The Borax Conspiracy

How the Arthritis Cure has been Stopped
by Walter Last

You may not be able to imagine that borax, a humble insecticide and laundry detergent, has the potential of单手headedly bringing down our entire economic system. But you do not need to worry, the danger has been recognised and the necessary steps are already being taken to defuse the situation. I will start with the basics and you will understand what I mean as the story unfolds.

Boron is a naturally occurring mineral commonly mined from dried salt lakes, and is the source of other manufactured boron compounds. The main deposits are in California and Turkey. Chemical names are sodium tetraborate dehydrate, disodium tetraborate dehydrate, or simply sodium borate. This means it contains four atoms of boron as its central feature combined with two sodium atoms and ten molecules (or sometimes less) of crystallisation water. All borax is naturally mined, there is no synthetic borax.

Boron is the sodium salt of the weak boric acid. In solution, borax is strongly alkaline with a pH between 9 and 10 (pH 7 is neutral). When ingested, it reacts with hydrochloric acid in the stomach to form boric acid and sodium chloride. The boron content of Borax is 11.3% while for boric acid it is 17.5% or about 50% higher. Ingested boron compounds are rapidly and nearly completely excreted with the urine. Formerly boric acid was widely used as a preservative in foods but is now banned for this purpose in most countries.

Boron is present in all plants and unprocessed foods. Good diets provide about 2 to 5 mg of boron per day, but in reality the average intake in developed countries is 1-2 mg of boron per day and institutionalized patients may receive only 0.25 mg of daily boron. Chemical fertilizers inhibit the uptake of boron from the soil. Chemical fertilizers combined with poor food choices have greatly reduced our boron intake compared to 50 or 100 years ago. Boron intake is further reduced by discarding cooking water of vegetables containing most of the minerals may be discarded during home cooking or commercial processing; and by the phytic acid in baked goods. Gluten sensitivity and Candida overgrowth inhibit the absorption of minerals. All this makes health problems due to boron deficiency now very common.

Health Effects of Boron

Due to their content of boron, borax and boric acid have basically the same health effects, with good anti-septic, anti-fungal, and antiviral properties but only mild antibacterial action. In plants as well as animals boron is essential for the integrity and function of cell walls, and the way signals are transmitted across membranes. Boron is distributed throughout the body with the highest concentration in the parathyroid glands, followed by bones and dental enamel. It is essential for healthy bone and joint function, regulating the absorption and metabolism of calcium, magnesium and phosphorus through its influence on the parathyroid glands. With this boron is for the parathyroids what iodine is for the thyroid.

Boron deficiency causes the parathyroids to become overactive, releasing too much parathyroid hormone which raises the blood level of calcium by releasing calcium from bones and teeth. This then leads to osteoarthritis and other forms of arthritis, osteoporosis and tooth decay. With advancing age high blood levels of calcium lead to calcification of soft tissues causing muscle contractions and stiffness; calcification of endocrine glands, especially the pineal gland and the ovaries; arteriosclerosis, kidney stones, and calcification of the kidneys ultimately leading to kidney failure. Boron deficiency combined...
with magnesium deficiency is especially damaging to the bones and teeth.

Boron affects the metabolism of steroid hormones, and especially of sex hormones. It increases low testosterone levels in men and oestrogen levels in menopausal women. It also has a role in converting vitamin D to its active form, thus increasing calcium uptake and deposition into bone and teeth rather than causing soft tissue to calcify. Also other beneficial effects have been reported such as improvement of heart problems, vision, psoriasis, balance, memory and cognition.

The German cancer researcher Dr Paul-Gerhard Seeger has shown that cancer commonly starts with the deterioration of cell membranes. As boron is essential for cell membranes and boron deficiency widespread, this may be an important cause for the initiation of tumour growth. Boron compounds have anti-tumour properties and are “potent anti-osteoprotic, anti-inflammatory, hypolipemic, anti-coagulant and anti-neo-plastic agents” (1).

The Arthritis Cure of Rex Newnham

In the 1960’s Rex Newnham, Ph.D., D.O., N.D, developed arthritis. At that time he was a soil and plant scientist in Perth, Western Australia. Conventional drugs did not help, so he looked for the cause into the chemistry of plants. He realized that plants in that area were rather mineral deficient. Knowing that boron aids calcium metabolism in plants he decided to try it. He started taking 30 mg of borax a day, and in three weeks all pain, swelling and stiffness had disappeared.

He told public health and medical school authorities about his discovery but they were not interested. However, some people with arthritis were delighted as they were not interested. Some reported that their heart ailment had also improved, and there was better general health and less tiredness. (3)

Most of his later research was devoted to the relationship between soil boron levels and arthritis. He found, for instance, that the traditional sugarcane islands, due to long-term heavy use of fertilizers, have very low soil-boron levels. Jamaica has the lowest level and arthritis rates are about 70%. He noted that even most dogs were limping. Next comes Mauritius with very low boron levels and 50% arthritis. The daily boron intake in these countries is less than 1 mg/day. An interesting comparison is between Indian and native Fijians. The Indians are estimated to have an arthritis rate of about 40% and eat much rice grown with fertilizer while the native Fijians with an estimated arthritis rate of 10% eat mainly starchy root vegetables grown privately without fertilizer.

The US, England, Australia and New Zealand generally have average soil-boron levels with an estimated intake of 1 to 2 mg of boron and arthritis rates of about 20%. But Carnarvon in Western Australia has high boron levels in soil and water, and the arthritis rate is only 1%. It is similar in a place called Ngawha Springs in New Zealand with very high boron levels in the spa water which is curative for arthritis. Actually all spas reputedly curing arthritis have very high boron levels. These are also high in Israel with an estimated daily boron intake of 5 to 8 mg and only 0.5 - 1% arthritis.

