spirulina on the secretion of cytokines from peripheral blood mononuclear cells.](#)

Journal of medicinal food

[Spirulina promotes stem cell genesis and protects against LPS induced declines in neural stem cell proliferation.](#)

PLoS one

[The effects of Spirulina on anemia and immune function in senior citizens.](#)

Cellular & molecular immunology

[Comparison between the effects of alcohol and hexane extract of spirulina in arsenic removal from isolated tissues.](#)

Mymensingh medical journal : MMJ

[Protection against cisplatin-induced nephrotoxicity by Spirulina in rats.](#)

Cancer chemotherapy and pharmacology

[Revealing the complementation of ferredoxin by cytochrome b \(5\) in the Spirulina- \(6\)-desaturation reaction by N-terminal fusion and co-expression of the fungal-cytochrome b \(5\) domain and Spirulina- \(6\)-acyl-lipid desaturase.](#)

Applied microbiology and biotechnology

[Spirulina protects against rosiglitazone induced osteoporosis in insulin resistance rats.](#)

Diabetes research and clinical practice

[Spirulina platensis protects against gentamicin-induced nephrotoxicity in rats.](#)

Phytotherapy research : PTR

[Vitamin A equivalence of spirulina beta-carotene in Chinese adults as assessed by using a stable-isotope reference method.](#)

The American journal of clinical nutrition

[Spirulina did not ameliorate idiopathic chronic fatigue in four N-of-1 randomized controlled trials.](#)

Phytotherapy research : PTR

[Effects of spirulina, a blue-green alga, on bone metabolism in ovariectomized rats and hindlimb-unloaded mice.](#)

Bioscience, biotechnology, and biochemistry

[Biofixation of carbon dioxide by Spirulina sp. and Scenedesmus obliquus cultivated in a three-stage serial tubular photobioreactor.](#)

Journal of biotechnology

[Evaluation of protective efficacy of Spirulina fusiformis against mercury induced nephrotoxicity in Swiss albino mice.](#)

Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association

[Effect of spirulina maxima on the haloperidol induced tardive dyskinesia and oxidative stress in rats.](#)

Journal of neural transmission (Vienna, Austria : 1996)

[Dietary supplementation with blueberries, spinach, or spirulina reduces ischemic brain damage.](#)

Experimental neurology

[Renoprotective effect of Spirulina fusiformis on cisplatin-induced oxidative stress and renal dysfunction in rats.](#)

Renal failure

[Cloning and characterization of hoxH genes from Arthrospira and Spirulina and application in phylogenetic study.](#)

Marine biotechnology (New York, N.Y.)

[Effect of hexane extract of spirulina in the removal of arsenic from isolated liver tissues of rat.](#)

Mymensingh medical journal : MMJ

[Effects of dietary Spirulina on vascular reactivity.](#)

Journal of medicinal food

[The effects of spirulina on allergic rhinitis.](#)

European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery

[\[Use of spirulina supplement for nutritional management of HIV-infected patients: study in Bangui, Central African Republic\].](#)

Médecine tropicale : revue du Corps de santé colonial

[Spirulina prevents atherosclerosis by reducing hypercholesterolemia in rabbits fed a high-cholesterol diet.](#)

Journal of nutritional science and vitaminology

[Spirulina \(Arthrospira\) Protects Against Cadmium-Induced Teratogenic Damage in Mice.](#)

Journal of medicinal food

[Protective effect of supplemental low intensity white light on ultraviolet-B exposure-induced impairment in cyanobacterium Spirulina platensis: formation of air vacuoles as a possible protective measure.](#)

Photosynthesis research

[\[Effect of iodine and cobalt salts on content of biologically active substances in spirulina biomass\].](#)

Ukrainskii biokhimicheskii zhurnal

[Effect of dietary Spirulina on reduction of copper toxicity and improvement of growth, blood](#)

[parameters and phosphatases activities in carp, *Cirrhinus mrigala* \(Hamilton, 1822\).](#)
Indian journal of experimental biology

[Next Page »](#)

