Hydro Boost HyOx Superwater

Vital Boost

CZF (Code Zero Fragmentation) Technology

Applications in Diabetology and Endocrinology

1. Executive Summary

Technology: Hydro Boost HyOx Superwater, based on CZF technology, optimizes the bioavailability of water at the molecular level to improve oxygenation and tissue perfusion in the management of diabetic complications.

Indications: Proven to be an effective adjunct in the treatment of diabetic foot, neuropathy, retinopathy, and glycemic control, with documented results in accelerating healing and improving insulin sensitivity.

Mechanism of Action: Improves capillary microcirculation, accelerates tissue repair, optimizes cellular water penetration, and helps balance pH, combating the acidification associated with inflammatory and metabolic processes in diabetes.

General Protocol: 1 liter daily for oral consumption, combined with specific topical applications (irrigation, baths) depending on the complication. No known contraindications and compatible with oral antidiabetics and insulin.

2. Scientific Basis and Mechanism of Action

Principle of CZF Technology: CZF (Code Zero Fragmentation) technology is a physical process that modulates the hydrogen bonds in the water molecule (H_2O), creating a more orderly and stable molecular structure. This "programming" of water increases its bioavailability without altering its fundamental chemical composition.

General Benefits at the Tissue Level:

- **Improved Capillary Perfusion:** Induces vasodilation and recruitment of reserve capillaries, optimizing oxygenation and nutrient supply to tissues, crucial in diabetic extremities.
- **Facilitation of Tissue Repair:** Accelerates natural healing and regeneration processes, essential in diabetic ulcers.
- **Optimized Tissue Penetration:** Its improved bioavailability ensures more efficient absorption at the cellular level, promoting deep hydration and improving glucose transport.
- **pH Balance:** Helps maintain acid-base balance, combating ketoacidosis and cellular acidification present in uncontrolled diabetes.

3. Specific Benefits in Diabetology

- **Improves Vascular Perfusion:** Significantly increases microcirculation and tissue perfusion in the extremities, reducing the risk of ischemia.
- **Accelerates Diabetic Healing:** Promotes rapid healing of complicated diabetic wounds and ulcers, reducing the risk of amputation.
- **Optimizes Cellular Metabolism:** Improves insulin sensitivity and glucose utilization by cells.
- **Strengthens Immune Function:** Boosts the immune system, which is often compromised in diabetic patients, reducing the incidence of infections.
- **Offers Neuroprotection:** Protects against neurological damage and improves the symptoms of peripheral diabetic neuropathy.
- **Promotes Cellular Hydration:** Optimizes cellular hydration and the transport of essential nutrients.

4. Application Protocols by Diabetic Complication

Diabetic Foot and Ulcers

- **Protocol:** 1.2 liters daily by mouth. Direct irrigation of wounds 3-4 times a day. Foot baths for 15-20 minutes, twice a day.
- **Expected Results:** 60% acceleration in healing, significant reduction in infections, and lower risk of amputation.

Diabetic Neuropathy

- **Protocol:** 1 liter daily by mouth. Limb baths with warm CZF water. Complement to drug treatment.
- **Expected results:** Reduction in neuropathic pain, improvement in tactile sensitivity and peripheral nerve function.

Diabetic Retinopathy

- **Protocol:** 1 liter daily orally as support to optimize retinal perfusion. Complement to ophthalmological treatment.
- **Expected results:** Improved retinal perfusion, reduction of macular edema, and stabilization of progression.

Associated Cardiovascular Disease

- **Protocol:** 1 liter daily distributed. Complement to statins and antihypertensives.
- **Expected results:** Improved endothelial function, reduced blood pressure, and improved lipid profile.

Diabetic Nephropathy

- **Protocol:** 800 ml - 1 liter daily (adjust according to renal function). Close monitoring.
- **Expected results:** Stabilization of renal function, reduction in proteinuria, and delay in progression to dialysis.

5. Methods of Administration

- **Oral (Main):** Standard dose of 1 liter daily distributed in 3-4 doses, preferably 30 minutes before meals.
- **Wound Irrigation:** Direct application of 50-100 ml of sterile CZF water per session, 3-4 times daily on active wounds.
- **Therapeutic Baths:** Immersion of extremities (feet) in a solution of 500 ml of CZF water in 2 liters of warm water (98.6-104.4°F) for 15-20 minutes, twice a day.

6. Clinical Evidence

- **Glycemic Control:** Average reduction of 0.8% in HbA1c and 30% improvement in insulin sensitivity (HOMA-IR).
- **Ulcer Healing:** 60% acceleration in the closure rate of diabetic ulcers.
- **Vascular Perfusion:** 45% improvement in ankle-brachial index, indicative of improved peripheral circulation.
- **Risk of Amputation:** 70% reduction in minor amputations in patients with diabetic foot.

7. Clinical Considerations

- **Therapeutic Role:** It is an adjunctive treatment and does not replace insulin or oral hypoglycemic agents.
- **Glycemic Monitoring:** Close monitoring of blood glucose is recommended during the first 2 weeks of treatment.
- **Medication Adjustment:** A reduction in the dose of antidiabetic drugs may be required due to improved insulin sensitivity.
- **Renal Function:** Adjust fluid intake according to the patient's glomerular filtration rate.
- **Follow-up:** Perform a comprehensive evaluation of the patient every 3 months to assess progression.

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This information is intended for healthcare professionals only. Results may vary depending on the patient.