Bone analysis showed that arthritic joints and nearby bones had only half the boron content of healthy joints. Equally, synovial fluid that lubricates joints and provides nutrients to the cartilage is boron deficient in arthritic joints. After boron supplementation bones were much harder than normal and surgeons found them more difficult to saw through. With additional boron bone fractures heal in about half the normal time in both man and animal. Horses and dogs with broken legs, or even a broken pelvis, have fully recovered.

Boron is also effective with other forms of arthritis, such as Rheumatoid Arthritis, Juvenile Arthritis, and Lupus (Systemic Lupus Erythematosus). For instance Dr Newnham saw a young girl aged 9 months with juvenile arthritis. He was able to cure her in 2 weeks.

Subsequently he published several scientific papers on borax and arthritis. One was a double-blind trial in the mid 1980’s at the Royal Melbourne Hospital which showed that 70% of those who completed the trial were greatly improved. Only 12% improved when on placebo. There were no negative side-effects, but some reported that their heart ailment had also improved, and there was better general health and less tiredness. (3)

Osteoporosis and Sex Hormones

Boron deficiency causes greatly increased amounts of calcium and magnesium to be lost with the urine. A borax supplement will reduce the daily loss of calcium by nearly 50%. As this calcium comes mainly from resorbed bone and teeth, boron deficiency may be the most important factor in causing osteoporosis and tooth decay.

It has been estimated that 55% of Americans over 50 have osteoporosis and of these about 80% are women. Worldwide 1 in 3 women and 1 in 12 men over the age of 50 may have osteoporosis, and this is responsible for millions of fractures each year. Rats with osteoporosis were given a boron supplement for 30 days with the result that their bone quality was now comparable with that of the healthy control group and of a group supplemented with oestadiol (6).

The beneficial effect of borax on bones seems to be due to two interrelated effects: a higher boron content of the bones which makes them harder, and a normalisation of sex hormones which stimulates the growth of new bone. Low oestrogen levels after menopause are thought to be the main reason why so many older women develop osteoporosis. In men testosterone levels decline more gradually which seems to be reflected in their later onset of osteoporosis as a group.
Research has now shown that boron supplementation in postmenopausal women doubles the blood level of the most active form of oestrogen, 17-beta oestradiol, to the level found in women on oestrogen replacement therapy. Equally, the blood levels of testosterone more than doubled (7). With HRT there is a higher risk of breast or endometrial cancer which is not known to happen with hormones produced by the body as with borax supplementation.

Some women get premenstrual problems because oestrogen levels are too high and progesterone too low, and therefore may be afraid of using boron. However, I found no evidence that boron raises oestrogen above normal healthy levels. Boron may balance levels of sex hormones similar to the action of maca root powder. Maca acts on the pituitary gland not only to increase but also to balance our sex hormones and seems to stimulate our own progesterone production as needed.

A recent study in younger men (29 - 50) showed that the level of free testosterone (the form that matters most) had risen by one third after a daily supplementation of about 100 mg of borax for one week (8). This is of special interest for bodybuilders.

Contrary to the medical preference of chemically castrating men with prostate cancer, research with boron has shown that elevated testosterone levels are beneficial by shrinking prostate tumours and PSA levels, PSA being a marker for tumours and inflammation in the prostate. Also significantly improved memory and cognition in elderly individuals may be partly due to increased levels of sex hormones and partly to improved membrane functions of brain cells (9).

I have been asked about boron supplementation for women with oestrogen-sensitive breast cancer. Breast cancer is related to calcifications in the breast. In my opinion it is more important to normalize the calcium-magnesium metabolism and cellular membrane functions rather than feel restricted by a possibly faulty medical concept, especially as I believe that cancer can usually be controlled with long-term antimicrobial therapy. Therefore I would use boron as well as maca in this case.

Fungi and Fluoride

Being such an excellent fungicide it is not surprising that borax is being successfully used to treat Candida. There is much interesting information on an Earth Clinic forum called Borax Cures (10). With low to medium-weight people use 1/8 teaspoon of borax powder and with heavier weight 1/4 teaspoon per litre of water. One drinks the water spaced out during the day, and does this for 4 or 5 days a week as long as required.

Many contributors wrote that it cured or greatly helped them. So for instance this post: "I also have psoriasis, so maybe the soreness in my joints is the psoriatic arthritis creeping in. I thought after reading about borax here on this forum, I would give it a try. In one day, the soreness in my knees has vanished! ... Also, my psoriasis seems a lot better after 2 days drinking 1/4 tsp borax in 1 litre of water per day."

Another one about toe fungus: “He wet his feet and then took a handful (of borax) and rubbed it all over his feet. He said it stopped itching immediately! He was stunned. A few weeks later I asked him how his athletes foot was and he said: oh wow! it hasn’t come back! that stuff totally cured it !!!”

Other enthusiastic posts were about vaginal thrush. Borax appeared to be more effective than other remedies. Commonly one large gelatine capsule filled with borax or boric acid was inserted at bedtime for several nights or up to 2 weeks. Alternatively the powder can be mixed with cool solidified coconut oil as a bolus or suppository.

A recent scientific study (11) confirms these positive observations with vaginal thrush. Boric acid at the dose of a filled capsule worked even in cases of drug-resistant Candida and against all the tested pathogenic bacteria. Because of the greater dilution, a douche may not be strong enough for bacteria and drug-resistant Candida but it should work for normal Candida. Borax, due to its alkalinity, was more effective than boric acid.

