

Final report

Control of the efficacy of the wearable
air purifier Respiray Wear A+ in allergic
rhinitis caused by birch pollen

Respiray OÜ

Respiray Wear A+

1. General information

1.1 Confidentiality notice

The contents of the protocol are to be treated confidentially and may not be passed on to uninvolved parties, either verbally or in writing, without the consent of Respiray and ECARF Institute GmbH

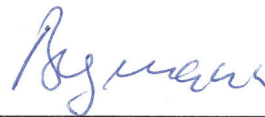
1.2 Responsibilities

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Berlin, 16 December 2022

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4. Results and Clinical Implications

For people suffering from pollen allergy, it is interesting to know whether wearing a wearable air purifier also protects against pollen and thus avoids medical complaints even without medication. A majority of hay-fever sufferers always ask their physician “what can I do beside taking drugs?”. Two recent international publications summarize the few evaluated options to do so and it becomes clear from the publications that there are only a few non-drug methods of protection against pollen that have been scientifically proven and were successful. Among these the Respiray Wear A+ is now one of the best methods.

To evaluate such an “anti-pollen effect”, 23 adults with confirmed allergic rhinoconjunctivitis were exposed to birch pollen outside the birch pollen season in an exposure chamber for 60 minutes in a standardized manner with and without the device.

Wearing the Respiray Wear A+ leads to a significant reduction in Total Symptom Score (>50%), including nasal and conjunctival symptoms in subjects with an allergic rhinoconjunctivitis due to (birch) pollen. The 60% reduction in nasal symptoms is particularly remarkable because nasal symptoms are the most debilitating symptoms. About 80% of patients report eye problems; these symptoms are also reduced by approx. 40%. Therefore, the Well-being is supported during pollen exposure.

Very interesting is the lower incidence of delayed reactions after using Respiray Wear A+ compared to pollen exposure without the Respiray device. The occurrence of allergic asthma caused by pollen is promoted by the onset of delayed reactions and these should therefore be avoided as far as possible.

The study makes it clear that people with a pollen allergy, experience a significant benefit from using the Respiray Wear A+ even without any drug therapy; this is also the case on days with a heavy pollen load. During the provocations, the subjects were exposed to high doses of birch pollen.

Wearing the Respiray Wear A+ during the pollen season can be recommended from a medical point of view as an effective non-drug option for those allergic to pollen.