

# elénzia MEDICAL

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**Imunoglukan** P4H<sup>®</sup>

Immune Health  
Support For Children

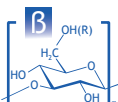
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## About Us

At elénzia MEDICAL, we are dedicated to our core values of science, efficacy, and wellness, offering scientifically supported products with clinically proven ingredients that promote health and vitality for every generation.

We thrive on improving the lifestyle of our community and their loved ones. That is why, as the sole UK and Ireland distributor of Imunoglukan P4H<sup>®</sup>, elénzia MEDICAL is committed to provide healthcare professionals and pharmacists access to this proven supplement.

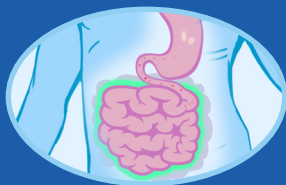
## What is Imunoglukan<sup>®</sup>?



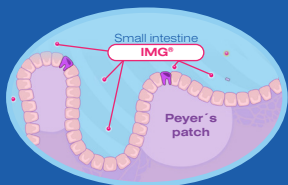
IMG<sup>®</sup> / IMUNOGLUKAN<sup>®</sup>



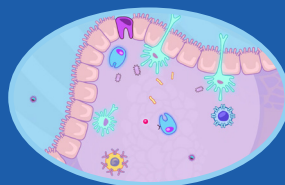
complex of biologically active polysaccharides (BAP) that consists in beta-1,3/1,6-D-glucan **pleuran** isolated from *Pleurotus ostreatus* by patented technological process



IMG<sup>®</sup> is insoluble, indigestible and it passes unchanged into the small intestine.



IMG<sup>®</sup> activates immune cells in the Peyer's patches without absorption into the blood circulation.



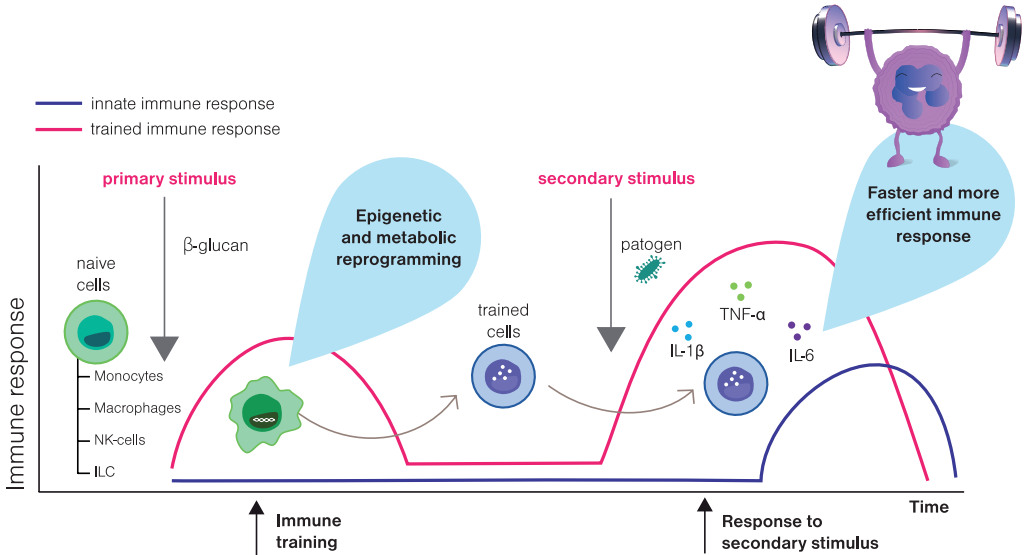
Activated immune cells migrate through the mucosa-associated lymphoid tissue within the whole body.

**IMG<sup>®</sup> activates cells and mechanisms of innate and adaptive immunity**

Spriet I., al. No interference of the 1,3-β-D-glucan containing nutritional supplement ImunixX with the 1,3-D-glucan serum test. *Mycoses* 2011;54(5):e352-353.