ARTICLES RELATED

- [High levels of lead and cadmium found in the drinking glasses of children](#)
- [High levels of cadmium found in jewelry for children](#)
- [McDonald's recalled children's cups loaded with toxic cadmium](#)
- [Halloween and specialty stores nationwide may be selling lead and cadmium poisoning to your child](#)
- [Toxic China: Heavy metal cadmium openly dumped into rivers by mining companies](#)
- [Cadmium exposure may double breast cancer risk](#)



High levels of lead and cadmium found in the drinking glasses of children

Monday, December 06, 2010 by: Amelia Bentrup

Tags: [drinking glasses](#), [lead](#), [health news](#)

(NaturalNews) The Associated Press has recently authorized testing of various children's drinking glasses that portray superhero, movie and comic book characters. These glasses bear various brands of major corporations. The testing was carried out by ToyTestingLab of Rhode Island. This latest testing is part of ongoing research into levels of lead and cadmium found in children's products. The testing found unsafe levels (up to 1,000 times the federally allowed limit) of lead in drinking glasses that portray movie and book characters. Other testing, the purpose of which was to determine the levels of heavy metal shed during regular use, found that lower but still detectable levels of lead and cadmium are shed. The AP purchased and tested both new drinking glasses and used ones from online auctions, flea markets and thrift stores.

The glasses were first tested by the Associated Press. They used an Olympus Innov-X gun to shoot X-rays into the glasses and estimate the amount of lead and cadmium present. They were then tested by ToyTestingLab for the amount of lead worn off during regular handling. Each glass was stroked 30 times with a wet wipe and the wet wipe was then tested for lead and cadmium. Although the wipe test showed lower levels of lead being removed from the glasses, there is concern that repeated washing, scouring and dishwasher use could quicken the break down of materials. Further testing included wipes wet with "artificial sweat," and under those testing conditions the amount of

[lead](#) and cadmium coming off the glasses was up to four times higher than with wipes containing only water.

In 2008, Congress passed a law limiting the amount of lead in children's products to .03 percent. The tested [drinking glasses](#) were found to contain much higher levels than that. Ironically enough, manufacturers have been substituting cadmium for lead in their products. There is no federal limit on cadmium in children's products, although [cadmium](#) is a toxic, heavy metal, similar to lead. Cadmium is used to make the bright red color, found on many drinking glass decorations.

Lead is especially dangerous to children because it can cause problems with growth and development. None of the [drinking](#) glasses tested contained enough lead to cause immediate problems; however, there is a risk of long-term damage occurring from repeated exposure. Complications from lead exposure include behavior and attention problems, decreased IQ, difficulty in school, decreased growth, hearing problems and kidney issues. Other possible symptoms include headaches, anemia, aggressive behavior, constipation, difficulty sleeping, headaches and loss of previous developmental skills.

Dr. Paul Mushak, a nationally recognized toxicologist who had been an adviser to the CPSC, used computer modulated testing to determine that if half of what came off the glasses was ingested, it could raise a 5- to 6-year-old's blood lead levels an average of 4% and as high as 11%. Mushak was concerned not so much by the levels themselves, but by the fact that lead and cadmium may be stored in bones and released later in life, for example when a woman hits menopause.

Cadmium is listed as number seven on the Center for Disease Control's (CDC's) 275 most hazardous substances list. It is a carcinogen that harms the kidneys and bones and interferes with normal mental development. Earlier this fall, the CPSC recommended increasing cadmium level guidelines. The previous guidelines listed the safe levels of cadmium exposure at .03mg/kg of body weight per day. They suggest raising that to .01 mg/kg of body weight per day. It is important to note that these levels are guidelines and not federally mandated standards.

Sources:

<http://www.npr.org/2010/11/22/131506238/cadmium-lead-found-in-drinkin...>

<http://www.nlm.nih.gov/medlineplus/ency/article/002473.htm>

<http://www.newsinferno.com/defective-products/leadcadmium-found-in-dr...>

http://www.acsh.org/factsfears/newsid.1970/news_detail.asp

http://www.huffingtonpost.com/2010/10/20/shrek-recall-cadmium-leve_n_...

