

IALOCLEAN®

ADVANCED MUCOSAL BARRIER PROTECTION

Respiratory mucosal barrier health

A non-pharmacological approach supporting the airways health all year round



CE 1282



CE 0477



CE 0373



CE 0477



FARMA · DERMA

Everyday challenges for the respiratory mucosa in winter and beyond

1 ENVIRONMENTAL CHANGES & RISING RESPIRATORY RISK

The World Health Organization (WHO) in 2025 highlighted that air pollution, climate change and pollen exposure are increasing globally, exacerbating inflammation and respiratory diseases worldwide¹.

By 2050 up to 50% of the global population (~4 billion people) **could suffer from allergic diseases**¹



POLLUTION



DRY AIR



ALLERGENS



RHINITIS

2 IMPACT ON RESPIRATORY MUCOSA

Air pollutants, both indoor and outdoor, **impair the respiratory epithelial barrier**, facilitating allergen penetration and inflammatory responses^{2,3}

As the respiratory tract functions as one integrated system, **upper airway damage can contribute to lower airway disease**⁴.

3 WHY MUCOSAL PROTECTION MATTERS

Protecting the nasal mucosa – **the first line of respiratory defense** – is therefore critical to help maintain airway integrity and support overall respiratory health^{1,5}.

In this context, supporting and **protecting the upper airways' mucosa** becomes a key strategy to help **defend the respiratory system** from **environmental challenges**.

1. World Health Organization (2025). Climate change, air pollution, pollen and health: Science and policy snapshots on air quality, energy and health. Geneva: WHO.
2. Kanjanawasee, D., et al. (2025). Role of air pollution in rhinitis. *Exploration of Asthma & Allergy*.
3. AAAAI Work Group (2025). Impact of climate change on aerobiology, rhinitis and allergen immunotherapy. *Journal of Allergy & Clinical Immunology: In Practice*.
4. D'Amato, G., et al. (2015). Meteorological conditions, climate change and asthma and related allergic disorders. *World Allergy Organization Journal*.
5. Burbank, A. J. (2025). Climate change and the future of allergies and asthma. *Current Allergy and Asthma Reports*, 25(1), 20.

Advanced Mucosal Barrier Protection

Barrier-based respiratory support inspired by mucosal physiology

With over 15 years of expertise in **non-pharmacological respiratory care**, **IALOCLEAN®** is a medical devices' line designed to support the physiological function of the upper and lower airways, helping **maintain mucosal integrity and functionality** without pharmacological action.

Synergistic activity of a complex of 3 complementary ingredients:

HIGH MOLECULAR WEIGHT HYALURONIC ACID

Film-forming properties to protect
the respiratory mucosa



N-ACETYLCYSTEINE (NAC)

CHAMOMILE EXTRACT

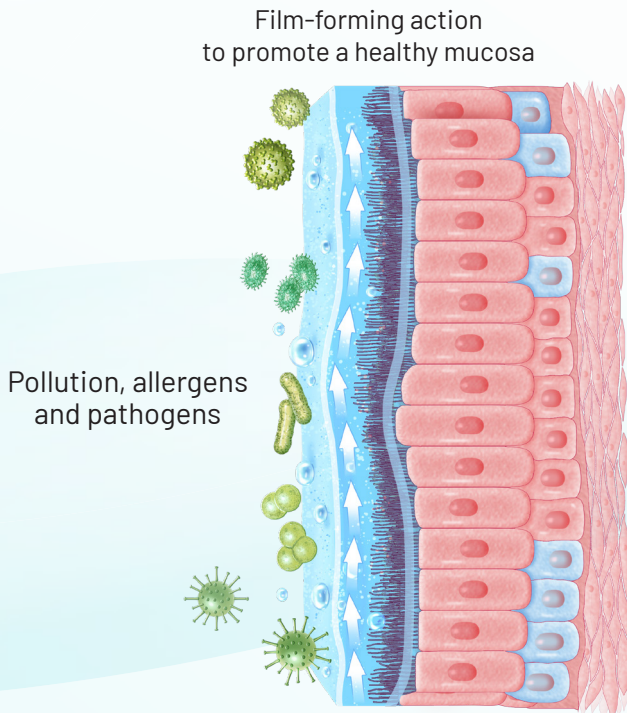
- › **360° treatments** for respiratory diseases
- › **All-year-round** respiratory disorders
- › **Synergistic therapeutic action**, suitable for complementary use with pharmacological therapies***
- › Suitable for **repeated use**
- › Suitable for **adults** and **children** (2+)

*** After consulting the doctor

Protecting the mucosal barrier means protecting *the entire respiratory system*

IALOCLEAN® is designed to promote a hydrated, protected, and functional respiratory mucosa:

