Lithium promotes Longevity, Mood, and Love.

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Unexpected results from a drug that is also an essential nutrient ...

Lithium is a brain food, with extraordinary properties, even in small amounts



Lithium has long been used as a mood stabilizer in the trea

first reported use was in 1949,¹ when Dr. John Frederick Joseph Cade, an Australian psychiatris treatment of manic depression disorder.

This was truly an important discovery because back then, the standard treatments for psychosis electrically induced in anesthetized patients for therapeutic effect) and lobotomy (a neurosurgica connections to and from the prefrontal cortex, the anterior part of the frontal lobes of the brain). It available to treat a mental illness. Horrah!

Lithium decreases mortality



Last January, we reported on a **lithium** study that heralded one the great adv January 2011 issue). Researchers from Germany and Japan analyzed the mortality rate in 18 ad element **lithium** contained in tap water from the respective regions.² "We found that the mortality the drinking water [bold added]," Professor Dr. Michael Ristow, the lead researcher explained.

Longer life from lithium

In other words, a regular small uptake of **lithium** can considerably promote longevity according to increased life expectancy in humans as well as in a model organism, the roundworm *Caenorhab* range of low concentration in the *C. elegans* and were able to confirm: "The average longevity of dosage [bold added]," Ristow said. "From previous studies we know already that a higher uptake psychological well-being and with decreased suicide rates [bold added]," Professor Ristow contired.

Lithium promotes the formation of new brain cells

Lithium is a brain food, with extraordinary properties, even in small amounts. As Durk Pearson *t* **Sandy Shaw Way"** in the May 2004 issue):

"One hundred to 150 years ago, we didn't have the kind of mechanistic medicine that we do now wasn't much knowledge, even 100 years ago, about why things went wrong, but there was a lot [See "SUNY's Nobel sage: NO is beautiful" on page 11.] That's interesting, but it was only a dinitric oxide).

"In the case of **lithium**, the first clue that we got came from European health spas. Some minera people: the springs made them feel better—made them function better—and improved their men

Especially when they soaked in and drank the spa water for a month or two—long enough that s great reputation and its water is still bottled and sold all around the world. It contains 3.5 mg of **li** is a beneficial amount. While it is a common belief that **lithium** must be taken at the level of hune evidence continues to grow that it only takes a much smaller amount, say 7 mg/day, to have ben

Lithium reduces violent crime

A study published in 1990, conducted over a 10-year period in 27 Texas counties, found that that

higher in counties whose drinking water supplies contained little or no **lithium** than in counties w researchers found that the people getting the higher levels of **lithium** had some beneficial menta

The corresponding associations with the incidence rates of robbery, burglary, and theft were stat effects on suicidal and violent criminal behavior at levels that may be encountered in municipal w

When differences in **lithium** consumption were taken into consideration in the Texas counties, th derivatives (morphine, heroin, and codeine) also produced statistically significant inverse associations observed with the reported arrest rates for possession of marijuana, driving under the statistical statistical significant inverse associations observed with the reported arrest rates for possession of marijuana, driving under the statistical statistical significant inverse associations.

In the lithium group, the total mood test scores increased during the four weeks supplementation and specif the subcategories reflec happiness, friendliness, and

Even low-dose lithium has mood-altering effects

Altogether, these results suggest that **lithium** at low dosage levels has a generally beneficial effect of **lithium** as a nutritionally-essential trace element. The lead author, Dr. Gerhard N. Schrauzer, evidence now appears to be sufficient to accept **lithium** as essential, with a provisional RDA for

* Dr. Schrauzer originally became interested in lithium after growing up next to a "miracle spring" beautiful" on page 11.)

