

# Carbamide Plus

*"Biotics' carbamide formula has been updated so let's look at this formula and learn how to apply it clinically."*

Some products have a unique application "Niche;" and when you understand that "niche," it's like cutting butter with a hot knife. Recently Biotics Research updated a carbamide formula but as you look at the label, the ingredients might need a little explanation. Let's look at this formula and learn how to apply it clinically.

The formula Carbamide Plus was designed by Harry Eidner in conjunction with Bill Sparks and Biotics Research Corporation. The main ingredient, carbamide or USP urea, is a water soluble, non-toxic substance, naturally produced in the liver. Carbamide is utilized by the body in a number of processes, primarily nitrogen excretion and synthesized by the body as part of the urea cycle.

Besides its role of transporting nitrogen waste, carbamide plays a critical role in the re-absorption of water and key minerals from excreted urine. This mecha-



nism is important for hydration and the maintenance of healthy blood pressure.

But another important aspect of carbamide is that it reduces the electrical conductivity of water. You might think of removing the static electricity from the fluids so they don't stick together and can move "more easily" through membranes. This increases the rate of fluids transferring across the cell membranes of patients with edema. This process will denature the proteins that may be impairing or blocking healthy fluid exchange. The

result is a release of free calcium phosphate into the blood which reacts with sodium bicarbonate to provide calcium bicarbonate an important blood buffer.

I often discuss how we want to utilize multiple strategies to reduce relative acidity. Increasing the body's ability to buffer metabolic acids can have major effects on many physiological functions. Remember, relative acidity can have major effects on homeostasis. Relative acidity can increase bone resorption, create immune and blood sugar dysregulation, increase inflammation and

reduce the effectiveness of hormones, enzymes and cytokines.

Carbamide Plus is ideal for patients with fluid retention or edema as most diuretics on the market will cause potassium depletion and the reduction of systemic stores of thiamine.

Most of you are aware that prescription diuretics deplete minerals as well as thiamine. Want a simple way to evaluate fluid retention? Dr. Owen Miller taught me years ago to roll your patients socks down and look for edema on every patient. If it's showing up on the legs it is probably occurring in other parts of the body as well. Edema will generally respond if we can find ways to increase healthy fluid exchange across cell membranes.

Another factor to consider when discussing healthy cell membrane exchange comes to us from the book Your Body's Many Cries for Water by Dr. Batmaghelidj. He shows how dehydration changes the electrical conductivity of water making cellular exchange more difficult. By drinking pure water we enhance the electrical structure of fluids surrounding cells. Using carbamide, however, we go a step further in the process. Think of Carbamide Plus whenever there is an unhealthy pressure gradient.

Besides edema, another example of a dysfunctional pressure gradient would be ocular pressure or glaucoma. With glaucoma there is a fluid build up behind the iris causing pressure. In most cases of glaucoma, this pressure is high and causes damage to the optic nerve. The goal of pharmacological treatment is to reduce intraocular pressure. Considering our discussion, Carbamide Plus with Optic Plus enhances the electrical conductivity of water and other fluids and may reduce ocular pressure or glaucoma.

Two other conditions involve pressure gradients. Dr. Goodheart often used carbamide with spinal disc problems. Dr. Shea, one of the leading experts in Meniere's disease called Meniere's, "Glaucoma of the ear."

Another important ingredient in Carbamide Plus is enzymatically processed organic beets. Beets are high in betaine and trimethylglycine which serve as universal methyl donors. Red beet pigments represent a class of flavanoids called anthocyanidins. These flavanoids possess marked antioxidant properties. Beets are classically used to enhance biliary function and provide liver support.

Chinese medicine tells us if the liver is not functioning properly the kidneys have to pick up the slack. So by enhancing or supporting the liver, we take some of the pressure off the kidneys.

Looking at a summary of ingredients, Carbamide Plus is a combination of carbamide (USP urea), herbal diuretics and enzymatically processed organic beets, Tillandsia (Silver Spanish Moss), rice bran along with molasses, amino acids, vitamins and minerals, SOD and catalase. You can see the link below for other subtleties of the ingredients, dosages and clinical considerations; but I just wanted to give you an update about this useful "niche" product.

It's likely that the treatment of disease and ultimately the enjoyment of wellness in the future may focus more on the electromagnetic properties of the fluid surrounding each cell. It's an interesting topic to explore, and Carbamide Plus is a great tool to consider when you have that patient who is not responding to your normal therapeutic interventions.

Thanks for reading this week's edition. I'll see you next Tuesday.