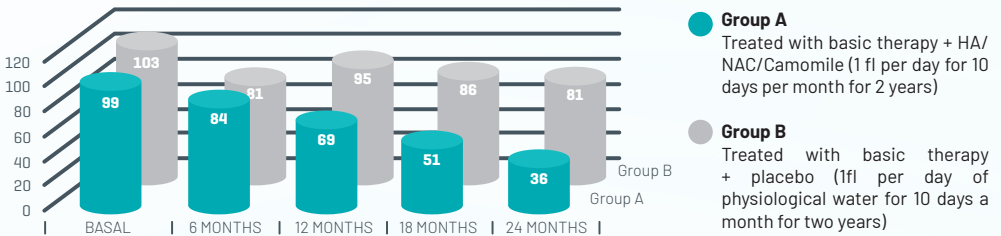
- ✓ Restores physiological hydration of mucosa, promoting **effective mucociliary clearance**
- ✓ Helps hydrate for easier **removal of dense mucus**
- ✓ Strengthens **mucosal barrier function**
- ✓ Helps defend against **environmental stressors**
- ✓ Helps **reduce mucosal inflammation**



Clinical practice evidence

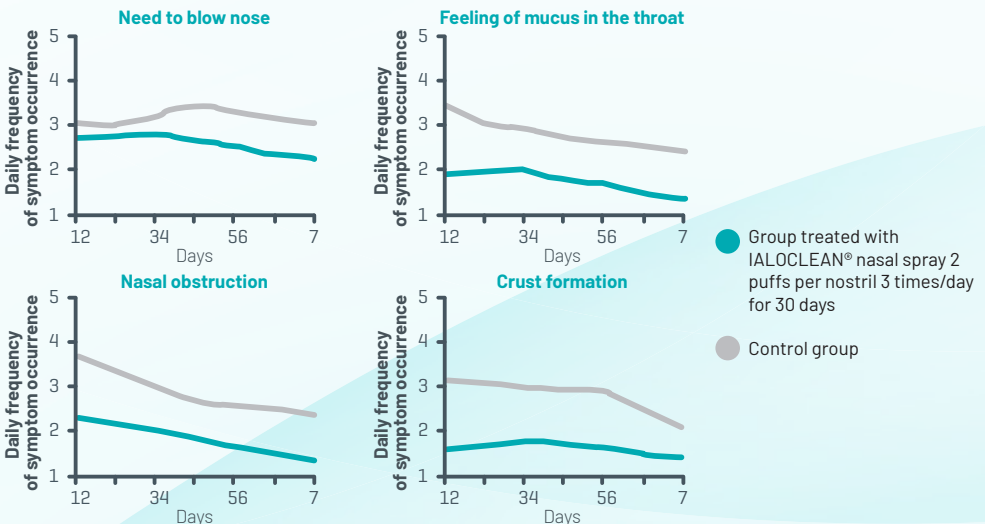
CHRONIC COUGH (COPD)

Aerosol therapy with hyaluronic acid, NAC, and chamomile in COPD patients (GOLD stage III-IV) shows significant therapeutic efficacy. Cyclic treatment significantly **reduces the impact of chronic cough** on quality of life and decreases flare-up events.



POST-SURGICAL SYMPTOMS

Evaluation of IALOCLEAN® nasal spray in patients after functional nasal septum surgery shows maintenance of nasal cavity patency through **mucus elimination, reduction of nasal dryness, and decreased crust formation.**





STERILE NEBULISATION SOLUTION

INDICATIONS: Indicated as an adjunctive treatment for respiratory tract diseases such as: tonsillitis, laryngitis, pharyngitis, rhinitis, tracheo-bronchitis and bronchitis, both in the acute and chronic phases; hoarseness; inflammation of vocal cords with or without dysphonia; cough of irritative, postviral nature or due to environmental pollutants; flu or cold syndromes; after-effects of ENT surgeries; consequences of extra-oesophageal manifestations due to gastric reflux in the upper respiratory tract (dysphagia, chronic laryngitis and pharyngitis, aphonia, persistent cough).

COMPOSITION: Hyaluronic acid sodium salt, chamomile extract, EDTA, N-acetylcysteine, sodium chloride, sodium hydroxide, sodium phosphate monobasic dihydrate, sodium phosphate dibasic heptahydrate, water.

INSTRUCTIONS FOR USE: Adults and children over 6 years of age: one single-dose container per session, twice daily. Children aged 2-6 years: half the contents of one single-dose container per session, twice daily. Dilute with physiological saline solution in a 1:1 ratio. Use with aerosol therapy devices with piston compressors only (do not use ultrasonic nebulisers).

PACKAGING: 15 single-dose containers of 2 ml each.