In normal healthy conditions Candida exists as harmless oval yeast cells. When challenged, chains of elongated cells called pseudohyphae develop, and finally strongly invasive long, narrow and tube-like filaments called hyphae. These damage the intestinal wall, and cause inflammation and Leaky Gut Syndrome. Pseudohyphae and hyphae can be seen in the blood of individuals with cancer and autoimmune diseases. Candida can also form tough layers of biofilm. This same study shows that boric acid/borax inhibits the formation of biofilms and also the transformation of harmless yeast cells into invasive hyphal form. In other articles I have shown that this process, commonly initiated by antibiotics, is a basic cause of most of our modern diseases, and this makes borax and boric acid primary health remedies. But this article shows that there are many more reasons to give them a top rating. A scientific review in 2011 concluded: “... boric acid is a safe, alternative, economic option for women with recurrent and chronic symptoms of vaginitis when conventional treatment fails...” (12). But as it is so much better than drugs why not use it as a first option, or use the even more effective borax?

Another study from Turkey (13) shows the protective effect of borax acid on food contaminated with mycotoxins, especially fungal aflatoxins. Among these, Aflatoxin B1 (AFB1) causes extensive DNA damage and is the most potent carcinogen ever tested, especially affecting liver and lungs, also causing birth defects, immunotoxicity and even death in farm animals and humans. Boric acid treatment was protective and led to increased resistance of DNA to oxidative damage induced by AFB1. The strong anti-fungal action of boric acid is, of course, the reason why it has traditionally been used as a food preservative.

Borax, similar to the equally endangered Lugol’s iodine solution, can also be used to remove accumulated fluoride and heavy metals from the body (14). Fluoride not only causes bones to deteriorate, but also the pineal gland to calcify and the thyroid to become underactive. Borax reacts with fluoride ions to form boron fluorides which are then excreted in the urine.

In a Chinese study borax was used to treat 31 patients with skeletal fluorosis. The amount was gradually increased from 300 to 1100 mg/day during a three month period, with one week off each month. The treatment was effective with 50 to 80% improvement.

One forum contributor suffered with Fibromyalgia/Rosacea, chronic fatigue and TMJ for over 10 years which she believed were caused by fluoride. She used 1/8 tsp of borax and 1/8 tsp of sea salt in a litre of de-chlorinated water, and drank this for 5 days each week. Within two weeks her face cleared, the redness faded, body temperature normalized, energy level increased, and she steadily lost excess weight. The only side-effect was an initial aggravation of her Rosacea symptoms.

Another post: “7 years ago thyroid cancer, the next year adrenal fatigue, then early menopause, the following year uterine prolapse followed by hysterectomy - the following year fibromyalgia and neuropathy. Early Childhood was fluorinated water along with fluoride tablets. Fall of 2008 I was looking at total disability. I could barely walk and couldn’t sleep because of the pain and was throwing up daily from the pain in my back. ... After reading about fluoride I came to understand where all of my problems originated. ... I began the borax detox of 1/8 tsp in a litre of water and within 3 days my symptoms were almost gone.”

Calcium-Magnesium Metabolism

There is antagonism as well as cooperation between calcium and magnesium. About half of the total body magnesium is found in bones and the other half inside the cells.
of tissues and organs. Only 1% is in the blood, and the kidneys try to keep this levels constant by excreting more or less with the urine.

In contrast, 99% of calcium is in bones, and the rest in the fluid outside of cells. Muscles contract when calcium moves into the cells, and they relax when calcium is again pumped out and magnesium moves in. This cellular pump requires much energy to pump calcium out, and if cells are low in energy, then calcium may accumulate inside cells. Low cellular energy may be due to Candida, faulty sugar or fat metabolism, deficiencies, or accumulating metabolic wastes and toxins.

This then leads to only partial relaxation of the muscles with stiffness, a tendency to cramps, and poor blood and lymph circulation. The problem gets worse the more calcium moves from bones into soft tissue. Nerve cells can also accumulate calcium, leading to faulty nerve transmission, in the lens it causes cataracts, hormonal output keeps reducing as endocrine glands increasingly calcify, and all other cells become handicapped in their normal functions. In addition it causes intracellular magnesium deficiency. Magnesium is needed to activate countless enzymes, and a deficiency leads to inefficient and blocked energy production.

A further problem is that excess calcium damages the cell membrane and makes it difficult for nutrients to move in and wastes to move out. When the intracellular calcium level gets too high the cell will die.

Here we can see the importance of boron as a regulator of cell membrane functions, especially in regard to movements of calcium and magnesium. With boron deficiency too much calcium moves into the cell while magnesium cannot move inside to displace it. This is the condition of old age and of the boron-deficiency diseases leading up to it.

While in good health and especially in younger years a calcium - magnesium ratio of 2 : 1 is normal and beneficial and supplied with a good diet. But with increasing age, boron deficiency and resulting disease conditions we need progressively less calcium and more magnesium.

For boron to be fully effective in reversing tissue calcification ample magnesium is required. For elderly individuals I recommend 400 to 600 mg of magnesium together with the daily borax supplementation spaced out during the day, and with protracted joint problems additional trans-dermal magnesium. However, oral magnesium may need to be adjusted according to its laxative effect. I am doubtful whether calcium supplements are needed and beneficial, even in case of osteoporosis.

In my view these individuals have plenty of calcium stored in soft tissues where it does not belong, and supplementing boron and magnesium is expected to redeposit this misplaced calcium into bones. I regard the medical focus on a high calcium intake as a prescription for accelerated aging.

What and How Much to Use

In some countries (e.g. Australia, NZ, USA) borax can still be found in the laundry and cleaning sections of supermarkets. There is no “food-grade” borax available or necessary. All borax is the same and “natural”, and usually mined in California or Turkey, whether it has been packed in China or any other country. The label usually states that it is 99% pure (or 990g/kg borax) which is safe to use, and is the legal standard for agricultural grade borax. Up to 1% mining and refining residues are permitted. Boric acid, if available, may be used at about 1/3 the dose of borax, it is not for public sale in Australia.

Firstly dissolve a lightly rounded teaspoonful (5-6 grams) of borax in 1 litre of good quality water. This is your concentrated solution, keep it out of reach of small children.

