

Propionate Nasal Spray



URSATEC
WHEN PRESERVATIVE FREE MATTERS®

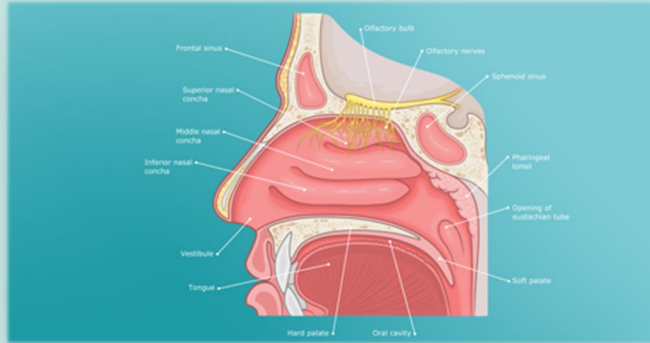
Introducing Propionate Nasal Spray | A New Class Of Nasal Spray



When suffering of
congested nose



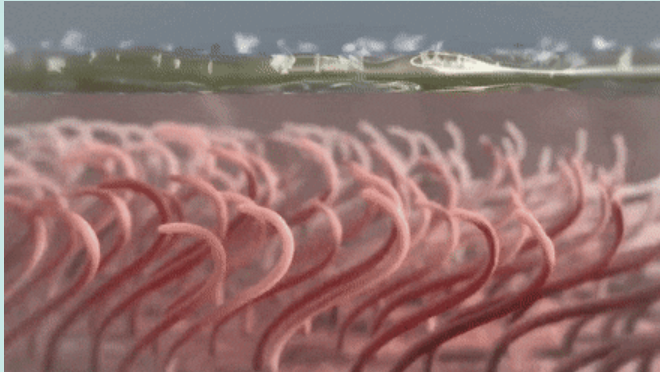
About the Nose



The respiratory (air passage) region, which makes up most of the nasal cavity, is covered with cells that have cilia and cells that produce mucus (goblet cells).

The mucus in the nasal cavity consists of two layers:

- 1 An upper layer that is somewhat sticky and tacky and can capture small particles and foreign objects in the air
- 2 A lower, looser layer that allows the cilia to move in an orderly manner.
The cilia transport the mucus layer toward the nasopharynx at a speed of 1-2 cm per minute, preventing the mucus from accumulating.



Congested nose

= Inflammation (rhinitis)