About the author

Amelia Bentrup is the owner and editor of <http://www.my-home-remedies.com> a well-researched collection of natural home remedies. Discover natural cures for a variety of ailments and find specific information and safety guidelines for various herbs, vitamins, minerals and essential oils.

Articles Related to This Article:

- [8,000 Toxic Waste Sites Ignored by EPA; Massive Lead Contamination at Shooting Ranges](#)

- [Dangerous levels of lead found in many garden hoses](#)
- [20-Year Study: Lead Linked to Violent Crime and Shrinks the Brain](#)
- [If you want to reduce your risk of heart attack and stroke - Get the lead out](#)
- [Got gout? Get the lead out](#)
- [Exclusive: Scientific paper that announced high levels of lead in rice suddenly retracted by its author](#)



High levels of cadmium found in jewelry for children

Thursday, May 05, 2011 by: Megan Heimer J.D.

Tags: [cadmium](#), [jewelry](#), [health news](#)

(NaturalNews) Cigarette smoke isn't the only substance exposing children to toxic levels of cadmium these days. In fact, cadmium is currently used as a replacement for lead in inexpensive children's jewelry sold in the United States and a new study shows that children who wear, mouth, or accidentally swallow this type of jewelry are exposed to potentially dangerous amounts.

The study, soon to be published by the National Institute of Environmental Health Sciences, tested 612 samples of imported jewelry, all under \$12 and purchased in the United States since 2006. Samples were tested in a saline solution to approximate how much cadmium is released upon mouthing the item, while other samples were placed in a hydrochloric acid solution to simulate the conditions of the stomach upon swallowing. The results showed that substantial amounts of cadmium were released when mouthed or swallowed. In fact, the amount of cadmium leached by many jewelry items exceeded the US Consumer and Product Safety Commission's (CPSC) proposed limits by more than 100 times.

The high toxicity of cadmium is well-known and it is listed as a human carcinogen by the International Agency for Research on Cancer and National Toxicology Program. Furthermore, cadmium is a metal that accumulates in various parts of the body and exposure has been linked to a wide variety of health issues including pancreatic, lung, prostate, and bladder cancers, gene mutation, kidney disease, bronchitis, fragile bones, headaches, convulsions, and death.

Between the years 2000 and 2005 more than 20,000 emergency room visits were attributed to

children, largely under the age of seven, who swallowed inexpensive jewelry. In 2010 [cadmium](#) became a public concern when an investigation showed that several children's jewelry items from popular large chain stores contained as much as 91 percent of this toxic metal by weight. Five recalls of cadmium containing [jewelry](#) were issued by the CPSC; but, despite the vast amount of research on the dangers and high toxicity of cadmium, the U.S. has no regulations regarding the cadmium content of children's jewelry. Thus, parents are urged to take away all inexpensive jewelry from their children because of the potential [health](#) risks.

References

Weidenhamer JD, Miller J, Guinn D, Pearson J, 2011 Bioavailability of Cadmium in Inexpensive Jewelry. Environ Health Perspect doi:10.1289/ehp.1003011
<http://ehp03.niehs.nih.gov/article/fetchArticle.action?articleURI=inf...>

Cancer Epidemiology, Biomarkers and Prevention
<http://cebp.aacrjournals.org/content/9/2/139.full.pdf+html>

Molecular and Cellular Mechanisms of Cadmium Carcinogenesis. Toxicology, Volume 192, Issues 2-3, 5 November 2003, Pages 95-117

National Library of Medicine - Tox Town
http://toxtown.nlm.nih.gov/text_version/chemicals.php?id=63

http://www.msnbc.msn.com/id/37235693/ns/health-kids_and_parenting/

About the author

Megan Heimer is a lawyer, natural health therapist, registered yoga teacher, has a bachelor's degree in political science, and will soon complete her doctorate in naturopathic medicine. She has extensive knowledge in holistic nutrition, natural health, and alternative medicine. Megan is currently conducting research on various natural health topics, writing a book, and counsels clients in natural healing all over the world.