PATENTED FORMULA**

CE 0373



OROPHARYNGEAL MUCOSA SPRAY

INDICATIONS: Indicated as an adjunctive treatment of respiratory tract diseases due to oropharyngitis both in the acute and chronic phase, flu or cold syndromes, gastric reflux.

COMPOSITION: Hyaluronic acid sodium salt (0.5 mg/ml), chamomilla dry extract, N-acetylcysteine, sodium benzoate, potassium sorbate, glycerin, sodium saccharin, citric acid, arginine, mint flavor, water.

INSTRUCTIONS FOR USE: Adults: three or four sprays up to 5 times a day. Children from 2 years of age: two or three sprays up to 4 times a day. It is necessary to not ingest food, drinks or anything else immediately after the use of the product. The duration of use depends on the evolution of symptoms; IALOCLEAN® spray for oropharyngeal mucosa can be used until their complete resolution.

PACKAGING: 30 ml glass bottle with spray dispenser.

PATENTED FORMULA**

CE 0477



NASAL SPRAY

INDICATIONS: Indicated as an adjunctive treatment for irritative and inflammatory states of the nasal mucosa due to rhinitis, sinusitis, colds or environmental pollution.

COMPOSITION: Hyaluronic acid sodium salt (0.5 mg/ml), chamomilla dry extract, N-acetylcysteine, sodium benzoate, potassium sorbate, glycerin, sodium saccharin, arginine, mint flavor, water.

INSTRUCTIONS FOR USE: Adults: two sprays in each nostril 3-4 times a day. Children from 2 years of age: one spray in each nostril 3-4 times a day. It is necessary to not blow the nose immediately after the use of the product. The duration of the use depends on evolution of symptoms; IALOCLEAN® nasal spray can be used until their complete resolution.

PACKAGING: 30 ml glass bottle with spray dispenser.

CE 0477



OROSOLUBLE TABLETS

INDICATIONS: Indicated as an adjunctive treatment of: respiratory tract diseases due to oropharyngitis both in the acute and chronic phases, flu or cold syndromes, gastric reflux; stomatitis and ulcers of the oral cavity of different origin.

COMPOSITION: Hyaluronic acid sodium salt, chamomile dry extract, aloe vera gel, sorbitol, xylitol, mono- and diglycerides of fatty acids, talc, sodium benzoate, vegetable magnesium stearate, N-acetylcysteine, silicon dioxide, blood orange flavor, strawberry flavor.

INSTRUCTIONS FOR USE: Adults and children from 6 years of age: slowly dissolve one tablet in the mouth every 2-3 hours, up to a maximum of 6 tablets per day. The tablets must not be swallowed, chewed, or dissolved in water. The duration of the use depends on the evolution of symptoms; if necessary, in order to improve, IALOCLEAN® orodispersible tablets can be taken for prolonged periods.

PACKAGING: 30 orosoluble tablets of 1.2 g each.

PATENTED FORMULA**

CE 1282



ORAL SUSPENSION

INDICATIONS: IALOCLEAN® Oral Suspension is a food supplement with Eucalyptus Honey, Chamomile, Drosera, Grindelia and Hyaluronic Acid. Chamomile supports the functionality of the respiratory tract mucosa, Drosera promotes the fluidity of bronchial secretions and Grindelia supports the functionality of the upper respiratory tract. Drosera and Grindelia also have an emollient and soothing action on the oropharyngeal mucosa.

DAILY DOSE AND METHOD OF USE: Adults: 10 ml twice daily. Children over 3 years of age: 5 ml twice daily. Shake before use. Once opened, use the product within three months.

PACKAGING: 200 ml bottle with measuring cup.

FLAVOUR: Sour cherry.



OROSOLUBLE POWDER

INDICATIONS: IALOCLEAN® Difesa is a food supplement with *Lactobacillus plantarum*, hyaluronic acid, and vitamin B6. *Lactobacillus plantarum* helps maintain the balance of the intestinal microbiota, while vitamin B6 supports normal immune system function. GLUTEN FREE and NATURALLY LACTOSE-FREE.

INGREDIENTS: Sweetener: xylitol; corn starch; flavouring; *Lactobacillus plantarum* DSM 6595; anti-caking agent: silicon dioxide; sodium hyaluronate; vitamin B6 (pyridoxine hydrochloride).

DAILY DOSE AND METHOD OF USE: IALOCLEAN® Difesa is an orosoluble powder to be dissolved directly in the mouth. The recommended intake is 1 stick pack per day, preferably in the evening before bedtime.

It is advisable not to consume food, beverages, or other products after taking the product.

PACKAGING: 14 stick packs of 1.2 g each.

*Some MDR certified and some ready-for-MDR

**Patent registered in some EU Countries and non-EU