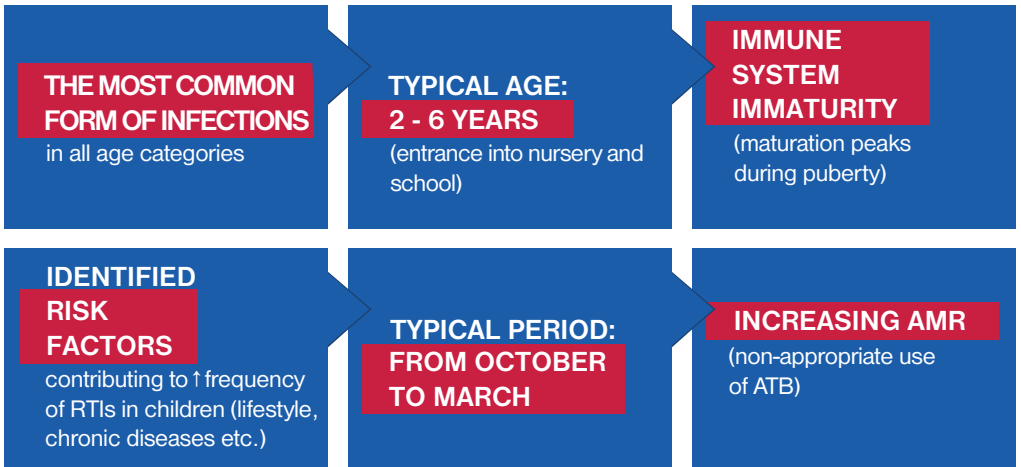
Karacsonyi S., Kuniak L. Polysaccharides of *Pleurotus ostreatus*: isolation and structure of pleuran, an alkali insoluble Beta-D-glucan. *Carbohydr Polym* 1994; 24:107-111.

# PHENOMENON OF TRAINED IMMUNITY

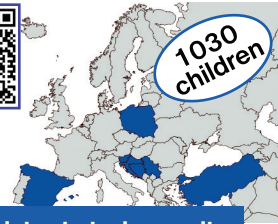
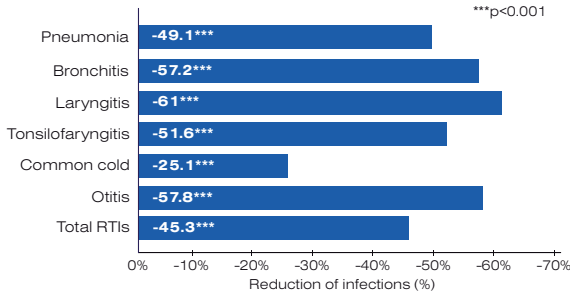


Adapted according to: Covian C., et al. BCG-Induced Cross-Protection and Development of Trained Immunity: Implication for Vaccine Design. *Front Immunol* 2019; 10:2806.

# IMMUNE SYSTEM AND RESPIRATORY TRACT INFECTIONS (RTIs)



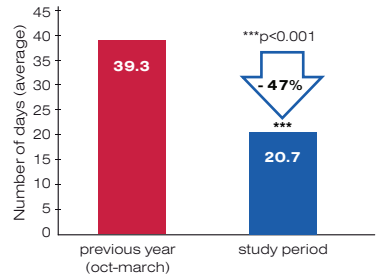
# RECURRENT RESPIRATORY TRACT INFECTIONS IN CHILDREN



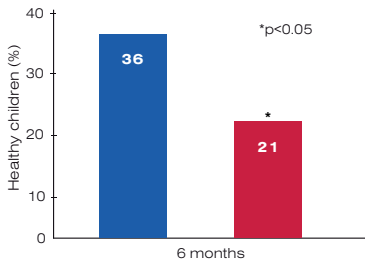
Consistent study results in 7 European countries

94% parents reported improvement of clinical health status of their

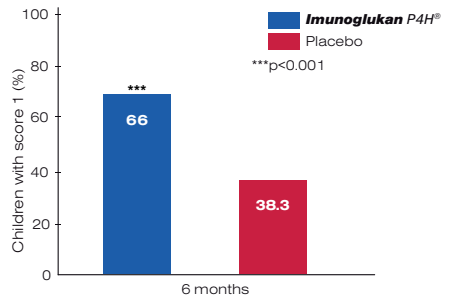
↓ number and duration of upper and lower RTIs



Rennerova Z., et al. Beta-(1,3/1,6)-D-glucan from *Pleurotus ostreatus* in the prevention of recurrent respiratory tract infections: An international, multicentre, open-label, prospective study. *Front Pediatr* 2022; 10:999701.



↑ number of healthy children

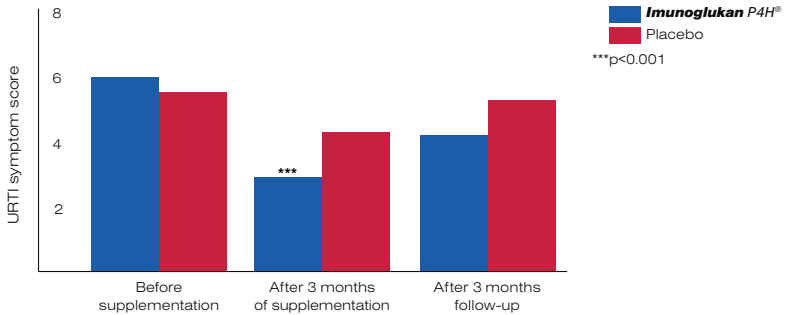


↑ objective treatment efficacy evaluation by physician

Excellent safety profile and tolerability after 6 months supplementation (without risk of overstimulation of the immune system, safe for patients with diabetes and allergies)

Jesenak M., et al. Immunomodulatory effect of pleuran ( $\beta$ -glucan from *Pleurotus ostreatus*) in children with recurrent respiratory tract infections. *Int Immunopharmacol* 2013; 15(2):395-399.

