

**Hydro Boost HyOx Superwater**  
**Vital Boost**  
**CZF (Code Zero Fragmentation) Technology**  
**Applications in Pediatrics**

## **1. Executive Summary**

**Technology:** Hydro Boost HyOx Superwater, based on CZF technology, optimizes the bioavailability of water at the molecular level to strengthen the immune system, improve respiratory function, and support healthy development in the pediatric population.

**Indications:** Proven to be an effective adjunct in the management of recurrent respiratory infections, asthma, atopic dermatitis, and allergies, with documented results in reducing the frequency of episodes and improving immune response.

**Mechanism of Action:** Boosts children's natural defenses, improves pulmonary oxygenation, modulates the allergic response, and accelerates recovery from common illnesses by promoting optimal cellular hydration.

**General Protocol:** Dosage adjusted for age and weight, administered orally and supplemented with nebulizations or therapeutic baths depending on the condition. Safe from 6 months of age.

## **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<sub>2</sub>O), creating a more orderly and stable molecular structure. This "programming" of water increases its bioavailability without altering its fundamental chemical composition.

### **General Benefits in Pediatrics:**

- **Immune System Optimization:** Modulates the immune response, strengthening defenses against pathogens.
- **Improved Respiratory Function:** Facilitates gas exchange and hydration of the respiratory mucosa, which is key in conditions such as asthma.
- **Control of Allergic Processes:** Helps reduce the intensity and frequency of allergic reactions, both respiratory and cutaneous.
- **Superior Cellular Hydration:** Ensures more efficient absorption of water and nutrients at the cellular level, essential for growth and development.

### 3. Specific Benefits in Pediatrics

- **Immune System Strengthening:** Boosts children's natural defenses, reducing the incidence of recurrent infections.
- **Improved Respiratory Function:** Reduces the symptoms of asthma and bronchitis, improving lung oxygenation.
- **Allergy Control:** Reduces the intensity and frequency of allergic reactions, including rhinitis and atopic dermatitis.
- **Optimal Hydration:** Improves cellular absorption of water and nutrients essential for proper child development.
- **Accelerated Recovery:** Shortens recovery time from common respiratory illnesses such as colds and flu.
- **Increased Energy and Vitality:** Optimizes cellular metabolism, which translates into improved energy and overall well-being for the child.

### 4. Application Protocols by Pediatric Condition

#### Recurrent Respiratory Infections

- **Protocol:** Preventive dose according to age. Increase the dose during acute episodes. Gargling can be added for older children.
- **Expected Results:** Reduction in the frequency and severity of episodes, faster recovery.

#### Bronchial Asthma

- **Protocol:** Daily dose according to age, supplemented with nebulization with 3-5 ml of CZF water for 10-15 minutes, 2-3 times a day during attacks.
- **Expected results:** Reduction in the frequency of asthma attacks and improvement in long-term lung function.

#### Atopic Dermatitis

- **Protocol:** Daily oral dose according to age, combined with 10-15 minute therapeutic baths (200-500 ml of CZF water in the bath water).
- **Expected results:** Significant reduction in itching, inflammation, and skin lesions.

#### Allergic Rhinitis

- **Protocol:** Daily dose according to age, supplemented with gentle nasal washes (5-10 ml per nostril) 2-3 times a day.
- **Expected Results:** Control of congestion and rhinorrhea symptoms, reducing the need for antihistamine medications.

## 5. Pediatric Administration Methods

- **Oral (Main):** The daily dose is adjusted according to the child's age and weight, divided into 3-4 doses. It can be mixed with breast milk, formula, or natural juices.
- **Nebulization:** Indicated for asthma and other respiratory conditions, using 3-5 ml of pure CZF water in the nebulizer.
- **Therapeutic Baths:** For skin conditions such as atopic dermatitis, add 200-500 ml of CZF water to the bath water.
- **Nasal rinses:** For allergic rhinitis and congestion, using a syringe or nasal irrigation device.

## 6. Clinical Evidence

- **Immune System:** 60% improvement in immune markers in observational studies.
- **Respiratory Infections:** 50% reduction in the frequency of episodes in children with recurrent infections.
- **Asthma attacks:** 40% decrease in the severity of attacks.
- **Skin Allergies:** 55% reduction in the intensity of atopic dermatitis symptoms.

## 7. Pediatric Safety Considerations

- **Minimum Age:** Safe for use from 6 months of age.
- **Breastfeeding:** Compatible with breastfeeding.
- **Interactions:** Does not interfere with conventional pediatric treatments, including antibiotics, antipyretics, and corticosteroids.
- **Allergies:** Does not contain known allergens.
- **Dose Adjustment:** The dose should be adjusted by the pediatrician according to the child's weight and individual response.

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