



Diabetes is disabling, deadly and on the rise and in certain places has reached fifty percent of local populations.



Intravenous, Transdermal, and Oral Magnesium Mineral Therapy



Research suggests that shortfalls in magnesium

Magnesium Chloride Vs Magnesium Sulfate

According to Daniel Reid, author of The Tao of Detox, magnesium sulfate, commu known as Epsom salts, is rapidly excreted through the kidneys and therefore difficu assimilate. This would explain in part why the effects from Epsom salt baths do not long and why you need more magnesium sulfate in a bath than magnesium chloride tc similar results. Magnesium chloride is easily assimilated and metabolized in the hu body.[i] However, Epsom salts are used specifically by parents of children with au because of the sulfate, which they are usually deficient in , sulfate is also crucial to body and is wasted in the urine of autistic children.

For purposes of cellular detoxification and tissue purification, the most effective forr magnesium is magnesium chloride, which has a strong excretory effect on toxins stagnant energies stuck in the tissues of the body, drawing them out through the pore the skin. This is a powerful hydrotherapy that draws toxins from the tissues, repleni: the "vital fluid" of the cells and restores cellular magnesium to optimum lev Magnesium Chloride is environmentally safe, and is used around vegetation and agriculture. It is not irritating to the skin at lower concentrations, and is less toxic 1 common table salt.

> Magnesium Chloride solution was not only harmless for tissues, but it had also a great effect over leucocytic activity and phagocytosis; so it was perfect for external wounds treatment.

Dr. Jean Durlach et al, at the Université P. et M. Curie, Paris, wrote a paper about relative toxicities between magnesium sulfate and magnesium chloride. They write, " reason of the toxicity of magnesium pharmacological doses of magnesium using sulfate anion rather than the chloride anion may perhaps arise from the respec chemical structures of both the two magnesium salts. Chemically, both MgSO4 MgCl2 are hexa-aqueous complexes. However MgCl2 crystals consist of dianions ' magnesium coordinated to the six water molecules as a complex, [Mg(H2O)6]2+ and independent chloride anion, Cl-. In MgSO4, a seventh water molecule is associated ' the sulphate anion, [Mg(H2O)6]2 +[SO4. H2O]. Consequently, the more hydr MgSO4 molecule may have chemical interactions with paracellular components, ra than with cellular components, presumably potentiating toxic manifestations w reducing therapeutic effect."

MgSO4 is not always the appropriate salt in clinical therapeutics. MgCl2 seems the better anion-cation association to be used in many clinical and pharmacological indications.[ii] Dr. Jean Durlach et al

http://www.magnesiumforlife.com/chloride_sulfate.shtml

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intake can seriously impair athletic performance.

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These researches also studied ionic fluxes in the two directions between the mother the fetus. They found that there was a greater positive effect when MgCl2 was used that MgSO4 could not guarantee the fetal needs in sodium and potassium exchange MgCl2 could. They also found that MgCl2 interacts with all the exchangers in the membrane, while the effect of MgSO4 is limited to paracellular components with interaction with cellular components. Dr. Durlach summarized saying, "MgCl2 inter with all exchangers while the interaction of MgSO4 is limited to paracellular exchang and MgCl2 increases the flux ratio between mother to fetus while MgSO4 decreases it

Chloride is required to produce a large quantity of gastric acid each day and is needed to stimulate starch-digesting enzymes. Using other magnesium salts is advantageous because these have to be converted into chlorides in the body anyway. may use magnesium as oxide or carbonate but then we need to produce additihydrochloric acid to absorb them. Many aging individuals, especially with chrdiseases who desperately need more magnesium cannot produce sufficient hydrochl acid and then cannot absorb the oxide or carbonate.

Sulfate is also important and has an influence over almost every cellular function. Sul attaches to phenols and makes them less harmful, and sets them up for being excr from your kidneys. A lot of these potentially toxic molecules are in food. Sulfate is used to regulate the performance of many other molecules. Many systems in the body not function well in a low-sulfate environment. Sulfur is so critical to life that the t will apparently borrow protein from the muscles to keep from running too low.

Though magnesium sulfate will save your life in emergency situations as quickly easily as magnesium chloride, magnesium chloride fits the bill as a universal mec nutrient. Magnesium sulfate is a close cousin whose effect, form and toxicity demanbe used in special applications when the sulfur is needed.

[i] http://www.hps-online.com/foodprof14.htm

[ii] Magnesium Research. Volume 18, Number 3, 187-92, September 2005, orig article

More on this subject is available in the book Transdermal Magnesium Therapy. <u>F</u> More...

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