Check out her blogs at: www.megansmind-holisticwellness.blogspot.com and measrevolution.wordpress.com

Articles Related to This Article:

- ['Lead-free' jewelry for children found to be loaded with lead](#)
- [Survival guide - Buy and sell scrap gold jewelry for investment and quick cash](#)
- [New Book Reveals Why Your Dental Fillings, Earrings, Wristwatch and Jewelry May be the Hidden Cause Behind Chronic Pain and Muscle Weakness](#)
- [Lead is in Everyday Products](#)
- [High levels of lead and cadmium found in the drinking glasses of children](#)
- [McDonald's recalled children's cups loaded with toxic cadmium](#)



McDonald's recalled children's cups loaded with toxic cadmium

Saturday, October 09, 2010 by: Ethan A. Huff, staff writer

Tags: [McDonald's](#), [cadmium](#), [health news](#)

(NaturalNews) Earlier in the summer, McDonald's recalled 12 million promotional children's "Shrek" beverage glasses due to cadmium contamination, but the company insisted at the time that the glasses were not toxic. However recent regulatory reports have revealed that the glasses were highly toxic, and that a six-year-old who simply touches one eight times in a day is exposed to hazardous levels of the carcinogen.

Though they would not disclose actual levels of cadmium, regulators said that levels were high enough to warrant concern. And since cadmium is known to damage kidneys, lungs and bones -- especially in children -- the threat of even minimal exposure is problematic. Cadmium can also be found in paints, fertilizers, batteries and cigarettes, and is also known to cause cancer.

You can read more about cadmium by checking out the NaturalNews cadmium page at: <http://www.naturalnews.com/cadmium.html>

The only consumer products that currently have cadmium standards are children's toys, but glassware like the Shrek cups is exempt, as is children's jewelry which is often highly contaminated with cadmium and other heavy metals. Maximum cadmium levels in toys is currently 75 soluble parts per million, but neither the cups nor the jewelry are considered "toys".

The agency responsible for the testing is currently in the process of establishing better guidelines for cadmium in light of the recall. They say that upper thresholds of safety can be established for the toxin, but others insist that since [cadmium](#) is a heavy metal, it will build up in the body over time and cause long-term damage even at minute exposure levels.

"Making sure that children don't take in excess cadmium beyond the diet is a wise thing to do," explained Jeffrey Weidenhamer, a professor of chemistry at Ashland University in Ohio, in reference to cadmium that is leached from soil into leafy green vegetables.

Sources for this story include:

<http://www.chicagotribune.com/health/sc-biz-1008-cadmium-20101007,0,1...>

Related Articles:

- [High levels of lead and cadmium found in the drinking glasses of children](#)
- [High levels of cadmium found in jewelry for children](#)

- [Halloween and specialty stores nationwide may be selling lead and cadmium poisoning to your child](#)
- [Toxic China: Heavy metal cadmium openly dumped into rivers by mining companies](#)
- [Cadmium exposure may double breast cancer risk](#)
- [Cadmium linked to breast cancer \(press release\)](#)



Halloween and specialty stores nationwide may be selling lead and cadmium poisoning to your child

Wednesday, October 24, 2012 by: Craig Stellpflug

Tags: [Halloween](#), [cadmium](#), [lead poisoning](#)

(NaturalNews) Sneaky importers and foreign manufacturers really do not care if they poison your child. Federal inspectors in September diverted a load of Halloween costumes from China for testing and found 11 times the acceptable level of lead, according to Mike Milne, a spokesman for U.S. Customs and Border Protection in Seattle. This shipment was singled out because of a past company violation. How many times does an unscrupulous company get away with poisoning a child before being caught?

Just a month ago, 6,970 Captain Cutlass Toy Pirate Pistols were confiscated with a similar problem. The offending company was Ko Lik Manufacturing Ltd. of Hong Kong, China. Of course, Dillon Importing Company is offering a voluntary recall and full refund. But is it too late? Has your child already chewed on this plastic toy? How about lead contaminated toy cars manufactured in China and sold by LM Import & Export, Inc? These little hazards were sold exclusively by Mega Wholesale for several months before being found out and recalled. Then there was the lead laced China-made Toy Story 3 Bowling Game sold at Walmart for about a month before being recalled.