# RESPIRATORY TRACT INFECTIONS IN ADULTS



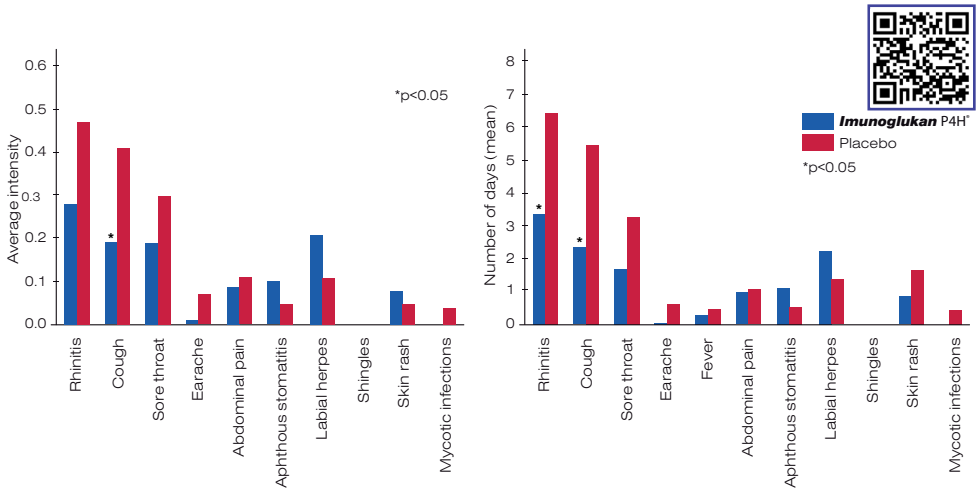
↓ incidence of respiratory symptoms

↓ immunosuppression after intensive physical training

Normalization of immune parameters  
(number and activity of NK cells, phagocytic activity)

Safe immunomodulation in healthy subjects

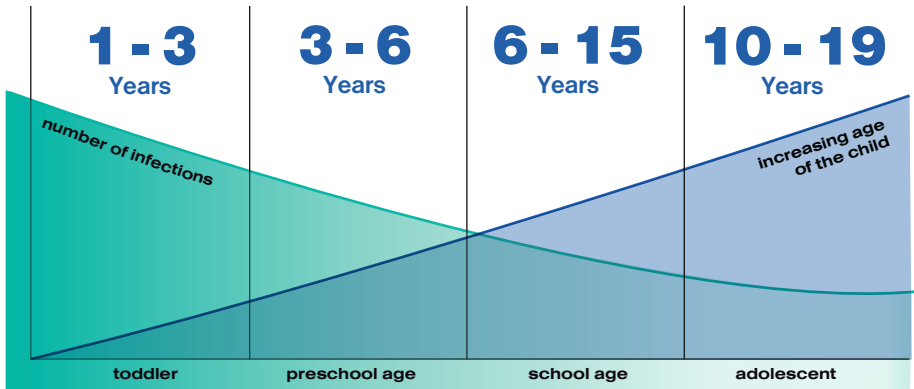
Bobovcak M., et al. Effect of Pleuran ( $\beta$ -glucan from *Pleurotus ostreatus*) supplementation on cellular immune response after intensive exercise in elite athletes. *Appl Physiol Nutr Metab* 2010; 35(6):755-62.  
 Bergendiova K., et al. Pleuran ( $\beta$ -glucan from *Pleurotus ostreatus*) supplementation, cellular immune response and respiratory tract infections in athletes. *Eur J Appl Physiol* 2011; 111(9):2033-40.



↓ intensity and duration of acute respiratory symptoms  
(rhinitis, cough, sore throat)

Urbancikova I., et al. Efficacy of pleuran ( $\beta$ -glucan from *Pleurotus ostreatus*) in the management of herpes simplex virus type 1 infection. *Evid Based Complement Alternat Med* 2020; 2020:8562309.

# PHYSIOLOGICAL RESPIRATORY MORBIDITY



6 - 8 RTIs / year

younger children  
(1-5 years)

2 - 4 RTIs / year

older children (6-12 years)  
adolescents, adults

*Jesenak M., Rennerova Z., Banovcin P. et al. Recurrent Respiratory Tract Infections and Immunomodulation in children. Praha: Mlada Fronta, 1. edition, 2012, 632pp.*

<b>Preventive dosage</b> (at least for 3 months / autumn, winter, spring)	 1 ml / 5 kg	 1 capsule once a day
<b>Dosage during increased demands</b> (physical and mental stress)	 2 ml / 5 kg	 2-3 capsules 1x day

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LONG-TERM USE