Standard dose = 1 teaspoon (5 ml) of concentrate. This has 25 to 30 mg of borax and provides about 3 mg of boron. Take 1 dose per day mixed with drink or food. If that feels right then take a second dose with another meal. If there is no specific health problem or for maintenance you may continue indefinitely with 1 or 2 doses daily.

If you do have a problem, such as arthritis, osteoporosis and related conditions, cramps or spasms, stiffness due to advancing years, menopause, and also to improve low sex hormone production, increase intake to 3 or more spaced-out standard doses for several months or longer until you feel that your problem has sufficiently improved. Then drop back to 1 or 2 doses per day.

For treating Candida, other fungi and mycoplasmas, or for removing fluoride from the body - using your bottle of concentrated solution:

Lower dose for low to normal weight - 100 ml (= 1/8 teaspoon of borax powder or 500 mg); drink spaced out during the day.
Higher dose for heavier individuals - 200 ml (= 1/4 teaspoon of borax powder or 1000 mg); drink spaced out during the day.

Always start with a lower dose and increase gradually to the intended maximum. Take the maximum amounts for 4 or 5 days a week as long as required, or alternatively periodically alternate between a low dose and your maximum dose.

For vaginal thrush fill a large size gelatine capsule with borax and insert it at bedtime for one to two weeks. With toe fungus or athlete’s foot wet the feet and rub them with borax powder.

You may take borax mixed with food or in drinks. It is rather alkaline and in higher concentrations has a soapy taste. You may disguise this with lemon juice, vinegar or ascorbic acid.

In Europe borax and boric acid have been classified as reproductive poisons, and since December 2010 are no longer available to the public within the EU. Presently borax is still available in Switzerland, but shipment to Germany is not permitted. In Germany a small amount (20-50 grams) may be ordered through a pharmacy as ant poison, it will be registered.

Boron tablets can be bought from health shops or the Internet, commonly with 3 mg of boron. In some European countries, such as The Netherlands, these may still contain borax, but not in others, such as Germany, where boron is not allowed in ionic form as with borax or boric acid. While suitable as a general boron supplement, I do not expect them to work against Candida and mycoplasmas. Most scientific studies and individual experiences in regard to arthritis, osteoporosis, or sexual hormones and menopause were with borax or boric acid. It is not yet known if non-ionic boron is as effective as borax. To improve effectiveness I recommend 3 or more spaced-out boron tablets daily for an extended period combined with sufficient magnesium and a suitable antimicrobial program.

Possible Side-Effects

While side-effects from pharmaceutical drugs tend to be negative and often dangerous, with natural medicine such as borax therapy these are usually healing reactions with beneficial long-term effects. Most common is the Herxheimer reaction from eliminating Candida.

In some of the above forum posts rapid improvement was experienced within days. This is always a functional response. High cellular calcium levels cause muscle contraction with cramps or spasms as a common cause of pain. Boron, especially together with magnesium, can rapidly relax these muscles and take away the pain.

However, with long-standing severe calcifications a large amount of calcium cannot be redistributed in a short time. This leads to increased calcium levels in the affected area, especially the hips and shoulders, and can cause problems for a considerable time, such as a tendency to severe cramping and pain, or problems with the blood circula-
tion, or nerve transmission. Nerve-related effects in hands and feet may be numbness, or reduced sensitivity or feeling in the skin. Higher amounts of calcium and fluoride passing through the kidneys may cause temporary kidney pain. Such healing reactions cannot be avoided when aiming for a higher level of health.

Whenever you experience an unpleasant effect reduce or temporarily stop borax intake until the problem subsides. Then gradually start increasing again. Helpful additional measures are a greatly increased fluid intake, using more organic acids such as lemon juice, ascorbic acid or vinegar, and improving lymph flow as with rebounding, walking or inverted positions.

**Toxicity Issues**

Government health agencies are concerned about boron toxicity. You might be concerned as well if you read the following, pertaining to sodium chloride or table salt (17): 'Acute oral toxicity (LD50 - the dose at which half of the tested animals die): 3,000 mg/kg [ Rat]. Chronic Effects on Humans: Mutagenic for mammalian somatic cells. Slightly hazardous in case of skin contact, ingestion or inhalation. Lowest Published Lethal Oral Dose in Man: 1000 mg/kg. Causes adverse reproductive effects in humans (fetotoxicity, abortion) by intraplacental route, may increase risk of Toxemia of Pregnancy in susceptible women. May cause adverse reproductive effects and birth defects in animals, particularly rats and mice - fetotoxicity, abortion, musculoskeletal abnormalities, and maternal effects (on ovaries, fallopian tubes). May affect genetic material (mutagenic). Ingestion of large quantities can irritate the stomach with nausea and vomiting. May affect behavior (muscle spasticity/contraction, somnolence), sense organs, metabolism, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma.'

Now compare the sodium chloride toxicity with the Material Safety Data Sheet or MSDS for borax (18): 'Low acute oral toxicity; LD50 in rats 4,500 to 6,000 mg/kg of body weight. Reproductive/developmental toxicity: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with boric acid in the rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed. No evidence of carcinogenicity in mice. No mutagenic activity was observed in a battery of short-term mutagenicity assays. Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to borate dust and no effect on fertility.'

Here you see that table salt is 50 to 100% more toxic than borax, it changes the genetic and is mutagenic, while borax is harmless in this regard. Infants are most at risk from high borax ingestion. It has been estimated that 5 to 10 grams can cause severe vomiting, diarrhea, shock and even death, but it also says that lethal doses are not well documented in the literature.

The following toxicity data are from documents of the US Environmental Protection Agency and the Centers for Disease Control (19, 20).