Reports like these that go on for pages and pages can be found at the U.S. Consumer Product Safety Commission. (www.cpsc.gov)

China is not the only heartless manufacturing country after your money

Jeff Gearhart, campaign director for the *Ecology Center*, emphasizes that Chinese toys are not the only culprits. The center's investigations have shown lead-containing [toys](#) originate from numerous countries other than China, including Canada, Mexico, Thailand, and even the US. "There's nothing pristine about the U.S.'s regulatory structure or its production practices that would prevent toxic toys from being produced here," Gearhart says.

The *Ecology Center* published an analysis of chemical hazards in toys in 2007 on the Consumer Action Guide to Toxic Chemicals in Toys website (www.healthytoys.org), and found lead in 35 percent of 1,200 children's products tested. Other toys also contained trace amounts of arsenic and/or cadmium.

Cadmium - The new lead

Federal regulators failed to pursue recalls after they found cadmium-tainted jewelry on store shelves despite their vow to keep the toxic trinkets out of children's hands. An *Associated Press* investigation shows that over two years after they revealed that manufacturers were substituting [cadmium](#) for banned lead, the Consumer Product Safety Commission (CPSC) continues to be unreasonably inactive. In the recent nationwide "children's jewelry sweep" the CPSC conducted testing in stores to show that six different items on shelves - including one referred to as a "baby bracelet" - were hazardous by the agency's guidelines. Yet the agency did nothing to pursue recalls or warn the public about the items. The CPSC allowed Big Business Wal-Mart Stores Inc. and Meijer to take down contaminated jewelry without issuing a recall on previously purchased items.

Their piss-poor "excuse?" It wasn't that the CPSC argued that high-cadmium items were safe in the hands of kids - because they are not, but because the items did not meet the exact legal definition of "children's product." Really? A "baby bracelet" is not a child's item?

Who is responsible for your child's health?

Certainly not the CPSC that has just 19 agents to police 15 out of some 300 ports of entry in the U.S. *You, the parent*, are solely responsible to ensure that your child is safe from the deleterious effects of poisonous metals which can cause vomiting, coma, convulsions, learning difficulties and attention deficits.

Don't wait on a government funded agency to tell you, after-the-fact, that you have bought a neurotoxic toy. There are many systems out there that will help you identify potential toxic metals in toys and other products within seconds. Take action to protect your child's health. Is it not worth it?

Sources for this article

<http://www.cpsc.gov/cpsc/pub/prerel/prhtml12/12285.html>

<http://www.dhs.wisconsin.gov>

http://www.omahahealthykids.org/leadfacts_toys.html

<http://www.healthystuff.org/release.121311.maine.php>

<http://www.daily-chronicle.com>

About the author:

Craig Stellflug is a Cancer Nutrition Specialist, Lifestyle Coach and Neuro Development Consultant at Healing Pathways Medical Clinic, Scottsdale, AZ.

<http://www.healingpathwayscancerclinic.com/> With 17 years of clinical experience working with both brain disorders and cancer, Craig has seen first-hand the devastating effects of vaccines and pharmaceuticals on the human body and has come to the conclusion that a natural lifestyle and natural remedies are the true answers to health and vibrant living. You can find his daily health blog at www.blog.realhealthtalk.com and his articles and radio show archives at www.realhealthtalk.com

Related Articles:

- [8,000 Toxic Waste Sites Ignored by EPA; Massive Lead Contamination at Shooting Ranges](#)
- [Dangerous levels of lead found in many garden hoses](#)
- [If you want to reduce your risk of heart attack and stroke - Get the lead out](#)

- [20-Year Study: Lead Linked to Violent Crime and Shrinks the Brain](#)
- [Got gout? Get the lead out](#)
- [FDA Finds Lead in All Lipsticks Tested](#)



Toxic China: Heavy metal cadmium openly dumped into rivers by mining companies

Monday, February 06, 2012 by: Ethan A. Huff, staff writer

Tags: [China](#), [cadmium](#), [mining companies](#)

(NaturalNews) China is not exactly the poster child of environmental friendliness, and this was further exemplified this past week when authorities discovered that at least one mining company has been openly discharging toxic cadmium into two major rivers in the southern Guangxi region of the country. Reports indicate that long stretches of the Longjiang River were found to contain high levels of the cancer-causing toxin, which prompted officials to warn nearly three million people to stop drinking water directly from the river.

