

Efficient Elimination of Common Allergens through the Application of Dry Microfine Steam on Innate Surfaces

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Abstract : Dry microfine steam (DMS) technology, developed by Laurastar, was shown to effectively eliminate a range of pathogens such as Sars-CoV-2, E. coli, S. aureus and C. Albicans. The aim of this study was to investigate the effect of DMS technology on allergens. Therefore, the application of the DMS technology was tested on two common allergens (Dermatophagoides pteronyssinus and cat allergen Fel d 1), on different inert surfaces (e.g., cotton), during 2 to 3 seconds. Quantification of the remaining allergens was performed and the reduction rates reached 100% in 3 seconds for D. pteronyssinus and 97,74% in 2 seconds for cat allergens. In conclusion, DMS showed high efficacy in the elimination of common allergens and could be seen as a natural solution to improve domestic hygiene and reduce allergies.

Keywords : steam, allergens, dust mites, pollens

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