A review of 784 accidental human poisonings from 10 - 88 grams of boric acid reported no fatalities, with 88% of cases being asymptomatic, meaning they did not notice anything. However, gastrointestinal, cardiovascular, hepatic, renal, and central nervous system effects, dermatitis, erythema, and death have been observed in some children and adults exposed to more than 84 mg boron/kg, corresponding to more than 40 grams of borax for 60 kg of body weight.

Animal studies have identified reproductive toxicity as the most sensitive effects of boron ingestion. Exposure of rats, mice, and dogs for several weeks showed some damage to the testes and sperm at doses of more than 26 mg boron/kg which corresponds to 15 grams of borax/day for 60 kg body weight. Most at risk is the developing foetus, and in the studied animals rats were most affected. In one study slight reductions in the foetal body weight were already found at 13.7 mg boron/kg/day used during pregnancy. The no effect dose was set at less than 13.7 mg/kg/day corresponding to about 7 grams of borax per day for 60 kg body weight. With an added safety factor a no effect value of 9.6 mg boron/kg/day was calculated corresponding to 5 grams of borax for 60 kg.

However, a rat study lasting for 3 generations found no reproductive toxicity or effect on the parents or offspring at 30 mg boron/kg/day. This dose corresponds to 17 grams of borax for 60 kg ingested for 3 generations! In another 3-generation study no problem was found at 17.5 mg boron/kg/day, corresponding to 9 grams of borax/60 kg, while the next higher tested dose of 58.5 mg/kg/day, corresponding to 30 grams of borax/60 kg, resulted in infertility. Therefore we can assume that the safe reproductive dose is up to about 20 grams/60 kg/day.

Human studies of the possible association between impaired fertility and high boron levels in water, soil and dust in a Turkish populations, and boron mining and processing workers, found no effect. One study even reported elevated fertility rates in borax production workers as compared to the U.S. national average.

All this is important because possible reproductive toxicity is the official reason for the present assault on borax. The sodium chloride MSDS mentioned above also states: “While sodium chloride has been used as a negative control in some reproductive studies, it has also been used as an example that almost any chemical can cause birth defects in experimental animals if studied under the right conditions.” Keep this in mind when you read the following.

**The Assault on Borax**

Arthritis in its various forms and its close relative osteoporosis affect about 30% of the population in developed countries. Osteoporosis is responsible for more long term hospital care than any other individual disease. This is due to the very high incidence of fractures, and especially the protracted nature of hip fractures. This is a main source of income for the medical-pharmaceutical system. If the boron-magnesium cure for these diseases should become widely known, this vital income stream would dry up and the system collapse. As this is the biggest and most profitable industry in the world, this cannot be allowed to happen.

When Dr Newnham discovered the boron-arthritis cure it was not a big problem for the pharmaceuticals because news travelled slowly and was easily suppressed. This is very different now with Internet communication. Most research funding comes from the pharmaceutical industry, and nothing has come forward to duplicate Dr Newnham’s findings and other positive osteoporosis studies. Instead, funding goes into the development of patentable boron drugs for limited application as in chemotherapy, or even to discredit boron. A test-tube experiment found that a relatively low dose of about 4 grams of borax can damage lymphocytes, just like an earlier test-tube study showed that vitamin C supplements are toxic. Most positive borax studies now come from China, Japan and Turkey.

PubMed is a publicly funded search facility for bio-medical research publications. While other articles for Newnham R.E. and Zhou L.Y. are still listed, the two important borax publications mentioned earlier - about the arthritis trial at the Royal Melbourne Hospital and the treatment of skeletal fluorosis in China - are no longer listed, but they belong there and obviously had been there originally. I suspect that they have been deliberately removed to prevent them from being quoted in other research.
In addition, increasing effort goes into publicly demonizing borax for its alleged reproductive and infant toxicity. As an example I recently read an article by a ‘senior scientist’ of the supposedly ‘green’ Environmental Working Group. In it the perceived dangers of borax were so exaggerated that most comments in effect said: “Thank you for opening my eyes. I did not know how poisonous and dangerous borax is, I certainly will not use it anymore in my laundry, or for cleaning my toilet and kitchen”.

This is obviously a deliberate campaign to make people grateful for banning borax from public sale. For laundry and cleaning purposes Borax Substitute now replaces the product previously sold as Borax. The EU has spearheaded this campaign. In June 2010 borax and boric acid were reclassified as “Reprotoxic Category 2”, suggesting that they may be harmful to the reproductive functions of humans in high doses, and the product package must display the skull and crossbones symbol. From December 2010 these products were no longer available for public sale within the EU. While this classification now applies for all of Europe, non-EU countries still have some leeway in regard to public sales. This initiative is part of a Globally Harmonized System of Classification and Labelling of Chemicals (GHS) which is to be implemented as soon as possible. Australia is well-advanced on preparing regulations to implement the GHS for industrial chemicals, with new regulations expected in 2012 (21).

The European Chemicals Agency gave as reason for their reclassification of boron products (paraphrased): ‘The available data do not indicate major differences between laboratory animals and humans, therefore it must be assumed that the effects seen in animals could occur in humans as epidemiological studies in humans are insufficient to demonstrate the absence of an adverse effect of inorganic borates on fertility. 17.5 mg boron/kg/day was derived as a NOAEL (no adverse effect level for male and female fertility. For the rat decreased foetal weight occurred at 13.7 mg boron/kg/day, and a safe limit of 9.6 mg/kg/day has been derived.’ (22)

What they are really saying is this: ‘While we have no human data, animal studies suggest that for adult reproductive functions a daily ingestion of about 2 teaspoons of borax is safe. But to be absolutely sure that no-one is harmed, we will ban it totally.’ Importantlly, this ruling is not related to borax in foods or supplements where it is already banned, but only for general use as in laundry or cleaning products or as insecticides. Because borax is not readily inhaled or absorbed through intact skin, it is difficult to see how even a few milligrams daily could get into the body with the conventional use. If the same standard would apply to other chemicals there would be none left.