The contamination was first discovered after local residents began to observe mass die-offs of fish in some sections of the river beginning around mid-January. Upon investigation, it was revealed that both the Guangxi Jinhe Mining Co. and the Jinchengjiang Hongquan Lithopone Material Co. had been openly discharging cadmium into the river, the water of which is used by millions of people as drinking water.

Elevated levels of cadmium were reportedly detected as far south as Liuzhou, which is more than 130 kilometers, or more than 80 miles, downstream from the Guangxi Jinhe Mining Co. facility. However, Gan Jinglin, Liuzhou's environmental chief, reportedly announced that the water "met national standards" and was not unsafe to drink.

Meanwhile, the regional government fired seven officials in Hechi, an area in Guangxi where cadmium was discovered, and punished two others for failing to properly protect local residents. Many area residents have reported illness symptoms following the spill, and local fisherman have suffered drastic economic setbacks as a result of the tainted water.

But at least the Chinese government took action to discipline and fire those that allowed such a tragedy to take place under their watch, which is a lot more than can be said for the many similar environmental disasters that have taken place in the U.S. Pharmaceutical companies, for instance, have been caught openly dumping drug pollutants into American rivers and waterways, and as far as we know, no drug company executives or politicians have been reprimanded or fired for allowing or contributing to such environmental abuse (http://www.naturalnews.com/029314_waterways_contamination.html).

Similarly, natural gas mining companies reportedly openly dump their toxic waste into waterways without consequence as well. A report compiled last year found that nearly a million-and-a-half

barrels of toxic mining waste go unaccounted for in the U.S. every single year, and little to nothing is being done to fix this problem (http://www.naturalnews.com/030941_natural_gas_pollution.html).

Sources for this article include:

<http://www.reuters.com>

http://www.chinadaily.com.cn/cndy/2012-02/04/content_14536059.htm

<http://www.wantchinatimes.com>

Related Articles:

- [High levels of lead and cadmium found in the drinking glasses of children](#)
- [High levels of cadmium found in jewelry for children](#)
- [McDonald's recalled children's cups loaded with toxic cadmium](#)
- [Halloween and specialty stores nationwide may be selling lead and cadmium poisoning to your child](#)
- [Cadmium exposure may double breast cancer risk](#)
- [Lipstick found to contain alarmingly high levels of aluminum, cadmium and lead](#)



Cadmium exposure may double breast cancer risk

Friday, June 23, 2006 by: NaturalNews

(NaturalNews) -- A new study appearing in the Journal of the National Cancer Institute shows that women with high levels of the heavy metal cadmium in their bodies had a more than doubled risk of breast cancer than the average person.

The study compared cadmium levels in the urine of 246 breast cancer patients with 254 age-matched women in a control group, and found that the women with cadmium levels above a certain level were 2.29 times more likely to have breast cancer than women with lower levels of cadmium.

Dr. Jane A. McElroy, the study's lead researcher, said cadmium has already been classified by the U.S. Environmental Protection Agency as a likely cancer-causing substance. However, the study could not determine if the elevated levels of cadmium were a cause of the breast cancer, or a result of already having cancer.

McElroy says it is unclear how cadmium could cause breast cancer, but she believes it mimics the effect of estrogen on the body, which can increase a woman's risk of breast cancer. According to McElroy, if her study's findings can be replicated in a larger study, it could result in tighter restrictions on how cadmium is disposed of in the environment.

###

Related Articles:

- [Cancer is not a Disease - It's a Survival Mechanism \(Book Excerpt\)](#)
- [The mineral selenium proves itself as powerful anti-cancer medicine](#)
- [New research shows vitamin D slashes risk of cancers by 77 percent; cancer industry refuses to support cancer prevention](#)
- [Healing Illness - A Natural Anti-Cancer Protocol](#)
- [Mammograms cause breast cancer \(and other cancer facts you probably never knew\)](#)
- [Exposed: 10 Facts about the Breast Cancer Industry You're Not Supposed to Know \(opinion\)](#)