- Non-allergic

Upper respiratory tract infection

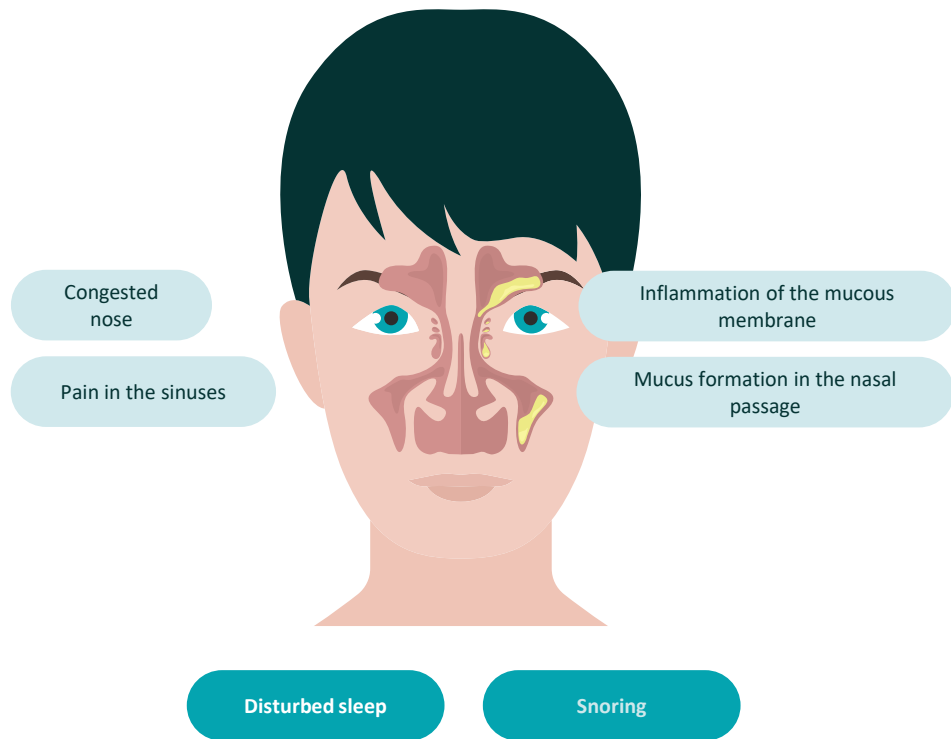
- Viral
- Bacterial

- Non-infectious

- Allergy-like reactions that are not allergies. Reactions to various chemical substances such as air pollution, perfumes, spices, medications, hormones.

- Vasomotor rhinitis.

- Allergic



What is Propionate nasal spray?



01

For effective relief of nasal congestion and treatment of non-specific nasal discomfort.

02

Cleanses and supports the function of the nasal mucosa.

03

Can improve breathing through the nose after just 5-10 minutes.

How does Propionate Nasal Spray work?

- **Locke-Ringer's solution** is specially formulated to mimic the ionic composition of extracellular fluid in animals and humans*
- **Sodium propionate** optimizes the ionic strength of the solution, thereby supporting the optimization of physical-chemical conditions in the mucous membrane