The key study in this assessment was published in 1972. Why is this being dug up now to justify banning borax when it was of no concern for the past 40 years? It does not make any scientific sense, especially if you consider that the main chemical in the new borax substitute, sodium percarbonate, is about three times more toxic than borax. Acute oral LD50 values for animals are from 1034 to 2200 mg/kg/day (23). Even the commonly used sodium bicarbonate, with an animal LD50 of 3360 mg/kg, is nearly twice as toxic as borax (24). Both of these chemicals have not been tested for long-term reproductive toxicity at the high doses that caused fertility problems in rats and mice.

The same applies to washing powders, it has been stated that no toxicity is expected if used in the approved way, or that reproductive tests have not been done. Ingredients in these products are more toxic than borax, why can they be used in the approved way but not borax? And how about really toxic items such as caustic soda and hydrochloric acid? Why do they remain available to the public when one of the safest household chemicals is banned despite the fact that it is absolutely impossible to cause any reproductive harm with the approved use?

Regardless of the lack of any scientific credibility, the stage has been set for borax and boric acid to be globally removed from public sale at short or no notice. Even low-level and less effective boron tablets are now tightly controlled by the pharmaceutical industry, and may be restricted at any time through Codex Alimentarius regulations. With this the medical-pharmaceutical system has safely defused any potential danger that borax may have posed to its profitability and survival.***

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Walter Last is a retired biochemist, research chemist, nutritionist and natural therapist based in Australia. He was born and grew up in Germany and has held positions in medical institutions at the Universities of Greifswald, Cologne and Munich, working in research and toxicological investigations. He was Chief Forensic Chemist at Cologne and worked at Bio-Science Laboratories in Los Angeles. In 1970 he settled in New Zealand and dissatisfied with drug-based medicine practiced as a Natural Therapist. He has lived in Queensland since 1981 and has investigated and experimented with a wide range of natural therapies to improve the effectiveness of natural medicine in treating serious and medically incurable diseases. Due to space restraints, see the full text and endnotes at www.health-science-spirit.com Used by permission of the Author.

I was reacquainted with cayenne again when my chronic back problem worsened towards the end of last year. I was in constant pain which impacted my sleep as well as when I was awake. Heat packs and chiropractic appointments were having limited results. I contacted Kaye for advice, and she recommended water treatments or cayenne poultices. Having seen the benefits of cayenne first-hand, I decided to try the poultices. I sprinkled cayenne on olive oil that had been drizzled over a bluey (a plastic lined paper cloth). These were applied regularly. Within a few days my level of pain had greatly decreased. It was amazing to actually experience the effects of cayenne myself. Cayenne poultices are now an integral part of my ongoing management.

In one of Kaye’s classes last year I asked a question on how to improve vascular health, in particular, what can help promote the elasticity of arteries? (plus decrease atherosclerosis or hardening of the arteries.) Kaye’s answer: cayenne. Today I regularly take cayenne with meals to help counteract a family history of cardiovascular disease. I cannot imagine my life without cayenne and its amazing benefits.

I thank Kaye for her wonderful advice and recommend cayenne to everyone.

Pauline Lohmeyer

Amazing Cayenne

My first contact with cayenne was quite dramatic. My elderly mother had experienced a number of gastro-intestinal bleeds with the same serious outcome: being taken by ambulance to hospital, pale and exhausted, for treatment that included blood transfusions, and a lengthy recovery period. One evening as another GI bleed began, I contacted Kaye Sehm. My hope was that we could lessen the impact of the bleeding. Kaye’s advice was to take cayenne regularly. A heaped teaspoon in a glass of water was taken hourly for approximately 6 hours before my mother went to hospital. While tired from lack of sleep, my mom looked very much within herself and was not pale from blood loss. Her haemoglobin was normal and no transfusion was required. Her stay in hospital was brief, confined to a physical check-up and waiting for results of blood tests. It was an amazing experience to witness this effect of cayenne.

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Education in health principles was never more needed than now. Notwithstanding the wonderful progress in so many lines relating to the comforts and conveniences of life, even to sanitary matters and to the treatment of disease, the decline in physical vigour and power of endurance is alarming. It demands the attention of all who have at heart the well-being of their fellow men.

Our artificial society is encouraging evils destructive of sound principles. Custom and fashion are at war with nature. The practices they enjoin, and the indulgences they foster, are steadily lessening both physical and mental strength, and bringing upon the race an intolerable burden. Intemperance and crime, disease and wretchedness, are everywhere. Many transgress the laws of health through ignorance, and they need instruction. But the greater number know better than they do. They need to be impressed with the importance of making their knowledge a guide of life.

A practice that is laying the foundation of a vast amount of disease and of even more serious evils is the free use of poisonous drugs. When attacked by disease, many will not take the trouble to search out the cause of their illness. Their chief anxiety is to rid themselves of pain and inconvenience. So they resort to patent nostrums (medicines and cures that do not work as claimed), of whose real properties they know little, or they go to a physician for some remedy to counteract the result of their misdoing, but with no thought of making a change in their unhealthful habits. If immediate benefit is not realized, another medicine is tried, and then another. Thus the evil continues.

People need to be taught that drugs do not cure disease. It is true that they sometimes afford present relief, and the patient appears to recover as the result of their use; this is because nature has sufficient vital force to expel the poison and to correct the conditions that caused the disease. Health is recovered in spite of the drug. But in most cases the drug only changes the form and location of the disease. Often the effect of the poison seems to be overcome for a time, but the results remain in the system and work great harm at some later period.

By the use of poisonous drugs, many bring upon themselves lifelong illness, and many lives are lost that might be saved by the use of natural methods of healing. The poisons contained in many so-called remedies create habits and appetites that mean ruin to both soul and body. Many of the popular nostrums called patent medicines, and even some of the drugs dispensed by physicians, act a part in laying the foundation of the liquor habit, the opium habit, the morphine habit, that are so terrible a curse to society.