Lithium may be good for Alzheimer's

There have been papers demonstrating that **lithium** can lower the neurotoxicity of amyloid-beta, toxicity zone. According to Durk & Sandy, "[W]e're talking about prevention, where a very small c plausibly produce some pretty big results years later. Also, researchers have found that **lithium** themselves and grow rather than die off when they're under stress ... such as brain-derived neurons from damage and preventing them from dying. [bold added]"5 The same authors have t mood disorders and in the activity of therapeutic agents in patients with mood disorders.⁶

Lithium found to enhance gray matter

Lithium has also been found to produce an increase in gray-matter portion of the brain consistin white matter. Alzheimer's disease (AD) actually causes the loss of neurons resulting in gray-material consisting in gray-materi

diminishes. So **lithium** may be especially important for AD. In another study, long-term **lithium**tr areas where suicide was associated with decreased volumes.⁸

How does lithium work?

Aside from all of the referenced findings about **lithium** made in "**Lithium** promotes longevity, r other properties. These include its usefulness in the treatment of acute brain injuries such as fr neurodegenerative diseases such as Parkinson's disease, Huntington's disease, and amyotrop properties of **lithium** is its anti-apoptotic action. Ethanol (drinking alcohol) is a neuroteratogen spectrum disorders (FASD) are caused by excessive maternal ethanol exposure during pregnative Exposure to high amounts of alcohol causes neuroapoptosis (brain-cell suicide) in the develop nervous system underlies many of the behavioral deficits observed in FASD. Excessive alcohologuerodegeneration in the adult brain.

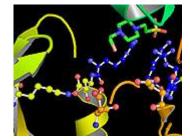


Fig. 1. The active site of GSK-3. The three residues in blue bind the priming phosphate on the substra

Recent *in vivo* and *in vitro* studies indicate that **lithium**is able to inhibit ethanol-induced neuroa (GSK3), which has recently been identified as a mediator of ethanol neurotoxicity (See Figure

Accordingly, **lithium**'s neuroprotection may result from its inhibition of GSK3. As well, **lithium** a neuronal survival and differentiation. In fact, there is a multitude of recent evidence of **lithium**-underlying mechanisms.

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Lithium found to increase neurogenesis, and memory

In the hippocampus, **lithium** was found to create new neurons (neurogenesis). ⁹ The hippocamp it's one of the few areas of the brain where it's possible for new neurons to grow. So this finding it

dose **lithium** may protect the microstructure of the hippocampus in ultra high-risk for psychosis another study, low-dose **lithium** was found to help mice with traumatic brain injury, enhancing specific water maze test. 11

Can lithium contribute to the feelings of new love?

A recent study has found that people with bipolar, depressive, and other psychiatric disorders are by subjects with these disorders testing high on anxiety and avoidance scale. 12 From the above dose **lithium** can improve mood, and thus reduce anxiety. 3,10-11

Also, another study (see "I'm in the mood for love" in the November 2012 issue) identified a cl (NGF) levels, ¹³ and **lithium** increases NGF levels. In a recent review, ¹⁴ "**Lithium** acts through This enzyme phosphorylates and inhibits nuclear factors that turn on cell growth and protection $\mathfrak p$ transription factor $\mathfrak p$ -catenin in the Wnt pathway]. In animals, **lithium** upregulates neurotrophins, (NT3), as well as receptors to these growth factors in brain [bold added]." In reference 13, "Notal and the intensity of romantic love as assessed with the passionate love scale."

Also, according to that review, "**Lithium** also stimulates proliferation of stem cells, including bonforebrain. The stimulation of endogenous neural stem cells may explain why **lithium**increases by

Lithium increases happiness, friendliness, and energy

In a placebo-controlled study with former drug users (mostly heroin and methamphetamines), ¹⁵ randomly divided into two groups, one receiving 400 µg of **lithium** per day in yeast, the other a propositive mood test questionnaires. In the **lithium** group, the total positive mood test scores increased ste subcategories reflecting happiness, friendliness, and energy. In the placebo group, the combined actually declined. **Lithium** is a sure bet to ensure your future, your mood, and perhaps even the

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