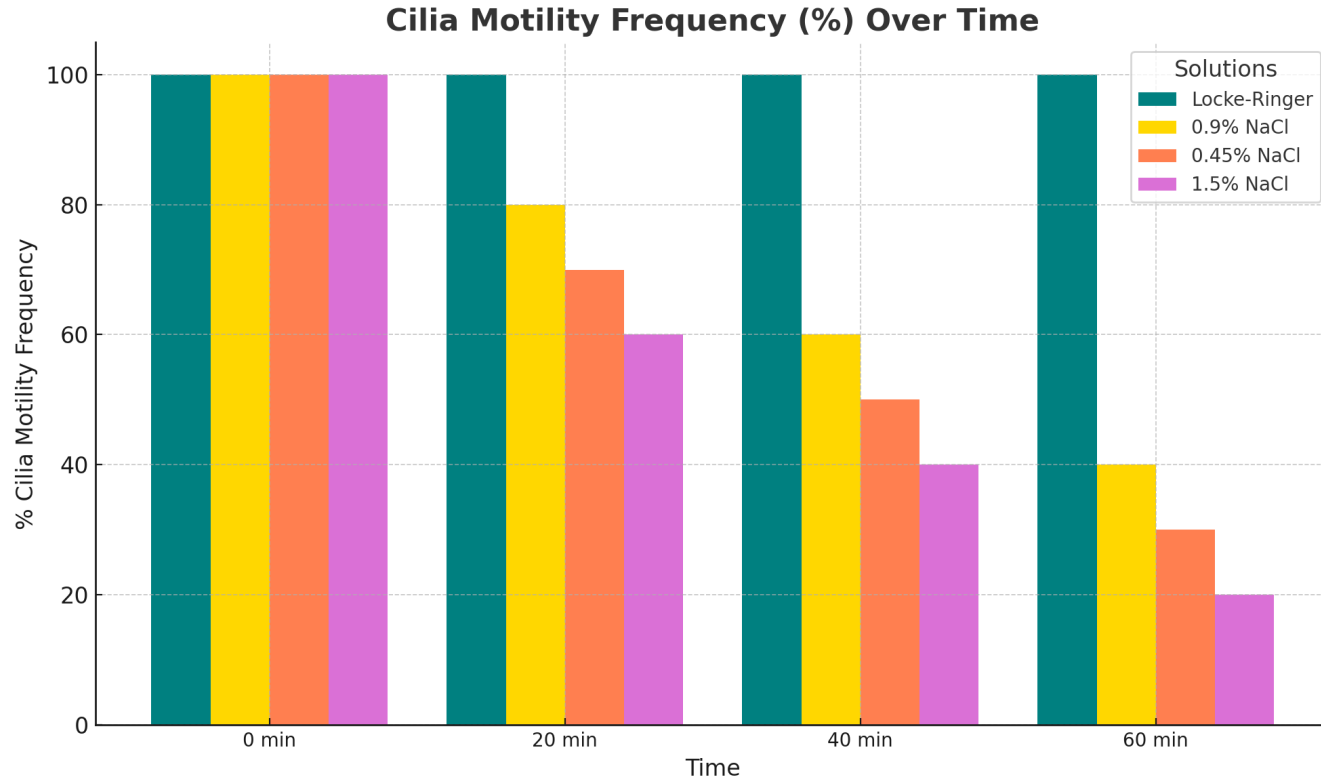


Maintain/restore physiological normality, with regard to:

- Enzyme activity
- Barrier function
- Microbial flora
- Ion transport and fluid balance
- Inflammatory response

* sodium chloride, potassium chloride, calcium chloride, and bicarbonate, as well as dextrose and water.

Effect of Locke-Ringer vs. saline on cilia function



What are the patient/user experiences?

- Protection and preservation of the nasal mucosa (with sodium propionate)
- Improvement of mucociliary clearance of the nasal mucosa (with Locke-Ringer solution)
- Mucosal decongestant effect due to hypertonicity (with Locke-Ringer solution + sodium propionate)



Why Choose Propionate Nasal Spray Over Others?



PROUD ANS- Study

Do you suffer from
a stuffy nose?
and are addicted
on nasal spray?

Then you can participate in a clinical study
where we are testing a nasal spray
(medical device) that may help you stop
using addictive nasal sprays.



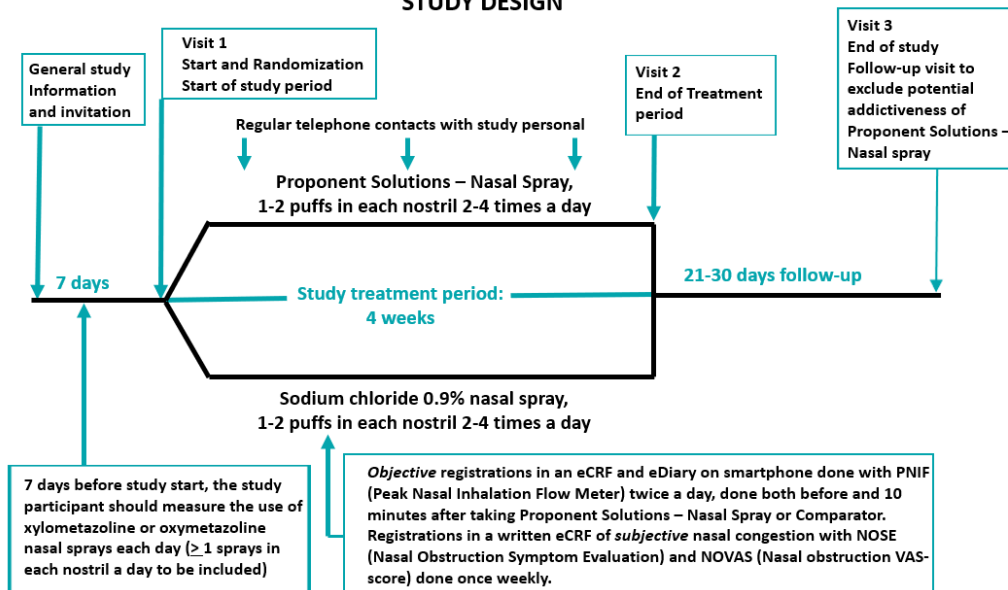
Are you interested in signing up to participate in the
nasal spray study?