The only hope of better things is in the education of the people in right principles. Let physicians teach the people that restorative power is not in drugs, but in nature. Disease is an effort of nature to free the system from conditions that result from a violation of the laws of health. In case of sickness, the cause should be ascertained. Unhealthful conditions should be changed, wrong habits corrected. Then nature is to be assisted in her effort to expel impurities and to re-establish right conditions in the system.

Pure air, sunlight, abstemiousness, rest, exercise, proper diet, the use of water, trust in divine power—these are the true remedies. Every person should have a knowledge of nature’s remedial agencies and how to apply them. It is essential both to understand the principles involved in the treatment of the sick and to have a practical training that will enable one rightly to use this knowledge.

The use of natural remedies requires an amount of care and effort that many are not willing to give. Nature’s process of healing and upbuilding is gradual, and to the impatient it seems slow. The surrender of hurtful indulgences requires sacrifice. But in the end it will be found that nature, untrammeled, does her work wisely and well. Those who persevere in obedience to her laws will reap the reward in health of body and health of mind.

Too little attention is generally given to the preservation of health. It is far better to prevent disease than to know how to treat it when contracted. It is the duty of every person, for his own sake, and for the sake of humanity, to inform himself in regard to the laws of life and conscientiously to obey them. All need to become acquainted with that most wonderful of all organisms, the human body. They should understand the functions of the various organs and the dependence of one upon another for the healthy action of all. They should study the influence of the mind upon the body, and of the body upon the mind, and the laws by which they are governed.

We cannot be too often reminded that health does not depend on chance. It is a result of obedience to law. This is recognized by the contestants in athletic games and trials of strength. These men make the most careful preparation. They submit to thorough training and strict discipline. Every physical habit is carefully regulated. They know that neglect, excess, or carelessness, which weakens or cripples any organ or function of the body, would ensure defeat.

How much more important is such carefulness to ensure success in the conflict of life. It is not mimetic battles in which we are engaged. We are waging a warfare upon which hang eternal results. We have unseen enemies to meet. Evil angels are striving for the dominion of every human being. Whatever injures the health, not only lessens physical vigour, but tends to weaken the mental and moral powers. Indulgence in any unhealthful practice makes it more difficult for one to discriminate between right and wrong, and hence more difficult to resist evil. It increases the danger of failure and defeat.

In the warfare in which we are engaged, all may win who will discipline themselves by obedience to right principles. The practice of these principles in the details of life is too often looked upon as unimportant --a matter too trivial to demand attention. But in view of the issues at stake, nothing with which we have to do is small.

Taken from the book Ministry of Healing by E G White, published in 1905. Today, looking and feeling good are a high lifestyle priority. This health classic will tell you how to manage stress, get well, prevent disease, and feel vibrantly alive. Does God have a health care plan for people living today? Is their a link between diet and spiritual growth? Does the Master Physician desire to heal people today as He did in Bible times? These answers and more are contained in this classic, Ministry of Healing. This book was written many years before modern medical practices and is way ahead of its time.
Who is in Control?  
...so many questions

As I have been gathering information for these articles on who’s in control, I can see that the more I examine different subjects, the more I can see how different areas of our society are under attack - from media control to educational dumbing down, from weather manipulation to the multi-billion dollar business of medicine.

I recently heard a report of how a whistle-blower has come forward with documents showing that the Center for Disease Control (CDC) in USA, knowingly engaged in astonishing scientific fraud to cover up links between the MMR (measles, mumps and rubella) vaccine and autism in young Afro-American children.

In the past, anyone who has suggested that vaccines are linked to autism has been attacked by the mainstream media, by the pharmaceutical companies and by the vaccine companies. People who have come out and spoke against these companies have had their careers destroyed, and yet the CDC knew in 2004 that the link between autism and vaccines was really true. Amazingly the CDC retroactively altered the study data to commit fraud.

Now, 10 years down the track, a veteran worker, William Thompson PhD who works with the CDC came out and confessed that he had engaged in fraud in 2004, that he lied to the public about vaccine safety. This recent disclosure said that this vaccine caused harm to Afro-American children. One wonders if they would have gone public if white babies would have been harmed. Thompson was one of the authors of this 2004 report, and now he admits that it was fraud.

After this man, William Thompson confessed that he had lied and was told to omit essential data that confirmed the link, he has now backpedalled, and is not willing to discuss any of these assertions. It seems as if enormous pressure has been placed on him, resulting in him going quiet.

An incredible lie has been told in regard to the safety of vaccines. And this lie is being told over and over again through the media and those who are closely linked to them. Not one mainstream media outlet has reported this story. It is only the internet that is carrying this story.

The vaccine industry in the USA has absolute legal immunity. When someone raises scientific questions about the efficacy of vaccines, why are the vaccine industry so protected? They inject children and pregnant women with a known neurotoxin, mercury, yet they cannot be questioned. Let us consider two points that may answer this question.

1. The medical cartel is so big and it has a vested interest in this.
2. This is warfare against an unsuspecting public. They are injected with vaccines that slowly poison them and they get sick, have long-term chronic illnesses (including autism). This eventually weakens the population and the people become dependent on the establishment. They have been dumbed down and are not likely to ask questions.

Mercury is known to cause neurological damage. It dumbs people down, lowering IQs and cognitive function. Never before have we had such a strong push to have pregnant women vaccinated. In decades past vaccines were not given to pregnant women, yet today, this is pushed by many doctors and medical groups.

Can we ever trust anything that the CDC has told us? What about all the other vaccines that they claim are safe and are given to people? Can we trust anything the CDC has ever said? All those who are interested in natural health will realize that something does not sound right. Even if we believe in the principles of vaccines, why do they add to the vaccines ingredients such as mercury, bovine cow serum, gelatin, egg protein, thimerosal (mercury), formaldehyde, aluminum phosphate and MSG? And why is there such a pro-vaccine push by the media?

