

Health & Wellness



Our Toxic World—Making RICE Less Toxic!!



Dr. Kate Thomsen and Silky

Who doesn't like rice? Cheap and plentiful, it is a staple in many cuisines and blends well into all kinds of dishes. This article is hoping to make you a wise and healthy rice consumer (if you choose to continue eating rice at all!! Yes it's that alarming!)

Rice is a grain that should contain many micronutrients. If eaten daily, small amounts of iron, zinc, manganese, and B vitamins can contribute to a healthy diet. Currently rice is suffering from micronutrient deficiency due to the modern farming practices of imbalanced fertilizers and continuous rice-wheat planting. Strike #1.

Brown rice is only hulled of the outer husk and still contains the bran and germ - and consequently most of the nutrition. White rice has the bran and germ removed and then is polished or further processed into flour or heated and puffed. Because 75 - 90% of the natural nutrients are lost, white rice is often "enriched" by spraywhich are easily washed off and cigarette smoke. The in pre-rinsing or cooking. Strike #2.

lands or flooded fields where 50ppb in 2001. (BTW, New cereal, rice milk, rice cakes, low and will be lower if you minerals and nutrients in the Jersey has the lowest drink- rice pasta, Rice Krispies, and prepare it in a way to lower

growing rice plant. 80% of to nj.gov/dep and search arstates (Arkansas, Louisiana, naturally occurring arsenic.) souri) where 30,000 tons of on amounts that would procotton fields in an effort to over 1 in a million. Previousarsenic (the most toxic form) and rice accumulates 10 times more of this than other grains. Rice grown organically takes up inorganic arsenic the same way.

Strike #3. Too much arsenic will affect the poor rice plant and growers have developed arsenic resistant rice strains so that crop yields remain high - it just means your body will be exposed to more arsenic!!! Strike #4.

Googling facts about rice will often bring you to rice growing industry sites (eg, Arsenicfacts.com) that and skin. Prenatal exposure will refute that rice is poisonous because "arsenic is term and low birth weight a natural compound in the infants. It can be neurosoil and all foods probably contain arsenic".

(Too many strikes

to continue counting.)

You have to read the scientific papers to see through this hocus-pocus. There is also small amounts of organic arsenic (less toxic) in rice.

Arsenic is a "non-threshold Class 1 carcinogen". current federal drinking water standard for arsenic is arsenic from rice includes Rice grows in wet low- 10ppb. It was lowered from rice products: infant rice

water and absorbed by the nic in the US at 5ppb!! Go rice grown in the US comes senic to find if your location from the central southern is affected by high levels of Texas, Mississippi and Mis- These standards are based arsenic were dumped into duce excess cancer deaths fight boll weevils. Arsenic ly it was thought to be water laden pesticides were banned but currently food (rice) is 30 years ago but they persist our main source of inorganic in the soils. This is inorganic arsenic exposure and yet no standards have been set that limit the amount of arsenic allowable in foods. A serving of rice has ~ 100ppb of inorganic arsenic!

Inorganic arsenic does not get stored in your body like mercury. It is eliminated within days but frequent passes through your body are opportunities for cell damage. Health conditions associated with exposure to inorganic arsenic include diabetes, cardiovascular disease including high blood pressure, impaired immune function, and cancers of the lung, liver, bladder, kidney increases the risk of pretoxic in small children and increase susceptibility to infections. Symptoms of chronic arsenic exposure include: recurring diarrhea, headache, insomnia, loss of in "healthy" cereal bars, enappetite, abnormal taste, impaired short term memory skin, small corns or warts Non-threshold means that on the palms, soles and torparalysis.

Exposure to inorganic ic arsenic than rice!! ground are liberated into the ing water standard for arse- brown rice syrup (often used the arsenic

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INTEGRATIVE AND HOLISTIC HEALTH AND WELLNESS

If You Insist on Eating Rice

Limit Exposure:

- pregnant women should reduce or eliminate their rice exposure; arsenic crosses the placenta.
- babies should eat other grains like oat and barley and have infant rice cereal no more than 2 servings per week (max of 1 serving per day)
- Consumer Reports recommends no more than 2 servings (1/2 cup) of rice per week for adults.

Buy Low Arsenic Rice:

· brown basmati from California, India, or Pakistan

Cooking Methods to Reduce Arsenic Content

- Do not use rice cookers the arsenic is not dumped out but preserved in this low water method
- Parboil and Dump. An August 2020 paper in Science Direct studied different cooking methods of both brown and white rice: unwashed, washed, pre-soaked and parboiled. The parboiled method removed 54% of inorganic arsenic from brown rice and 73% or inorganic arsenic from white rice.
 - o Start by cooking the rice in twice as much water as usual -4:1 (1/2 cup rice to 2 cups water)
 - o Boil for 5 minutes
 - o Throw the water out
 - o Begin again with the normal cooking ratio -2:1 (1/2 cup rice to 1 cup water) and simmer until done (usually 20 - 30 minutes)
- Cook rice like pasta: ¹/₂ cup rice to 5 cups water (very dilute) and dump water when done



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ergy bars and shots...)

Arsenic in seafood is and concentration, thicken- mainly organic arsenic - so to eat that aren't toxic!! ing or discoloration of the far thought to be harmless (well at least not as toxic as inorganic arsenic). Hithere is no "safe" level of so, nausea, abnormal heart jiki seaweed (another prior exposure. Class 1 carcino- rhythms, numbress in the health food favorite) howeving on vitamins and minerals gens also include asbestos hands and feet and partial er is a hundred times more contaminated with inorgan-

So Why Eat Rice?

• The nutrient content is

• You can't completely eliminate the arsenic

• There are other grains

Dr. Kate Thomsen's office for holistic health care is located in Pennington, NJ. She is trained in Family Medicine, and Board Certified in Integrative Medicine, and is an Institute for **Functional Medicine Certified** Practitioner. She has been practicing Functional Medicine for 23 years. For more information see www.drkatethomsen.com or call the office at 609-818-9700.

"Modern medicine, for all its advances, knows less than 10 percent of what your body knows instinctively." —Deepak Chopra