[Click here to register](#)



PROUD ANS- Study

STUDY DESIGN



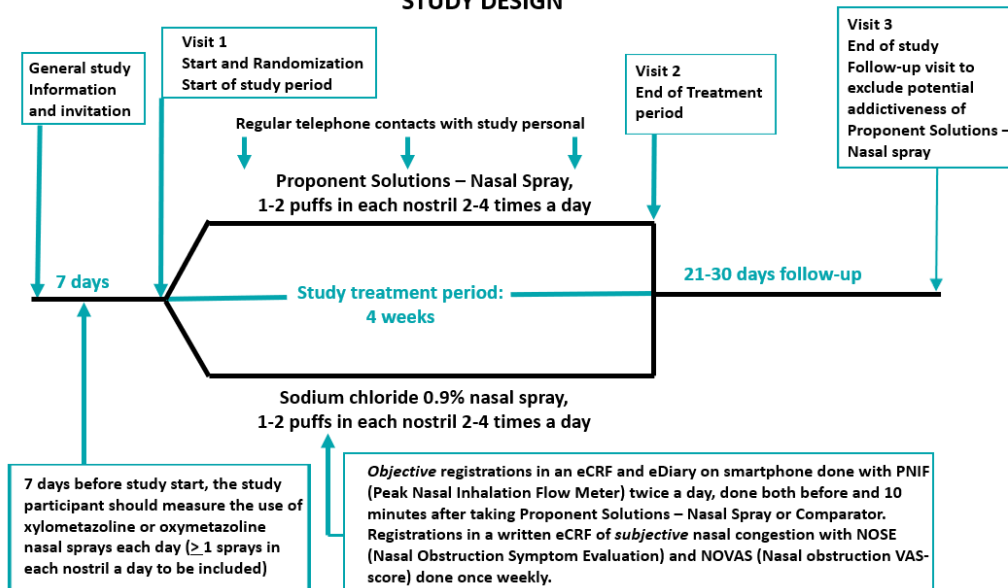
PROUD ANS-Study

Number of patients:
N = 194

Median time using
vasoconstrictors:
14 years

Median dosage: 10/day

STUDY DESIGN



PROUD ANS- Study

Conclusions:



REDUCTION OF
EXCESSIVE USE OF
VASOCONSTRICTORS



INCREASE IN AIRFLOW
THROUGH THE NOSE

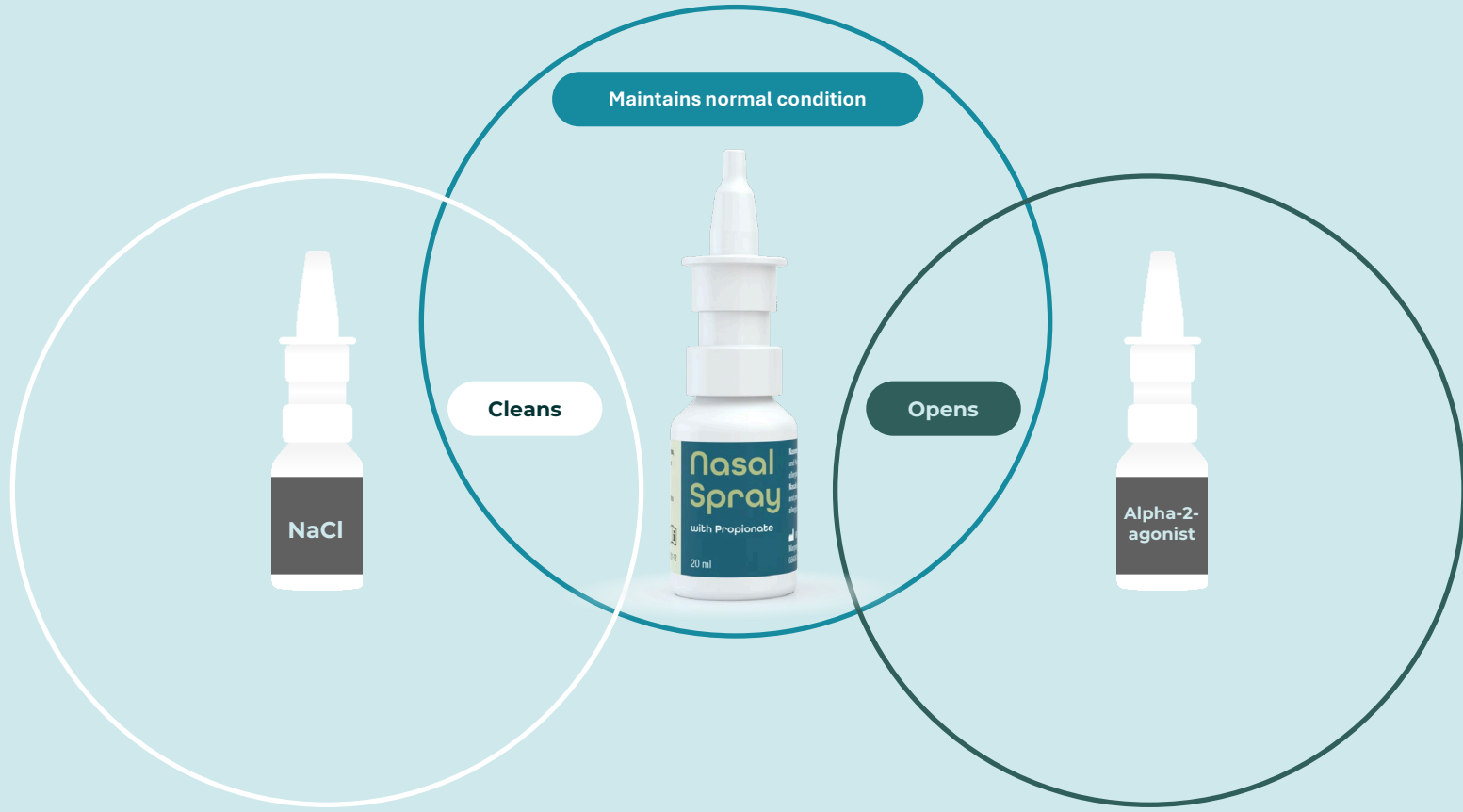


NO DRYNESS IN THE NOSE



DOES NOT CREATE ANY
DEPENDENCE

Propionate Nasal Spray fills a gap in the provision of care for patients with nasal congestion



Propionate Nasal Spray – A Natural First Choice For Patients With Nasal Congestion



Properties of nasal spray*	Isotonic saline solution	Hypertonic saline solution	Vasoconstrictor	Propionate
Opening a blocked nose	No	+	+++	++
Effect of cilia function	-	--	Damages mucosal cells with prolonged use	++
Cleaning the nasal mucosa	+	+	No	++
Time to open a stuffy nose	No	Unknown	1-5 minutes	5-10 minutes
Risk of dry nose/irritation	No	High	Very high	No
Risk of nose bleeds	No	Yes	Yes	No
Risk of addiction	No	No	Very high	No



Nasal spray dependency causes damage to the nasal mucosa. When switching to Propionate Nasal Spray to quit, the patient will not notice any particular subjective opening of the nose at first. Propionate Nasal Spray cleanses the nose and optimizes the conditions in the nasal mucosa for opening the nose, but this does not happen as quickly with damaged nasal mucosa. You must be patient when weaning yourself off the spray.

Dosage

- **Adults and children > 2 years:** 1-2 doses in each nostril, as needed and up to 4 times daily.
- **Children ages 1-2 years:** 1 dose in each nostril, as needed and up to 3 times daily.
- **During pregnancy – we refer to information on RELIS*:**

Conclusion: Sodium propionate nasal spray is a hypertonic nasal spray containing Locke-Ringer solution and sodium propionate. We find no evidence that either Locke-Ringer solution or sodium propionate is harmful to pregnant women or fetuses.



*Relis.no, publisert 14.10.24, spm.nr. 17077.

*https://relis.no/about_relis

Questions?

Are you interested in receiving further information on our finished products? Please contact us directly!



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