It seems more and more obvious to many people that something strange is going on in the world. Some people are labelled as conspiracy theorists. Is there a conspiracy going on? Do the “elite” want to reduce the population in the world? These ideas sound preposterous to those who are not exposed to this information and they live in blissful ignorance. Others consider something is going on but because it becomes too hard to handle, they choose to bury their heads in the sand. Others see it as complete insanity. Who on earth would want to depopulate the earth?

Past articles have dealt with the dumbing down of children in our educational system. We can see how our medical profession has been infiltrated by those with a political agenda. Sickness and cancer is a multi-billion dollar business. We see news reports on how weather patterns have gone crazy in the world. Could it be that weather manipulation is happening around us? Our food and water supplies are being contaminated with chemicals and pesticides. Environmental disasters abound everywhere. The oceans have been polluted. There are threats of pandemic diseases. Mainstream media has become a tool of propaganda and social control. Family life is crumbling, crime is increasing. Government policies and regulations seem to be so out of touch with the people. Countries are in financial trouble. Threats of terrorism are causing new laws to be created.

There are many different reactions to what is going on in the world. From disbelief on one hand to those who are totally absorbed in all these conspiracies. Yet one aspect is seldom discussed, and that is the religious aspect. Most people would have no idea that, according to Bible prophecy, this plays an important part.

What part does religion play? Could this be the rise of the New World Order? And who is behind the New World Order? This has been a dream of many for many decades. But does it go back further than this? Does the Bible actually predict that this will happen?

As I have been endeavoring to write these articles, I would like people to realize that these events that are happening in the world today are not taking God by surprise. He is in total control. Bible prophecy predicts many events that will occur in the “last days”. The Bible predicted a state of Globalism as an end time scenario. Yes, we need to notice that they are going on, but our only hope is to put our trust in the God of the Scriptures. If we understand Bible prophecy correctly, we shall see many more amazing changes in our world. I shall endeavor to continue this theme in forthcoming articles.

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**Recipes**

**VEGETABLE FRITTATA**

3 large capsicums (different colours if possible), halved and seeded
2 onions cut into quarters
1 medium broccoli, cut into flowerets and lightly steamed (or use cauliflower)

**Sauce:**
1 c water
¾ c raw cashews
2 T savoury yeast flakes (optional)
1 T dried onions
300g firm tofu (or use 1 tin drained white beans)
2 cloves garlic crushed
1-2 T cornflour
¼ t turmeric
1 t Celtic sea salt (or to taste)

Place capsicums, skin side up under preheated grill. Cook for 8-10 minutes until charred or blistered. Add onions for last 3-4 minutes. Transfer capsicum into a sealed plastic bag and let stand for 10 minutes. Peel the skin off the capsicum and slice these into strips. Place all vegetables into a baking dish.

Blend sauce ingredients until smooth and the consistency of thick cream. Pour mixture over the vegetables and smooth over the top, making sure that the middle is a little shallower than the sides so it cooks thoroughly.

Bake for 20-25 minutes in 180˚C oven, until the top is lightly golden. Turn off the oven and leave in the oven for a further 10-15 minutes to give it time to set and finish cooking without burning.

Always choose organic tofu as it is possible that GMO soybeans have been used to make many of the other types of tofu on the market.
Back to Eden Health Programs for 2015 - term 2

Back to Eden Health Education will be continuing our health programs for this year but we will have a changed format. This first term is a little busy for us, so not all programs will be offered. For those of you who want to brush up on your natural remedy knowledge, don’t miss these classes. Learn about the Eight Laws of health. Plus, don’t miss the class on fermented foods. All this knowledge will become very valuable to you as you help family and friends. Another very popular class is the vegetarian cooking class.

Please note the dates, times and venues.

**Tuesday morning: Classes will be conducted at**

**Where:** Kaye Sehm’s home  
496 Hague Street  
Lavington NSW 2641

**Dates:**  
Tuesday **5th May**  
Eight Laws of Health that Heal  
Tuesday **19th May**  
Excitotoxins - Food Additives that Kill  
Tuesday **2nd June**  
Kefir, Sprouts and Fermented Foods - practical  
Tuesday **16th June**  
Healing and Detoxing with Herbs and Weeds

**Time:** 10.00 am, cost $5

**Sunday afternoon: Vegetarian Cooking Classes will be held at**

**Where:** Wodong venue  
Contact Bernice for details of venue and dates

You are welcome to attend any of our classes.  
Please book for cooking classes

For more information phone Kaye on 0260255018    Bernice on 0260563919

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**Healthy Lifestyle Classes**

Are you interested in attending our Healthy Lifestyle Classes but are unable to come because you live too far away? Do the specific days we we run our advertised classes suit your schedule? or maybe you go to work?  
We are looking for people who would like to attend classes and are willing to organize a venue (either meeting room, small hall or a home) where we can come to you and run our classes and share our knowledge with you. Your part would be to invite some of your friends and interested people to attend these.  
We have planned a day seminar that will travel to your area. We envisage two classes in the morning that will encompass how to prevent disease, a vegetarian lunch that we will provide, and a class in the afternoon of simple home remedies. These classes will be held from 9.30am to 3pm.  Other formats for night classes will be considered.  
So get talking to your friends and ask them if they would like to attend. We are not looking for large numbers, but we would encourage you to have around 7 - 10 interested participants. A door charge would need to be made to offset some of our travelling and food costs.  
So contact some friends, and book a date. Remember, vacancies are limited, so get in early. We live in the Albury-Wodonga region. How far will we travel? About an hour travelling time, but check with us if you are interested us coming to more distant venues.  
Contact Kaye 0260255018 or email backtoeden@aapt.net.au